

**All of the differential methylation of overlaps between B (pericarcinous tissues) vs. C(pancreatic cancer tissue) and A (blood) vs. B (pericarcinous tissues)**

UCSC_refgene names	UCSC_refgene accession	Names	Strand	UCSC_refgene group	TargetID
KLHL29	NM_052920	cg00000807F	Body		cg00000807
ETV6	NM_001987	cg00001793F	Body		cg00001793
CHCHD4;TMEM43;CHCHN	NM_001098502;NM_024334	cg00003173F	TSS1500;Body;TSS1500		cg00003173
EIF4A1;SENP3	NM_001416;NM_015670	cg00004421R	TSS1500;3'UTR		cg00004421
NTRK1;INSRR	NM_001007792;NM_014215	cg00008446F	Body;Body		cg00008446
TSHR	NM_000369	cg00010242F	Body	cg00010242	cg00010672R
NCL;SNORA75;SNORD20	NM_005381;NR_002921;NR	cg00010789F	Body;TSS1500;TSS200	cg00010789	
CCDC62;CCDC62;CCDC6	NM_201435;NR_027918;NM	cg00013441R	TSS200;TSS200;TSS200	cg00013441	cg00015699R
CAGE1;CAGE1;CAGE1	NM_001170692;NM_205864	cg00016802F	Body;Body;Body	cg00016802	cg00018845R
MYBL1;MYBL1	NM_001080416;NM_001144	cg00021237F	TSS1500;TSS1500	cg00021237	
TFAP4	NM_003223	cg00021532F	TSS1500	cg00021532	
TBC1D20	NM_144628	cg00022606F	Body	cg00022606	
CCDC88B	NM_032251	cg00022866F	Body	cg00022866	cg00025155R
		cg00026075F		cg00026075	
UBTF;UBTF;UBTF	NM_001076683;NM_001076	cg00026974R	1stExon;TSS1500;5'UTR	cg00026974	
ITPKB	NM_002221	cg00027637F	Body	cg00027637	
KCNK17;KCNK17	NM_031460;NM_001135111	cg00029521R	Body;Body	cg00029521	cg00029583R
RNF207	NM_207396	cg00030047R	Body	cg00030047	
ATPIF1;ATPIF1;ATPIF1	NM_016311;NM_178190;NM	cg00033102R	TSS1500;TSS1500;TSS1	cg00033102	
SENP2	NM_021627	cg00033304F	TSS1500	cg00033304	cg00036976F
CABC1	NM_020247	cg00038877F	Body	cg00038877	
ABCA3	NM_001089	cg00039478R	Body	cg00039478	
COL23A1	NM_173465	cg00039864R	Body	cg00039864	
SIAH1	NM_003031	cg00041311F	5'UTR	cg00041311	
C16orf75	NM_152308	cg00044050R	Body	cg00044050	
ADAR	NM_001025107	cg00048381F	5'UTR	cg00048381	
CASP1;CASP1;CASP1;CAN	NM_001223;NM_033292;NM	cg00051623F	Body;Body;Body;Body;B	cg00051623	
ZNF627	NM_145295	cg00052561R	Body	cg00052561	
CROCC	NM_014675	cg00053536R	Body	cg00053536	cg00054771R
RIMBP2	NM_015347	cg00055764F	Body	cg00055764	cg00059652F

RB1	NM_000321	cg00059930R	Body	cg00059930	
EIF2S3	NM_001415	cg00060882F	TSS1500	cg00060882	
PTPN14	NM_005401	cg00063699F	Body	cg00063699	
FAM159A	NM_001042693	cg00065957R	Body	cg00065957	
ATP6V1B1	NM_001692	cg00067528F	Body	cg00067528	cg00069969F
ENOX1;ENOX1	NM_017993;NM_001127615	cg00070529R	Body;Body	cg00070529	
ANKRD36B	NM_025190	cg00071045F	TSS1500	cg00071045	
HOOK2;HOOK2	NM_001100176;NM_013312	cg00072407F	TSS1500;TSS1500	cg00072407	
WDR76;WDR76	NM_024908;NM_001167941	cg00074771F	Body;Body	cg00074771	

ADARB2	NM_018702	cg00075956F cg00078025R cg00079477F	Body	cg00075956 cg00078025 cg00079477
KCNJ12	NM_021012	cg00079485F cg00080252R	3'UTR	cg00079485 cg00080252
METTTL5	NM_014168	cg00081046F cg00081439F	Body	cg00081046 cg00081439
TSNARE1	NM_145003	cg00084202F	Body	cg00084202
RIPK4	NM_020639	cg00085061R	Body	cg00085061
RAB40C	NM_021168	cg00086809R	1stExon	cg00086809
SDHA	NM_004168	cg00089430R	Body	cg00089430
TMEM125	NM_144626	cg00090197F cg00090612R cg00094734F cg00095431F	Body	cg00090197 cg00090612 cg00094734 cg00095431
PRKCZ;PRKCZ	NM_001033581;NM_002744	cg00095688R	TSS1500;Body	cg00095688
KIAA1012	NM_014939	cg00098280F	TSS1500	cg00098280
LOC729678	NR_027183	cg00106989F	Body	cg00106989
SLITRK5	NM_015567	cg00109076F	Body	cg00109076
LDB3;LDB3;LDB3;LDB3;	NM_001171611;NM_001080	cg00109451F	Body;Body;Body;Body;B	cg00109451
KIAA1199	NM_018689	cg00110041F	5'UTR	cg00110041
PIGV	NM_017837	cg00114008R	TSS200	cg00114008
ADAMTS6	NM_197941	cg00114618R cg00116092R cg00116558F	Body	cg00114618 cg00116092 cg00116558
PXDNL	NM_144651	cg00118363F cg00119986F cg00120783F	Body	cg00118363 cg00119986 cg00120783
CLSTN1;CLSTN1	NM_014944;NM_001009566	cg00123104R	TSS200;TSS200	cg00123104
PPAP2A;PPAP2A	NM_176895;NM_003711	cg00126995R cg00127505R	Body;Body	cg00126995 cg00127505
C8orf79;C8orf79;C8orf79	NM_020844;NM_001099677	cg00137745F	Body;1stExon;5'UTR	cg00137745
PMEPA1;PMEPA1;PMEPANM_199169;NM_199170;NM_		cg00138126F cg00138804F	TSS1500;TSS1500;TSS2	cg00138126 cg00138804
EEA1	NM_003566	cg00140235R cg00142155F	TSS200	cg00140235 cg00142155
PLXNB2	NM_012401	cg00143809F cg00144039F	Body	cg00143809 cg00144039
TTYH3	NM_025250	cg00145404R cg00145915F cg00147578R cg00151191F	Body	cg00145404 cg00145915 cg00147578 cg00151191
PLCE1	NM_016341	cg00151491F	5'UTR	cg00151491
HERC2	NM_004667	cg00155844R	Body	cg00155844
EYA4;EYA4;EYA4	NM_172105;NM_172103;NM_	cg00156497F	Body;Body;Body	cg00156497
IGF2BP1;IGF2BP1	NM_006546;NM_001160423	cg00158333R	Body;Body	cg00158333
ANGPT2;ANGPT2;ANGP	NM_001118888;NM_001147	cg00159682F	Body;Body;Body;Body	cg00159682
CHP2	NM_022097	cg00160777R	TSS1500	cg00160777
CCHCR1;TCF19;CCHCR1	NM_001105564;NM_007109	cg00160818F	TSS1500;1stExon;TSS1	cg00160818
UBE2F	NM_080678	cg00161515F cg00162952R	3'UTR	cg00161515 cg00162952
USP24	NM_015306	cg00164894F	Body	cg00164894
EPHA8;EPHA8	NM_001006943;NM_020526	cg00165619F	Body;Body	cg00165619
C20orf43	NM_016407	cg00166770R	TSS1500	cg00166770

MAP3K7IP2;SUMO4	NM_015093;NM_001002255	cg00166836F	Body;TSS200	cg00166836
NR2E1	NM_003269	cg00170003R	Body	cg00170003
CDRT15P	NR_003261	cg00170799R	Body	cg00170799
SNORA10;RPS2	NR_002327;NM_002952	cg00175153R	TSS1500;Body	cg00175153
		cg00176896R		cg00176896
		cg00178785F		cg00178785
C4orf49	NM_032623	cg00178864F	TSS200	cg00178864
TK2	NM_004614	cg00187129R	Body	cg00187129
EP300	NM_001429	cg00187244F	Body	cg00187244
TAGAP;TAGAP;TAGAP	NM_152133;NM_138810;NM_138810	cg00187889F	5'UTR;Body;Body	cg00187889
MCM5	NM_006739	cg00199549F	TSS1500	cg00199549
RP1	NM_006269	cg00202568R	TSS1500	cg00202568
		cg00203736F		cg00203736
HS3ST3A1	NM_006042	cg00203913F	TSS1500	cg00203913
		cg00206356R		cg00206356
PPY2	NR_002181	cg00206553F	TSS1500	cg00206553
FURIN	NM_002569	cg00207731R	5'UTR	cg00207731
NCRNA00164	NR_027020	cg00207855R	Body	cg00207855
C4orf49	NM_032623	cg00208504R	Body	cg00208504
		cg00209563F		cg00209563
		cg00209612F		cg00209612
C20orf123	NM_080721	cg00214504R	3'UTR	cg00214504
TAF11;TAF11;ANKS1A	NM_005643;NM_005643;NM_005643	cg00215801F	1stExon;5'UTR;TSS1500	cg00215801
		cg00217080R		cg00217080
MIR375	NR_029867	cg00218620F	TSS200	cg00218620
MGAT1;MGAT1	NM_001114617;NM_001114	cg00218649F	TSS1500;TSS1500	cg00218649
RABEP2	NM_024816	cg00219653F	TSS1500	cg00219653
		cg00219763R		cg00219763
ZNF629	NM_001080417	cg00219956R	Body	cg00219956
C1GALT1;C1GALT1	NM_020156;NM_020156	cg00221035F	1stExon;5'UTR	cg00221035
		cg00223042F		cg00223042
FGD2	NM_173558	cg00226923F	TSS1500	cg00226923
KLHL30	NM_198582	cg00226984F	TSS200	cg00226984
		cg00228118R		cg00228118
CDC42SE2;CDC42SE2	NM_001038702;NM_020240	cg00231006R	TSS200;TSS200	cg00231006
GPX6	NM_182701	cg00232675R	Body	cg00232675
ATF6B;ATF6B	NM_004381;NM_001136153	cg00232996F	Body;Body	cg00232996
TRIM56	NM_030961	cg00234294R	Body	cg00234294
		cg00237026R		cg00237026
		cg00238038F		cg00238038
ARAP1	NM_001040118	cg00242341F	5'UTR	cg00242341
PSMD9	NM_002813	cg00243897R	TSS200	cg00243897
SCYL2;DEPDC4	NM_017988;NM_152317	cg00244634R	TSS200;TSS1500	cg00244634
FMN2	NM_020066	cg00245492F	Body	cg00245492
		cg00247892R		cg00247892
DNAH17	NM_173628	cg00249503F	Body	cg00249503
SCT;SCT	NM_021920;NM_021920	cg00249511R	5'UTR;1stExon	cg00249511
ST5;ST5;ST5	NM_213618;NM_139157;NM_139157	cg00249584F	TSS1500;TSS200;5'UTR	cg00249584
TMEM79;TMEM79;TMEM79	NM_032323;NR_026678;NM_032323	cg00249974R	1stExon;Body;5'UTR	cg00249974
PRDM16;PRDM16	NM_022114;NM_199454	cg00251678R	Body;Body	cg00251678
KLF5;KLF5	NM_001730;NM_001730	cg00252332R	5'UTR;1stExon	cg00252332
CHD5	NM_015557	cg00252804F	Body	cg00252804
ARHGAP24;ARHGAP24	NM_001025616;NM_001042	cg00258633R	Body;5'UTR	cg00258633
		cg00258805F		cg00258805



RPP21	NM_024839	cg00258873R	TSS1500	cg00258873
PRR3;GNL1;PRR3;GNL1	NM_025263;NM_005275;NM_00260647F	cg00260647F	TSS1500;5'UTR;TSS1500	cg00260647
SEC16A	NM_014866	cg00261144R	Body	cg00261144
		cg00269725F		cg00269725
CNTF;ZFP91-CNTF	NM_000614;NR_024091	cg00271311F	TSS1500;Body	cg00271311
RBBP9	NM_006606	cg00273813R	TSS200	cg00273813
PUF60;PUF60	NM_078480;NM_014281	cg00274357R	TSS1500;TSS1500	cg00274357
		cg00280177R		cg00280177
TERF2IP;KARS;KARS	NM_018975;NM_001130089	cg00281153F	Body;TSS1500;TSS1500	cg00281153
B3GALT1	NM_020981	cg00282195F	TSS1500	cg00282195
KIAA1688	NM_025251	cg00282216F	Body	cg00282216
		cg00282370F		cg00282370
LOC440910	NR_030728	cg00283030F	Body	cg00283030
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg00285294R	Body;Body;Body	cg00285294
		cg00286853F		cg00286853
MEST;MEST;MEST;MEST	NM_002402;NM_177524;NM_00286878F	cg00286878F	TSS1500;5'UTR;5'UTR;5'UTR	cg00286878
DMRT2;DMRT2;DMRT2	NM_001130865;NM_006557	cg00290086R	5'UTR;5'UTR;5'UTR	cg00290086
		cg00290627F		cg00290627
		cg00291051R		cg00291051
RP1L1	NM_178857	cg00291316F	Body	cg00291316
DENND3	NM_014957	cg00292087F	TSS200	cg00292087
		cg00294848F		cg00294848
		cg00296348R		cg00296348
ESPN	NM_031475	cg00297432R	TSS200	cg00297432
NSMCE2	NM_173685	cg00297966R	Body	cg00297966
SETMAR;SETMAR	NM_006515;NR_024022	cg00300090R	1stExon;TSS200	cg00300090
PCLO;PCLO	NM_014510;NM_033026	cg00301256F	Body;Body	cg00301256
		cg00303183F		cg00303183
		cg00303606R		cg00303606
MPV17L2	NM_032683	cg00303723F	Body	cg00303723
SFRS11	NM_004768	cg00306426F	Body	cg00306426
		cg00307066R		cg00307066
SRP9;SRP9	NM_003133;NM_001130440	cg00311360F	Body;3'UTR	cg00311360
		cg00316520R		cg00316520
EFCAB2;EFCAB2;EFCAB2	NR_026587;NM_001143943;cg00317754R	cg00317754R	Body;Body;Body	cg00317754
MCF2L;MCF2L	NM_001112732;NM_024979	cg00317886F	3'UTR;3'UTR	cg00317886
CRB1	NM_201253	cg00321478F	Body	cg00321478
MASP1;MASP1;MASP1	NM_139125;NM_001879;NM_00321638R	cg00321638R	Body;Body;Body	cg00321638
		cg00321838F		cg00321838
		cg00324438F		cg00324438
FAM113A;VPS16;VPS16	NM_022760;NM_022575;NM_00324693F	cg00324693F	TSS200;TSS200;TSS200	cg00324693
TAF4	NM_003185	cg00328497F	Body	cg00328497
ATP6V1H;ATP6V1H;ATP6V1H	NM_213619;NM_015941;NM_00328523R	cg00328523R	Body;Body;Body	cg00328523
		cg00333020R		cg00333020
		cg00333679F		cg00333679
		cg00333800F		cg00333800
GABRG3	NM_033223	cg00336555R	Body	cg00336555
HNRNPM;HNRNPM	NM_005968;NM_031203	cg00337957R	Body;Body	cg00337957
ARL13B;ARL13B	NM_182896;NM_144996	cg00338852F	3'UTR;3'UTR	cg00338852
ZNF236	NM_007345	cg00340928F	Body	cg00340928
		cg00341522R		cg00341522
VWA3A	NM_173615	cg00343305F	Body	cg00343305
SGK3	NM_001033578	cg00345314F	TSS1500	cg00345314
SAAL1	NM_138421	cg00345366F	TSS1500	cg00345366

EPS8;EPS8	NM_004447;NM_004447	cg00345425R		cg00345425
CSMD1	NM_033225	cg00346556F	5'UTR;1stExon	cg00346556
LOC100294362	NR_029376	cg00347056R	Body	cg00347056
PTCD3	NM_017952	cg00350362F	Body	cg00350362
UNKL	NM_001037125	cg00350932F	Body	cg00350932
ATXN3;ATXN3;ATXN3;ANM_001164777;NM_030660		cg00353643F	Body	cg00353643
MIR1976;RPS6KA1;RPS6	NR_031740;NM_001006665;cg00355673R		TSS200;TSS200;TSS200	cg00355673
BOLL;BOLL	NM_033030;NM_197970	cg00359365F	TSS1500;Body;Body	cg00359365
HTR3A;HTR3A	NM_213621;NM_000869	cg00361562R	5'UTR;Body	cg00361562
MIR527	NR_030219	cg00363114F	TSS1500;TSS1500	cg00363114
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_00366594R		TSS1500	cg00366594
LMF1	NM_022773	cg00369443R	Body;Body;Body	cg00369443
ABC9;ABC9;ABC9;A	NM_203444;NM_019624;NM_00375444F		Body	cg00375444
TYSND1;TYSND1	NM_001040273;NM_173555	cg00375939R		cg00375939
		cg00376283R	5'UTR;1stExon;5'UTR;5	cg00376283
		cg00377169R	1stExon;1stExon	cg00377169
		cg00378007R		cg00378007
		cg00379272R		cg00379272
EIF4ENIF1;EIF4ENIF1;EIF4ENIF1	NM_001164501;NM_001164	cg00380150F	TSS1500;5'UTR;1stExon	cg00380150
FAM92B	NM_198491	cg00381442F	TSS200	cg00381442
		cg00382930R		cg00382930
TMEM50B	NM_006134	cg00385063R	TSS200	cg00385063
LENG9	NM_198988	cg00387156F	TSS200	cg00387156
FOXP4;FOXP4;FOXP4	NM_001012427;NM_001012	cg00387170R	TSS200;TSS200;TSS200	cg00387170
		cg00387872F		cg00387872
		cg00388262F		cg00388262
		cg00388732F		cg00388732
ICAM4;ICAM4;ICAM4	NM_001544;NM_022377;NM_00389463R		TSS200;TSS200;TSS200	cg00389463
		cg00389785F		cg00389785
ACAD10;ACAD10	NM_025247;NM_001136538	cg00391320F	5'UTR;5'UTR	cg00391320
DDA1;DDA1	NM_024050;NM_024050	cg00394214R	5'UTR;1stExon	cg00394214
		cg00394718F		cg00394718
CCDC129	NM_194300	cg00397871F	3'UTR	cg00397871
SMAD4	NM_005359	cg00400189F	5'UTR	cg00400189
		cg00402551F		cg00402551
KCNMA1;KCNMA1;KCNMA1	NM_001161353;NM_001161	cg00404436R	Body;Body;Body;Body	cg00404436
FAT1	NM_005245	cg00405769F	Body	cg00405769
NOTCH1	NM_017617	cg00407944R	Body	cg00407944
		cg00408678R		cg00408678
		cg00415763F		cg00415763
		cg00416945R		cg00416945
PROX1	NM_002763	cg00417025R	Body	cg00417025
		cg00417719R		cg00417719
INTS1	NM_001080453	cg00417963R	Body	cg00417963
		cg00421612F		cg00421612
SLC27A3	NM_024330	cg00421624R	TSS1500	cg00421624
HMGCS1;HMGCS1	NM_002130;NM_001098272	cg00421645R	5'UTR;5'UTR	cg00421645
ARL15	NM_019087	cg00421815F	Body	cg00421815
PGR	NM_000926	cg00424740R	Body	cg00424740
		cg00426200R		cg00426200
		cg00427986R		cg00427986
ZNF384;ZNF384;ZNF384;ZNF384	NM_001039916;NM_001039	cg00429477R	TSS1500;TSS1500;TSS1500	cg00429477
SLC35D2	NM_007001	cg00430036R	Body	cg00430036
RRS1;RRS1	NM_015169;NM_015169	cg00432041R	5'UTR;1stExon	cg00432041

CLDN15	NM_014343	cg00432937F	Body	cg00432937
CDH15	NM_004933	cg00435723R	Body	cg00435723
ERCC3	NM_000122	cg00436174F	1stExon	cg00436174
LOC400927	NR_002821	cg00436663F	Body	cg00436663
KCNJ6	NM_002240	cg00437173F	Body	cg00437173
HLA-DRB5	NM_002125	cg00440797R	Body	cg00440797
PAFAH1B1	NM_000430	cg00441709R	5'UTR	cg00441709
PTK2;PTK2	NM_153831;NM_005607	cg00444581R	Body;Body	cg00444581
		cg00445013F		cg00445013
		cg00445254R		cg00445254
SDC2	NM_002998	cg00446722F	Body	cg00446722
PTPRE	NM_006504	cg00446900F	5'UTR	cg00446900
SIGLEC7;SIGLEC7	NM_016543;NM_014385	cg00447110R	TSS200;TSS200	cg00447110
TMEM177;TMEM177;TMEM177	NM_001105199;NM_030577	cg00447867F	5'UTR;5'UTR;5'UTR	cg00447867
NARG2;NARG2	NM_001018089;NM_024611	cg00448889F	3'UTR;3'UTR	cg00448889
HMHA1	NM_012292	cg00450695F	Body	cg00450695
GTF2A1L;GTF2A1L;STO	NM_172196;NM_006872;NM_006872	cg00451397F	TSS1500;TSS1500;Body	cg00451397
PPP4R2	NM_174907	cg00455883R	TSS200	cg00455883
TUBA3D	NM_080386	cg00455892F	Body	cg00455892
NKX2-8	NM_014360	cg00456637R	Body	cg00456637
SPTY2D1	NM_194285	cg00457155F	TSS1500	cg00457155
AMZ1	NM_133463	cg00458156F	TSS1500	cg00458156
INPP5A	NM_005539	cg00458454R	Body	cg00458454
		cg00459550F		cg00459550
CDH23;CDH23	NM_052836;NM_022124	cg00462411F	Body;Body	cg00462411
BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_006340	cg00464773F	Body;Body;Body;Body	cg00464773
		cg00465137R		cg00465137
PMEPA1;PMEPA1;PMEP	NM_199171;NM_020182;NM_020182	cg00466301F	5'UTR;TSS1500;5'UTR;	cg00466301
TBX15	NM_152380	cg00466334F	TSS1500	cg00466334
DDR1;DDR1;DDR1;DDR1	NM_013994;NM_013994;NM_013994;NM_013994	cg00466425F	5'UTR;1stExon;5'UTR;5	cg00466425
SH2D1A;SH2D1A	NM_001114937;NM_002351	cg00467547R	1stExon;1stExon	cg00467547
KIF18A	NM_031217	cg00468091F	Body	cg00468091
		cg00469264F		cg00469264
		cg00469602F		cg00469602
C6orf167;MIR548H3;C6orf	NM_198468;NR_031679;NM_198468	cg00472393F	5'UTR;Body;1stExon	cg00472393
ASCC3;ASCC3	NM_006828;NM_022091	cg00472445F	TSS200;TSS200	cg00472445
TAF2	NM_003184	cg00473045F	Body	cg00473045
MFSD5;MFSD5;MFSD5	NM_032889;NM_001170790	cg00474734R	1stExon;Body;5'UTR	cg00474734
		cg00476896F		cg00476896
SPDYC	NM_001008778	cg00477365F	TSS1500	cg00477365
RNASE10	NM_001012975	cg00478884R	1stExon	cg00478884
SERINC4;C15orf63	NM_001033517;NM_016400	cg00480356R	TSS1500;1stExon	cg00480356
		cg00480481F		cg00480481
SDCBP2;SDCBP2	NM_015685;NM_080489	cg00480698R	Body;Body	cg00480698
ABLIM2;ABLIM2;ABLIM	NM_032432;NM_001130083	cg00484466R	Body;Body;Body;Body;B	cg00484466
GABPB1;GABPB1;GABPB	NM_002041;NM_016655;NM_016655	cg00484555R	1stExon;5'UTR;5'UTR;B	cg00484555
ONECUT1	NM_004498	cg00488788F	Body	cg00488788
USP20;USP20;USP20	NM_001008563;NM_001110	cg00488842R	Body;Body;Body	cg00488842
		cg00490075R		cg00490075
CBFA2T3	NM_005187	cg00492741F	Body	cg00492741
GDF2	NM_016204	cg00495658R	TSS1500	cg00495658
LPCAT2	NM_017839	cg00495811F	3'UTR	cg00495811
CENPT;THAP11	NM_025082;NM_020457	cg00496272F	5'UTR;1stExon	cg00496272
LMF1	NM_022773	cg00498059F	TSS200	cg00498059

PRKCA	NM_002737	cg00498360R	Body	cg00498360
LOC728855	NR_024510	cg00499509R	Body	cg00499509
CXCL12;CXCL12;CXCL12	NM_000609;NM_001033886	cg00499822F	TSS1500;TSS1500;TSS1500	cg00499822
WFDC2	NM_006103	cg00500048R	TSS1500	cg00500048
LTA;LTA	NM_000595;NM_001159740	cg00501919R cg00502963R	Body;Body	cg00501919 cg00502963
AGPAT3;AGPAT3	NM_020132;NM_001037553	cg00504226F	5'UTR;TSS1500	cg00504226
SDHAP1	NR_003264	cg00504248R	Body	cg00504248
TSPYL6;ACYP2	NM_001003937;NM_138448	cg00508817R	1stExon;Body	cg00508817
LOC144776	NR_027039	cg00509057R	Body	cg00509057
MT1A	NM_005946	cg00509108F	TSS1500	cg00509108
SAC3D1	NM_013299	cg00509451F cg00510948F	Body	cg00509451 cg00510948
C7orf50;C7orf50;MIR339;C7orf50	NM_001134395;NM_032350	cg00511027R	Body;Body;TSS1500;Body	cg00511027
FBXO31;FBXO31	NR_024568;NM_024735	cg00512563R	Body;Body	cg00512563
CYTH3	NM_004227	cg00512872F cg00512917F cg00513984F	Body	cg00512872 cg00512917 cg00513984
CTGF	NM_001901	cg00516030F	TSS1500	cg00516030
ICMT	NM_012405	cg00518190F	Body	cg00518190
RCBTB1	NM_018191	cg00521048F cg00524561R	TSS200	cg00521048 cg00524561
FAM78A	NM_033387	cg00524964F	3'UTR	cg00524964
C5orf37;C5orf37	NM_001099271;NM_001099	cg00529697F	5'UTR;1stExon	cg00529697
DGKZ;DGKZ;DGKZ	NM_201533;NM_003646;NM_003646	cg00530720R	Body;TSS1500;Body	cg00530720
SCARB1;SCARB1;SCARB1	NM_005505;NM_005505;NM_005505	cg00531400R cg00533827F	1stExon;5'UTR;1stExon;	cg00531400 cg00533827
CACNA1H;CACNA1H	NM_021098;NM_001005407	cg00535576F cg00536745F	Body;Body	cg00535576 cg00536745
NELF;NELF;NELF;NELF	NM_001130969;NM_015537	cg00537820R cg00540464R	Body;Body;Body;Body	cg00537820 cg00540464
TSPY4	NM_001164471	cg00543493R	Body	cg00543493
TMEM167A	NM_174909	cg00544914F	3'UTR	cg00544914
NUCKS1	NM_022731	cg00547768R	Body	cg00547768
ZNF20	NM_021143	cg00550498F cg00552753R	TSS200	cg00550498 cg00552753
DAZAP2;DAZAP2;DAZAP2	NM_001136266;NM_001136	cg00554948F	TSS1500;TSS1500;TSS1500	cg00554948
MARCKSL1	NM_023009	cg00556029R	TSS200	cg00556029
PLCD1;PLCD1;PLCD1	NM_001130964;NR_024071;	cg00556514R cg00559001R	TSS1500;TSS1500;Body	cg00556514 cg00559001
VGLL4;VGLL4	NM_014667;NM_001128219	cg00559439F	Body;Body	cg00559439
CA14	NM_012113	cg00561287R cg00563031F	TSS200	cg00561287 cg00563031
BAHCC1	NM_001080519	cg00563061R	Body	cg00563061
TINAGL1	NM_022164	cg00565263R	Body	cg00565263
MLLT11;CDC42SE1;MLLT11	NM_006818;NM_001038707	cg00569385F	5'UTR;TSS1500;1stExon	cg00569385
GPSM3	NM_022107	cg00569673R	5'UTR	cg00569673
USH1C;USH1C	NM_153676;NM_005709	cg00570628R cg00572146R cg00572966F cg00574251F	Body;Body	cg00570628 cg00572146 cg00572966 cg00574251
EFEMP1;EFEMP1;EFEMP1	NM_004105;NM_001039349	cg00574639R cg00574742F	Body;Body;Body	cg00574639 cg00574742
ESRRG;ESRRG;ESRRG	NM_206594;NM_206595;NM_206595	cg00575003R	5'UTR;5'UTR;5'UTR	cg00575003

MAFB;MAFB IGFN1	NM_005461;NM_005461 NM_001164586	cg00575665R cg00578673R cg00583731R	3'UTR;1stExon Body	cg00575665 cg00578673 cg00583731
CDK2AP1 FAM65A	NM_004642 NM_024519	cg00585698F cg00586537R	Body 5'UTR	cg00585698 cg00586537
LOC55908;DOCK6 APOC1P1;APOC1P1;APOC1P1	NM_018687;NM_020812 NR_028413;NR_028414;NR_028414	cg00586551R cg00587465R cg00589305R	TSS1500;Body TSS200;TSS200;TSS200	cg00586551 cg00587465 cg00589305
SV2C PBX4 PTDSS2	NM_014979 NM_025245 NM_030783	cg00590173R cg00591868R cg00593699F cg00595787R	Body Body Body	cg00590173 cg00591868 cg00593699 cg00595787
CIR1;SCRN3 C19orf28;C19orf28;C19orf28 LOC641518;LOC641518	NM_004882;NM_024583 NM_021731;NM_001042680 NR_029373;NR_029374	cg00596521R cg00597087F cg00597801F cg00600362R	TSS200;5'UTR 1stExon;1stExon;5'UTR; TSS1500;Body	cg00596521 cg00597087 cg00597801 cg00600362
ZEB2;ZEB2;ZEB2	NR_033258;NM_014795;NM_014795	cg00602811F cg00606902R cg00609367R cg00611818F	TSS1500;TSS1500;TSS1500	cg00602811 cg00606902 cg00609367 cg00611818
SKI	NM_003036	cg00618291R cg00619292R cg00620304R	Body	cg00618291 cg00619292 cg00620304
STK19;STK19;STK19;DO MEOX1;MEOX1;MEOX1 RPIL1 SHISA6 MKL2	NR_026717;NM_032454;NM_032454 NM_013999;NM_001040002 NM_178857 NM_207386 NM_014048	cg00620476F cg00620733F cg00622658F cg00627045F cg00635599R cg00636508R	TSS1500;TSS1500;TSS1500 Body;Body;Body Body Body 5'UTR	cg00620476 cg00620733 cg00622658 cg00627045 cg00635599 cg00636508
SNCAIP ZFP64;ZFP64;ZFP64;ZFP64 RPUSD1;CHTF18 SNORD83B;RPL3;RPL3 PNOC	NM_005460 NM_199426;NM_018197;NM_018197 NM_058192;NM_022092 NR_000028;NM_000967;NM_000967 NM_006228	cg00637695R cg00639361F cg00639984F cg00640609F cg00643296R cg00644033R	Body Body;Body;Body;Body TSS1500;Body TSS1500;Body;Body 5'UTR	cg00637695 cg00639361 cg00639984 cg00640609 cg00643296 cg00644033
KLHL36 SLC2A7 DYDC2	NM_024731 NM_207420 NM_032372	cg00645020R cg00648005R cg00649199R cg00649216F	Body TSS1500 5'UTR	cg00645020 cg00648005 cg00649199 cg00649216
PDIA3;CATSPER2P1	NM_005313;NR_002318	cg00649827F cg00654159R	1stExon;TSS1500	cg00649827 cg00654159
MIR219-2	NR_029837	cg00654637R cg00655525F cg00655656R	TSS1500	cg00654637 cg00655525 cg00655656
SDF4;SDF4	NM_016176;NM_016547	cg00656410R cg00658652R cg00658704R cg00658890F cg00658979F	Body;Body	cg00656410 cg00658652 cg00658704 cg00658890 cg00658979
NSUN5;NSUN5;NSUN5;NSUN5	NM_001168348;NM_148956	cg00664021F cg00664666R	Body;Body;Body;Body	cg00664021 cg00664666
AKAP7;AKAP7;AKAP7 PRKAR1B;PRKAR1B;PRKAR1B TOMM7;TOMM7	NM_016377;NM_004842;NM_004842 NM_001164759;NM_001164759 NM_019059;NM_019059	cg00665374R cg00665482F cg00665832R	3'UTR;3'UTR;3'UTR Body;Body;Body;Body; 1stExon;5'UTR	cg00665374 cg00665482 cg00665832

		cg00666211R		cg00666211
		cg00666623R		cg00666623
FNDC5	NM_153756	cg00668227F	5'UTR	cg00668227
		cg00669390F		cg00669390
		cg00670942F		cg00670942
		cg00673724R		cg00673724
ITIH5;ITIH5;ITIH5;ITIH5	NM_030569;NM_032817;NM_032817;NM_032817	cg00677195R	Body;5'UTR;Body;1stEx	cg00677195
DYSF;DYSF;DYSF;DYSF	NM_001130455;NM_001130455;NM_001130455;NM_001130455	cg00679877R	Body;Body;Body;Body;	cg00679877
NCALD;NCALD;NCALD;NCALD	NM_001040629;NM_001040629;NM_001040629;NM_001040629	cg00680551F	5'UTR;5'UTR;5'UTR;5'UTR	cg00680551
		cg00682053R		cg00682053
EP400NL	NR_003290	cg00687812F	Body	cg00687812
KRTCAP3;NRBP1;KRTCANM_173853;NM_013392;NM_013392;NM_013392	NM_173853;NM_013392;NM_013392;NM_013392	cg00688125R	TSS1500;Body;TSS1500	cg00688125
KBTBD11	NM_014867	cg00688236F	TSS1500	cg00688236
C2orf56;C2orf56	NM_144736;NM_001083946	cg00690903F	Body;Body	cg00690903
TJP2;TJP2;TJP2;TJP2;TJP2	NM_001170414;NM_001170414;NM_001170414;NM_001170414;NM_001170414	cg00695112R	Body;Body;Body;Body;	cg00695112
DPEP2	NM_022355	cg00695633R	5'UTR	cg00695633
SRRM4	NM_194286	cg00700239F	3'UTR	cg00700239
C12orf40	NM_001031748	cg00702369R	Body	cg00702369
		cg00702840R		cg00702840
ZNF611;ZNF611;ZNF611;	NM_001161500;NM_030972	cg00703849F	5'UTR;5'UTR;5'UTR;5'UTR	cg00703849
LOC641367;ZNF100	NR_024523;NM_173531	cg00704626R	TSS200;Body	cg00704626
GRTP1	NM_024719	cg00704869R	Body	cg00704869
LAMA3;LAMA3;LAMA3;	NM_000227;NM_001127718	cg00710229F	1stExon;1stExon;Body;Bc	cg00710229
		cg00710269F		cg00710269
		cg00710456F		cg00710456
ZNF48	NM_152652	cg00711896F	Body	cg00711896
BPTF;BPTF	NM_004459;NM_182641	cg00712547F	TSS200;TSS200	cg00712547
IFITM5	NM_001025295	cg00714343R	TSS1500	cg00714343
SLA2;SLA2	NM_032214;NM_175077	cg00714377R	TSS200;TSS200	cg00714377
PAPOLA	NM_032632	cg00715988R	TSS200	cg00715988
IKZF3;IKZF3;IKZF3;IKZF3	NM_183228;NM_183229;NM_183229;NM_183229	cg00716716F	TSS1500;TSS1500;TSS1500	cg00716716
		cg00719668F		cg00719668
		cg00720047F		cg00720047
WHSC1;WHSC1;WHSC1;WHSC1	NM_133334;NM_001042424	cg00724315R	Body;Body;3'UTR;Body	cg00724315
		cg00727386F		cg00727386
ZFP64	NM_199427	cg00727630F	Body	cg00727630
SLC7A5	NM_003486	cg00728300F	TSS200	cg00728300
FAM183B	NR_028347	cg00729291F	Body	cg00729291
		cg00731201R		cg00731201
RPS6KA2	NM_001006932	cg00734124R	Body	cg00734124
C20orf117;C20orf117	NM_080627;NM_199181	cg00734813R	Body;Body	cg00734813
		cg00735667F		cg00735667
SMOC2;SMOC2	NM_022138;NM_001166412	cg00737264R	Body;Body	cg00737264
C18orf1;C18orf1;C18orf1;	NM_001003675;NM_181481	cg00737978F	5'UTR;Body;Body;5'UTR	cg00737978
		cg00738299F		cg00738299
TMPRSS2;TMPRSS2	NM_001135099;NM_005656	cg00739644F	Body;5'UTR	cg00739644
		cg00740803R		cg00740803
LOC285768;LOC285768	NR_027116;NR_027115	cg00741695R	Body;Body	cg00741695
		cg00742098R		cg00742098
		cg00742472F		cg00742472
LRRN1	NM_020873	cg00742851F	5'UTR	cg00742851
ATG4B;ATG4B	NM_013325;NM_178326	cg00744550R	Body;Body	cg00744550
LRRC37B	NM_052888	cg00745463R	Body	cg00745463
		cg00746386R		cg00746386

PARD3B;PARD3B;PARD3	NM_152526;NM_057177;NM_00751021F	cg00751021F	Body;Body;Body	cg00751021
		cg00752077R		cg00752077
		cg00752480F		cg00752480
		cg00756362R		cg00756362
GALK2;GALK2	NM_001001556;NM_002044	cg00756450F	Body;Body	cg00756450
IPCEF1;IPCEF1	NM_001130700;NM_015553	cg00756845R	TSS1500;TSS1500	cg00756845
PLCH1;PLCH1;PLCH1	NM_001130960;NM_001130	cg00757822R	Body;Body;Body	cg00757822
		cg00758701F		cg00758701
		cg00759301R		cg00759301
		cg00760536F		cg00760536
NUBPL	NM_025152	cg00760812F	Body	cg00760812
NBEA	NM_015678	cg00762613F	Body	cg00762613
ATG4B;ATG4B	NM_013325;NM_178326	cg00764619F	Body;Body	cg00764619
		cg00765765R		cg00765765
RPLP1;RPLP1;RPLP1;RPL	NM_213725;NM_213725;NM_00766985R	cg00766985R	1stExon;5'UTR;1stExon	cg00766985
		cg00772775R		cg00772775
LOC642006	NR_030766	cg00772850R	TSS200	cg00772850
		cg00774769R		cg00774769
		cg00775781R		cg00775781
LMNB2	NM_032737	cg00775818R	Body	cg00775818
TG	NM_003235	cg00776405R	Body	cg00776405
		cg00776427F		cg00776427
		cg00777546F		cg00777546
SRP9;SRP9	NM_001130440;NM_003133	cg00777895F	1stExon;1stExon	cg00777895
ZNF433	NM_001080411	cg00779243F	TSS1500	cg00779243
ZNF362	NM_152493	cg00779328R	Body	cg00779328
		cg00788688R		cg00788688
MIR548N;OSBPL6;OSBPL	NR_031666;NM_032523;NM_00789792F	cg00789792F	TSS1500;Body;Body	cg00789792
EPB41;EPB41;EPB41;EPB	NM_203343;NM_001166007	cg00790928F	1stExon;5'UTR;5'UTR;1	cg00790928
		cg00792235R		cg00792235
		cg00795416R		cg00795416
MGC23284;SNAI3	NR_024399;NM_178310	cg00796866F	Body;3'UTR	cg00796866
FYN;FYN;FYN	NM_153048;NM_153047;NM_00801571R	cg00801571R	Body;Body;Body	cg00801571
CTNND2	NM_001332	cg00806634R	Body	cg00806634
VHL;VHL	NM_198156;NM_000551	cg00807342F	TSS1500;TSS1500	cg00807342
		cg00809453R		cg00809453
		cg00813343R		cg00813343
TBC1D14;TBC1D14	NM_001113361;NM_020773	cg00813886F	Body;Body	cg00813886
TSC22D4;TSC22D4	NM_030935;NM_030935	cg00814883F	1stExon;5'UTR	cg00814883
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg00815484R	Body;Body;Body	cg00815484
C1orf25;C1orf26;C1orf26	NM_030934;NM_017673;NM_00816620R	cg00816620R	TSS1500;5'UTR;5'UTR	cg00816620
		cg00816676F		cg00816676
CACYBP;CACYBP;CACY	NM_014412;NM_001007214	cg00820581F	5'UTR;5'UTR;1stExon	cg00820581
FRMD6	NM_001042481	cg00820637F	TSS1500	cg00820637
ACOT7;ACOT7;ACOT7;A	NM_181864;NM_181865;NM_00821310F	cg00821310F	Body;5'UTR;1stExon;Bo	cg00821310
DPH3;OXNAD1;DPH3;DP	NM_206831;NM_138381;NM_00822591F	cg00822591F	5'UTR;TSS1500;1stExon	cg00822591
SP9	NM_001145250	cg00827989F	Body	cg00827989
TBCD	NM_005993	cg00830755R	Body	cg00830755
SELT	NM_016275	cg00832928R	Body	cg00832928
MMADHC	NM_015702	cg00833344R	3'UTR	cg00833344
ANKRD11	NM_013275	cg00837290F	Body	cg00837290
MCF2L;MCF2L	NM_001112732;NM_024979	cg00841725F	Body;Body	cg00841725
		cg00843278F		cg00843278
ASXL2	NM_018263	cg00844078R	Body	cg00844078

ZNF709	NM_001145647	cg00844821F	TSS1500	cg00844821
PDLIM5;PDLIM5;PDLIM5NR_024179;NM_006457;NM		cg00846287F	Body;Body;Body	cg00846287
		cg00847221F		cg00847221
TTC14;TTC14	NM_001042601;NM_133462	cg00848033R	TSS1500;TSS1500	cg00848033
GIPR	NM_000164	cg00848780F	Body	cg00848780
PRDM16;PRDM16	NM_022114;NM_199454	cg00849570F	Body;Body	cg00849570
CRIM1	NM_016441	cg00850538F	TSS1500	cg00850538
ZNF598	NM_178167	cg00852033R	Body	cg00852033
RCBTB1	NM_018191	cg00852613F	TSS200	cg00852613
FMNL1	NM_005892	cg00853068R	TSS1500	cg00853068
		cg00854273R		cg00854273
		cg00854591R		cg00854591
		cg00854594F		cg00854594
		cg00855262F		cg00855262
SIPA1L2	NM_020808	cg00855461F	Body	cg00855461
PGK1	NM_000291	cg00855706F	TSS1500	cg00855706
		cg00856273F		cg00856273
MIR495	NR_030175	cg00856952R	TSS1500	cg00856952
SP5	NM_001003845	cg00858840F	Body	cg00858840
LSM14B	NM_144703	cg00859739R	TSS200	cg00859739
KCNMB3;KCNMB3	NM_001163677;NM_171828	cg00862290F	TSS200;TSS200	cg00862290
PVRL4	NM_030916	cg00862398R	3'UTR	cg00862398
UGT1A9;UGT1A10;UGT1	NM_021027;NM_019075;NM	cg00862675F	TSS200;Body;Body	cg00862675
		cg00863913F		cg00863913
FLJ43950	NR_026851	cg00863922F	TSS1500	cg00863922
		cg00864563F		cg00864563
PTBP2	NM_021190	cg00865653R	Body	cg00865653
ZNF213;ZNF213	NM_001134655;NM_004220	cg00872270R	Body;Body	cg00872270
ZNF605;ZNF605	NM_001164715;NM_183238	cg00873974R	5'UTR;5'UTR	cg00873974
CAPS;CAPS	NM_080590;NM_004058	cg00879667F	Body;Body	cg00879667
SGEF	NM_015595	cg00880562R	TSS1500	cg00880562
		cg00882175R		cg00882175
		cg00883218R		cg00883218
		cg00884170F		cg00884170
TAOK3	NM_016281	cg00887547F	TSS1500	cg00887547
		cg00888252R		cg00888252
EPB49;EPB49;EPB49;EPB	NM_001114135;NM_001114	cg00891025F	TSS200;5'UTR;5'UTR;5'	cg00891025
C16orf73;C16orf73	NM_152764;NM_001163560	cg00892393R	Body;Body	cg00892393
		cg00893522F		cg00893522
MAGI1;MAGI1;MAGI1	NM_015520;NM_001033057	cg00894142F	Body;Body;Body	cg00894142
AGMAT	NM_024758	cg00894481F	TSS1500	cg00894481
		cg00895231F		cg00895231
		cg00896282R		cg00896282
HEATR7A;HEATR7A;HE	NM_001099281;NM_001099	cg00897115F	Body;Body;Body	cg00897115
		cg00897796R		cg00897796
ANXA4	NM_001153	cg00900124R	TSS200	cg00900124
LMO7	NM_005358	cg00902815R	Body	cg00902815
ODZ4	NM_001098816	cg00908927R	TSS1500	cg00908927
		cg00909806F		cg00909806
KCNG4	NM_172347	cg00911376R	TSS1500	cg00911376
IRS1	NM_005544	cg00912573R	1stExon	cg00912573
PTMA;PTMA;PTMA;PTM	NM_002823;NM_001099285	cg00913289R	1stExon;1stExon;5'UTR;	cg00913289
WDR51B	NM_172240	cg00913521F	Body	cg00913521
PKNOX2	NM_022062	cg00914022R	5'UTR	cg00914022



ABR;ABR;ABR	NM_021962;NM_001092;NM_00914147R	cg00914147R	Body;Body;Body	cg00914147
CROCC	NM_014675	cg00914354R	Body	cg00914354
PABPC3	NM_030979	cg00914659F	1stExon	cg00914659
DOCK5	NM_024940	cg00914787R	Body	cg00914787
PRRX1;PRRX1	NM_022716;NM_006902	cg00916255R cg00919806F	Body;Body	cg00916255 cg00919806
SLC29A1;SLC29A1;SLC29A1	NM_001078174;NM_001078	cg00920254R	5'UTR;TSS1500;TSS1500	cg00920254
LOC442293	NR_033246	cg00920477F cg00923880F cg00924575R	TSS1500	cg00920477 cg00923880 cg00924575
ZNF3;ZNF3	NM_017715;NM_032924	cg00929606F	TSS1500;TSS1500	cg00929606
PPM1G;PPM1G	NM_002707;NM_177983	cg00934087F	Body;Body	cg00934087
UNC84A;UNC84A	NM_025154;NM_001130965	cg00934597F	Body;Body	cg00934597
OR2V2	NM_206880	cg00934735R cg00936904R cg00940287R	1stExon	cg00934735 cg00936904 cg00940287
TRRAP	NM_003496	cg00944599F	Body	cg00944599
ARNT;ARNT;ARNT	NM_178427;NM_001668;NM_00944785F cg00947801F cg00948906F	cg00944785F cg00947801F cg00948906F	Body;Body;Body	cg00944785 cg00947801 cg00948906
MCPH1	NM_024596	cg00949532F	Body	cg00949532
EXOC7;EXOC7;EXOC7;EXOC7	NM_015219;NM_001013839	cg00953403F	5'UTR;1stExon;5'UTR;1	cg00953403
SKI	NM_003036	cg00954996F	Body	cg00954996
NDRG2;NDRG2;NDRG2;NDRG2	NM_201540;NM_201541;NM_00957580F cg00958334R	cg00957580F cg00958334R	3'UTR;3'UTR;3'UTR;3'UTR	cg00957580 cg00958334
KIAA0182;KIAA0182	NM_001134473;NM_014615	cg00959027R cg00959431R cg00959635R	5'UTR;Body	cg00959027 cg00959431 cg00959635
TMEM48;TMEM48;TMEM48	NM_018087;NR_033142;NM_00959749F cg00960509F	cg00959749F cg00960509F	Body;Body;Body 1stExon;5'UTR	cg00959749 cg00960509
ECE1;ECE1	NM_001113348;NM_001113	cg00962707F		cg00962707
SSX8	NR_027250	cg00962799F	TSS200	cg00962799
SMOC2;SMOC2	NM_022138;NM_001166412	cg00963850F	Body;Body	cg00963850
ST7;ST7	NM_018412;NM_021908	cg00963942R cg00964848R	Body;Body	cg00963942 cg00964848
LOC388588	NM_001163724	cg00965121F	5'UTR	cg00965121
SMTN;SMTN;SMTN	NM_006932;NM_134269;NM_00965154R cg00966380R	cg00965154R cg00966380R	Body;Body;Body	cg00965154 cg00966380
TMCO4;TMCO4	NM_181719;NM_181719	cg00966591R	5'UTR;1stExon	cg00966591
PHF13	NM_153812	cg00967405F cg00969119R	Body	cg00967405 cg00969119
AFARP1;SLC16A1;SLC16A1	NR_002796;NM_001166496;cg00969680F	cg00969680F	Body;Body;Body	cg00969680
SIRT1;SIRT1	NM_001142498;NM_012238	cg00972288R	TSS1500;TSS200	cg00972288
FBXL19	NM_001099784	cg00975115F	Body	cg00975115
PCDHGA2;PCDHGA4;PCDHGA4	NM_018915;NM_018917;NM_00978427F cg00979288F	cg00978427F cg00979288F	Body;1stExon;Body;Body	cg00978427 cg00979288
PCDHB2	NM_018936	cg00979288F	1stExon	cg00979288
WIPI2;WIPI2;WIPI2;WIPI2	NM_015610;NM_016003;NM_00987699R cg00989315F	cg00987699R cg00989315F	5'UTR;5'UTR;1stExon;1stExon	cg00987699 cg00989315
CDCA7L;CDCA7L;CDCA7L	NM_001127371;NM_018719	cg00989315F	Body;Body;5'UTR	cg00989315
EXOC6;EXOC6	NM_001013848;NM_019053	cg00990884F	Body;TSS200	cg00990884
ABTB1;ABTB1;ABTB1	NM_172028;NM_172027;NM_00992117R cg00992264R cg00992586F	cg00992117R cg00992264R cg00992586F	TSS200;TSS200;TSS200	cg00992117 cg00992264 cg00992586
POM121	NM_172020	cg00992264R cg00992586F	Body	cg00992264 cg00992586
ATG9B	NM_173681	cg00993710F	TSS1500	cg00993710
PCMTD1	NM_052937	cg00994411F	TSS1500	cg00994411



DSCAM	NM_001389	cg01077058F cg01078582F cg01079950R	Body	cg01077058 cg01078582 cg01079950
RECQL4	NM_004260	cg01081091R	Body	cg01081091
LCA5;LCA5	NM_181714;NM_001122769	cg01081400R	3'UTR;3'UTR	cg01081400
MAML1	NM_014757	cg01084379F	Body	cg01084379
SIK3	NM_025164	cg01084837R	Body	cg01084837
FAM40A	NM_033088	cg01084918R cg01085765F cg01086039F cg01088863R	TSS1500	cg01084918 cg01085765 cg01086039 cg01088863
PDLIM1	NM_020992	cg01089060R	TSS200	cg01089060
ATP6V1C2;ATP6V1C2	NM_144583;NM_001039362	cg01089589F cg01089914F	Body;Body	cg01089589 cg01089914
GRM4	NM_000841	cg01090161R	Body	cg01090161
SFTPD	NM_003019	cg01090565F cg01090686R	Body	cg01090565 cg01090686
DHX30;DHX30;MIR1226	NM_138615;NM_014966;NR	cg01090930R	Body;Body;TSS200	cg01090930
ADCY9	NM_001116	cg01091261R	Body	cg01091261
RAB11FIP3;RAB11FIP3	NM_014700;NM_001142272	cg01092250F cg01093028F cg01094121R	Body;Body	cg01092250 cg01093028 cg01094121
COL11A2;COL11A2;COL	NM_080679;NM_080681;NM	cg01094192R	Body;Body;Body;Body	cg01094192
LRRC14	NM_014665	cg01097196F cg01099220F cg01101527F cg01103253R	3'UTR	cg01097196 cg01099220 cg01101527 cg01103253
SLC9A3	NM_004174	cg01103582F	Body	cg01103582
ITPR2	NM_002223	cg01103812R	TSS200	cg01103812
IQCE;IQCE	NM_001100390;NM_152558	cg01103938F cg01104200F cg01106248F	Body;Body	cg01103938 cg01104200 cg01106248
TBCD	NM_005993	cg01107903F	Body	cg01107903
PNPLA7;MRPL41;PNPLA	NM_152286;NM_032477;NM	cg01111842R	5'UTR;TSS1500;1stExon	cg01111842
MIRLET7A3;LOC400931;MIR	NR_029478;NR_027033;NR	cg01111856F	TSS200;Body;TSS1500	cg01111856
DKC1;DKC1	NM_001142463;NM_001363	cg01112702R cg01113488R	3'UTR;3'UTR	cg01112702 cg01113488
RWDD1;RWDD1;RWDD1	NM_016104;NM_001007464	cg01114156F	Body;Body;Body	cg01114156
MED12L;P2RY14	NM_053002;NM_014879	cg01114224F	Body;TSS200	cg01114224
P4HA3	NM_182904	cg01115274F	TSS200	cg01115274
CYP46A1	NM_006668	cg01117627F	TSS200	cg01117627
DDX24;IFI27L1;IFI27L1	NM_020414;NM_145249;NM	cg01117833R	5'UTR;TSS1500;TSS1500	cg01117833
SLC29A4;SLC29A4	NM_153247;NM_001040661	cg01121978R	Body;Body	cg01121978
UNC80;UNC80	NM_032504;NM_182587	cg01123250F	Body;Body	cg01123250
NPAS3;NPAS3;NPAS3;NPNM	001164749;NM_173159	cg01123957F cg01125563F	Body;Body;Body;Body	cg01123957 cg01125563
KIF26A	NM_015656	cg01126699R	Body	cg01126699
MTA3	NM_020744	cg01129751R	Body	cg01129751
STOX1;STOX1;STOX1;STNM	001130162;NM_001130	cg01130322R	5'UTR;Body;Body;Body	cg01130322
PRKRIR	NM_004705	cg01132139R	1stExon	cg01132139
PAGE5;PAGE5	NM_130467;NM_001013435	cg01133413R cg01134260R	TSS200;TSS200	cg01133413 cg01134260
CRAMP1L	NM_020825	cg01135315R	Body	cg01135315
BBX;BBX	NM_020235;NM_001142568	cg01135961F	5'UTR;5'UTR	cg01135961

LMF1	NM_022773	cg01138791R	Body	cg01138791
SPSB4	NM_080862	cg01138921F	Body	cg01138921
TSTA3	NM_003313	cg01142693R	Body	cg01142693
		cg01142735F		cg01142735
FADS6	NM_178128	cg01143309R	TSS200	cg01143309
		cg01143375R		cg01143375
		cg01144019R		cg01144019
		cg01144344R		cg01144344
HDAC10;HDAC10	NM_032019;NM_001159286	cg01144387F	Body;Body	cg01144387
USP34	NM_014709	cg01145124F	Body	cg01145124
ODC1	NM_002539	cg01145284R	3'UTR	cg01145284
		cg01145686R		cg01145686
TAL1	NM_003189	cg01147107R	TSS1500	cg01147107
		cg01147810R		cg01147810
		cg01153138F		cg01153138
BRF1;BTBD6;BRF1	NM_145685;NM_033271;NM_001153451R	cg01153451R	TSS200;TSS1500;Body	cg01153451
IRAK1BP1;IRAK1BP1	NM_001010844;NM_00101010	cg01153979F	5'UTR;1stExon	cg01153979
		cg01154525F		cg01154525
MGC13005;MGC13005	NR_024005;NR_024004	cg01154658R	TSS1500;Body	cg01154658
		cg01156816F		cg01156816
ADAM11	NM_002390	cg01160311R	Body	cg01160311
SRCAP	NM_006662	cg01161919F	Body	cg01161919
RNF14;RNF14;RNF14;RNF14	NM_004290;NM_183399;NM_001162549F	cg01162549F	3'UTR;3'UTR;3'UTR;3'UTR	cg01162549
LOC91316	NR_024448	cg01163848R	TSS1500	cg01163848
		cg01166159R		cg01166159
		cg01166350R		cg01166350
		cg01170276F		cg01170276
PLSCR3	NM_020360	cg01172338F	5'UTR	cg01172338
		cg01172785R		cg01172785
TPK1;TPK1	NM_022445;NM_001042482	cg01173941F	Body;Body	cg01173941
SUGT1P1;CHMP5;BAG1;	NR_003667;NM_016410;NM_001177235F	cg01177235F	Body;5'UTR;TSS1500;1	cg01177235
		cg01180552F		cg01180552
		cg01181084F		cg01181084
BEND7;BEND7	NM_152751;NM_001100912	cg01182895F	Body;Body	cg01182895
		cg01183965R		cg01183965
TNXB	NM_019105	cg01188191R	Body	cg01188191
C20orf199;C20orf199;SNONR_003605;NR_003606;NR_001188753R		cg01188753R	Body;Body;TSS200;Body	cg01188753
KCNH6;KCNH6	NM_030779;NM_173092	cg01190637R	Body;Body	cg01190637
C1orf127;C1orf127	NM_001170754;NM_173507	cg01191660F	Body;Body	cg01191660
INPP5A	NM_005539	cg01195672R	Body	cg01195672
LOC401127	NR_026854	cg01196996F	TSS200	cg01196996
ANKRD11	NM_013275	cg01198359R	Body	cg01198359
		cg01198364R		cg01198364
		cg01200104R		cg01200104
ABLIM2;ABLIM2;ABLIM2	NM_032432;NM_001130083	cg01200651F	Body;Body;Body;Body;Body	cg01200651
ZNF629	NM_001080417	cg01201399R	Body	cg01201399
MORN3	NM_173855	cg01203563F	TSS1500	cg01203563
		cg01204210R		cg01204210
		cg01206398R		cg01206398
		cg01207678R		cg01207678
		cg01207974F		cg01207974
		cg01215328F		cg01215328
GDF1;LASS1	NM_001492;NM_021267	cg01215442F	Body;3'UTR	cg01215442
HOXA10;HOXA10	NM_018951;NM_153715	cg01215762R	TSS200;Body	cg01215762

PGAM1	NM_002629	cg01217329R	3'UTR	cg01217329
INPP5D;INPP5D	NM_005541;NM_001017915	cg01218053F cg01219347F	Body;Body	cg01218053 cg01219347
ZP3;ZP3	NM_007155;NM_001110354	cg01219670R	Body;Body	cg01219670
SH3KBP1	NM_031892	cg01220513F cg01222380F cg01222594F	Body	cg01220513 cg01222380 cg01222594
BASP1	NM_006317	cg01224884F	5'UTR	cg01224884
SQSTM1;SQSTM1	NM_001142298;NM_001142	cg01225779R cg01226417R	5'UTR;5'UTR	cg01225779 cg01226417
MME;MME;MME;MME	NM_007289;NM_000902;NM_001230154	cg01230154F cg01230784R	Body;Body;Body;Body	cg01230154 cg01230784
FBRSL1	NM_001142641	cg01231485F cg01231543R cg01235581R	Body	cg01231485 cg01231543 cg01235581
AMPH;AMPH	NM_139316;NM_001635	cg01236751R cg01236961F	Body;Body	cg01236751 cg01236961
RTN4IP1;QRSL1;RTN4IP	NM_032730;NM_018292;NM_001239717	cg01239717F	5'UTR;TSS200;1stExon	cg01239717
CEP164	NM_014956	cg01240566F	Body	cg01240566
IGFBP7	NM_001553	cg01241576F	Body	cg01241576
ZFPM1	NM_153813	cg01242145F	Body	cg01242145
PDPK1;LOC652276;PDPK1	NM_031268;NR_015441;NM_001244128	cg01244128F	3'UTR;TSS1500;3'UTR	cg01244128
DLX1;DLX1	NM_001038493;NM_178120	cg01244270R	3'UTR;3'UTR	cg01244270
FOXP4;FOXP4;FOXP4;FOXP4	NM_138457;NM_001012427	cg01244432R cg01244520R	1stExon;5'UTR;5'UTR;1stExon	cg01244432 cg01244520
FAM66E	NR_027424	cg01245776R	Body	cg01245776
PLEKHA1	NM_001001974	cg01246254R	5'UTR	cg01246254
TMC8;TMC6	NM_152468;NM_007267	cg01246266F cg01250603R	TSS1500;5'UTR	cg01246266 cg01250603
CUX2	NM_015267	cg01252513F	Body	cg01252513
TERT;TERT	NM_198255;NM_198253	cg01256882R	Body;Body	cg01256882
HCCA2;KRTAP5-4	NM_053005;NM_001012709	cg01258634R	Body;TSS1500	cg01258634
RNF126	NM_194460	cg01259702F	Body	cg01259702
GIMAP7	NM_153236	cg01260502R	Body	cg01260502
ANKRD1;ANKRD1	NM_014391;NM_014391	cg01262952R cg01263631R	1stExon;5'UTR	cg01262952 cg01263631
FAM155A	NM_001080396	cg01263999F cg01265653F	Body	cg01263999 cg01265653
SERPINB6	NM_004568	cg01266060R	Body	cg01266060
PINX1	NM_017884	cg01269314F	Body	cg01269314
MKL2	NM_014048	cg01270033R	TSS200	cg01270033
REG3G;REG3G	NM_001008387;NM_198448	cg01272790F cg01276327F	3'UTR;3'UTR	cg01272790 cg01276327
BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_001276536	cg01276536F	Body;Body;Body;Body	cg01276536
C12orf67	NR_029451	cg01281611R	TSS1500	cg01281611
GIF;GIF	NM_005142;NM_005142	cg01282204F	1stExon;5'UTR	cg01282204
C14orf101	NM_017799	cg01282432F cg01283712R	Body	cg01282432 cg01283712
UBB	NM_018955	cg01286555R	TSS200	cg01286555
NSMAF;NSMAF	NM_003580;NM_001144772	cg01288611F cg01288645R	Body;Body	cg01288611 cg01288645
USP49	NM_018561	cg01289140F	5'UTR	cg01289140
HCCA2	NM_053005	cg01289206R	Body	cg01289206
HCCA2;FAM99B	NM_053005;NR_026642	cg01291856R	Body;TSS200	cg01291856

HDAC4	NM_006037	cg01294717R cg01297180R	Body	cg01294717 cg01297180
CCR1	NM_001295	cg01297500R	Body	cg01297500
PPFIBP1;PPFIBP1	NM_177444;NM_003622	cg01298374F	5'UTR;5'UTR	cg01298374
SDC1;SDC1	NM_002997;NM_001006946	cg01298991R cg01300914F	Body;Body	cg01298991 cg01300914
CSRP2	NM_001321	cg01301323F cg01302101F	3'UTR	cg01301323 cg01302101
USP9X;USP9X;USP9X;USNM_001039590;NM_001039	ENC1	cg01302641R	1stExon;1stExon;5'UTR;	cg01302641
ENC1	NM_003633	cg01303236R	5'UTR	cg01303236
ZNF286A;ZNF286A	NM_001130842;NM_020652	cg01304102R cg01304710F	Body;Body	cg01304102 cg01304710
MIR145;LOC728264	NR_029686;NR_027180	cg01310120F	TSS200;Body	cg01310120
GXYLT2	NM_001080393	cg01310884R	Body	cg01310884
DTX1	NM_004416	cg01313387F	Body	cg01313387
PPP3CC	NM_005605	cg01320780R	TSS200	cg01320780
AIFM2	NM_032797	cg01322555F cg01323766F	TSS200	cg01322555 cg01323766
STARD3;STARD3;STARDNM_006804;NM_001165937	cg01325958R cg01328235F	TSS200;TSS200;TSS200	cg01325958 cg01328235	
PDLIM4;PDLIM4	NM_003687;NM_001131027	cg01329434R	Body;Body	cg01329434
DNAH2	NM_020877	cg01330991F cg01333287R	Body	cg01330991 cg01333287
GJB5	NM_005268	cg01333788R	5'UTR	cg01333788
RNF40	NM_014771	cg01334783F	Body	cg01334783
FAM175B	NM_032182	cg01337736F	TSS1500	cg01337736
SLC5A4	NM_014227	cg01337931F	TSS1500	cg01337931
C6orf25;C6orf25;C6orf25;CNM_138274;NM_138273;NM	cg01338864F cg01339959R cg01342858F cg01344738F cg01344787F cg01347035R	Body;Body;Body;Body;B	cg01338864 cg01339959 cg01342858 cg01344738 cg01344787 cg01347035	
TIAM1	NM_003253	cg01349489R cg01351278R cg01352472F	5'UTR	cg01349489 cg01351278 cg01352472
ACAA1;ACAA1;ACAA1;MNR_024024;NM_001607;NM	cg01353464R cg01356463F	TSS1500;TSS1500;TSS1	cg01353464 cg01356463	
C12orf47;MAPKAPK5;MANR_015404;NM_003668;NM	cg01356558F cg01357234R cg01358406R	Body;TSS200;TSS200	cg01356558 cg01357234 cg01358406	
ATP11A;ATP11A	NM_015205;NM_032189	cg01357234R cg01358406R	3'UTR;3'UTR	cg01356558 cg01357234 cg01358406
CCDC9	NM_015603	cg01362383R	5'UTR	cg01362383
KRT17	NM_000422	cg01362515F	TSS1500	cg01362515
VWCE	NM_152718	cg01370241R	Body	cg01370241
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM	cg01370437F cg01372694R cg01372811F	Body;Body;Body	cg01370437 cg01372694 cg01372811
ZNF821;ATXN1L	NM_017530;NR_024612	cg01373691R	TSS1500;Body	cg01373691
RNF207	NM_207396	cg01373911R	Body	cg01373911
BAT1;BAT1	NM_080598;NM_004640	cg01373932F	Body;Body	cg01373932
GDPD5	NM_030792	cg01374565R	TSS200	cg01374565
ANKRD36	NM_001164315	cg01375522R	TSS1500	cg01375522
IRF5;IRF5;IRF5;IRF5;IRF5NM_001098630;NM_032643	cg01377503F	5'UTR;5'UTR;5'UTR;5'U	cg01377503	
SULT1A1;SULT1A1;SUL	NM_177529;NM_177536;NM	cg01378222R	TSS1500;Body;TSS1500	cg01378222

ZNF611;ZNF611;ZNF611	NM_001161500;NM_001161	cg01378677R	5'UTR;5'UTR;5'UTR	cg01378677
NT5M	NM_020201	cg01379158R	TSS200	cg01379158
CABLES2	NM_031215	cg01379171F	Body	cg01379171
		cg01380078R		cg01380078
GPC1	NM_002081	cg01380104F	Body	cg01380104
SH3PXD2A	NM_014631	cg01380878F	Body	cg01380878
ARAP1;ARAP1;ARAP1	NM_001040118;NM_001135	cg01381367R	Body;TSS200;TSS200	cg01381367
		cg01381374R		cg01381374
SSH2	NM_033389	cg01383581F	3'UTR	cg01383581
NFAM1	NM_145912	cg01383955F	TSS200	cg01383955
		cg01385850F		cg01385850
		cg01386424F		cg01386424
MYADML2	NM_001145113	cg01386831F	TSS1500	cg01386831
UCN3	NM_053049	cg01387797F	TSS1500	cg01387797
RASIP1	NM_017805	cg01388301R	Body	cg01388301
		cg01390039F		cg01390039
ROPN1L	NM_031916	cg01393945F	Body	cg01393945
KHDC1	NM_030568	cg01394339R	5'UTR	cg01394339
SEC22B	NM_004892	cg01395217F	Body	cg01395217
NKX2-2	NM_002509	cg01397679R	Body	cg01397679
FASTKD2;MDH1B;MDH1	NM_014929;NM_001039845	cg01399068R	TSS200;1stExon;5'UTR;	cg01399068
KIAA0664	NM_015229	cg01401336F	Body	cg01401336
FAM54A;FAM54A	NM_001099286;NM_138419	cg01402448R	TSS200;TSS200	cg01402448
HDAC4	NM_006037	cg01403123R	5'UTR	cg01403123
		cg01403307F		cg01403307
KIAA0564	NM_015058	cg01406836F	Body	cg01406836
		cg01407875R		cg01407875
CHIC1	NM_001039840	cg01413240F	Body	cg01413240
SEPW1	NM_003009	cg01414357R	Body	cg01414357
SH3BGRL3	NM_031286	cg01414934R	TSS1500	cg01414934
		cg01415456R		cg01415456
CYP26C1	NM_183374	cg01416891R	TSS200	cg01416891
		cg01417364R		cg01417364
INPP4B;INPP4B	NM_003866;NM_001101669	cg01417394F	Body;Body	cg01417394
NFASC;NFASC;NFASC;N	NM_015090;NM_001160333	cg01418162R	5'UTR;5'UTR;5'UTR;5'U	cg01418162
		cg01419670R		cg01419670
HS1BP3	NM_022460	cg01420491R	Body	cg01420491
ADPRHL1;ADPRHL1	NM_199162;NM_138430	cg01421309R	Body;Body	cg01421309
OSGIN2;OSGIN2	NM_004337;NM_001126111	cg01421994F	5'UTR;Body	cg01421994
TSPAN16	NM_012466	cg01422017F	TSS200	cg01422017
RNF220	NM_018150	cg01422881F	5'UTR	cg01422881
KIF13A;KIF13A;KIF13A;	NM_022113;NM_001105567	cg01426125R	Body;Body;Body;Body	cg01426125
ACSF3;ACSF3;ACSF3	NR_023316;NM_001127214;	cg01427313F	Body;5'UTR;5'UTR	cg01427313
KCNK16;KCNK16;KCNK	NM_001135106;NM_001135	cg01429075R	TSS1500;TSS1500;TSS1	cg01429075
		cg01430103R		cg01430103
		cg01430367F		cg01430367
TEX14;RAD51C;TEX14;R	NM_198393;NM_002876;NM	cg01430588F	TSS1500;TSS200;TSS15	cg01430588
S100A8	NM_002964	cg01431057R	Body	cg01431057
TIMM44	NM_006351	cg01432010R	Body	cg01432010
ZIC2	NM_007129	cg01432620R	Body	cg01432620
TMEM214;TMEM214	NM_017727;NM_001083590	cg01435137R	TSS1500;TSS1500	cg01435137
		cg01436643F		cg01436643
C3orf37;C3orf37;C3orf37	NM_001006109;NM_001006	cg01436664R	1stExon;5'UTR;5'UTR	cg01436664
		cg01442257F		cg01442257

CCDC109B	NM_017918	cg01442334R	Body	cg01442334
HIST1H2AM;HIST1H2BONM_003514;NM_003527		cg01442959F	TSS1500;1stExon	cg01442959
		cg01443166F		cg01443166
BTBD3;BTBD3	NM_181443;NM_014962	cg01444716F	5'UTR;TSS200	cg01444716
ERMP1	NM_024896	cg01446217F	Body	cg01446217
FAM107A;FAM107A	NM_007177;NM_001076778	cg01446393R	TSS200;TSS200	cg01446393
RBM19;RBM19;RBM19	NM_001146698;NM_016196	cg01446614R	TSS200;TSS200;TSS200	cg01446614
		cg01446620R		cg01446620
PF4	NM_002619	cg01447579F	Body	cg01447579
CEP68	NM_015147	cg01447702F	TSS1500	cg01447702
LAT;LAT;LAT;LAT;LAT;NM_001014987;NM_001014		cg01448132R	5'UTR;Body;5'UTR;5'U	cg01448132
		cg01449444R		cg01449444
NTN1	NM_004822	cg01449663R	Body	cg01449663
GALP;GALP	NM_033106;NM_001145546	cg01454134F	TSS1500;TSS1500	cg01454134
SATB2	NM_015265	cg01455456F	Body	cg01455456
PPP2CA	NM_002715	cg01460557F	1stExon	cg01460557
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_001146234	cg01462349R	Body;Body;Body	cg01462349
SLC12A8	NM_024628	cg01464473R	Body	cg01464473
SNORD32B	NR_003049	cg01465527F	TSS1500	cg01465527
KIF1A	NM_004321	cg01466615F	5'UTR	cg01466615
PARD3B;PARD3B;PARD	NM_152526;NM_057177;NM_001146913	cg01469132R	Body;Body;Body	cg01469132
CLEC18A;CLEC18A;CLEC	NM_182619;NM_001136214	cg01472075F	5'UTR;5'UTR;1stExon	cg01472075
		cg01474140R		cg01474140
DHCR7;DHCR7	NM_001163817;NM_001360	cg01476789F	Body;Body	cg01476789
EIF4A1;SNORA67;SNOR	NM_001416;NR_002912;NR_001147779	cg01477797R	Body;TSS1500;TSS1500	cg01477797
		cg01484843R		cg01484843
		cg01485009F		cg01485009
EVL	NM_016337	cg01485838R	Body	cg01485838
WDR60	NM_018051	cg01486253R	TSS1500	cg01486253
F13B	NM_001994	cg01488306R	TSS1500	cg01488306
XPNPEP3;ST13	NM_022098;NM_003932	cg01488674F	TSS1500;TSS200	cg01488674
GPM6A;GPM6A	NM_005277;NM_201592	cg01490325R	5'UTR;Body	cg01490325
C1orf115	NM_024709	cg01491219R	TSS200	cg01491219
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM_001149139	cg01491398F	Body;Body;Body	cg01491398
BCAT1	NM_005504	cg01494454R	Body	cg01494454
KCNH2;KCNH2	NM_172056;NM_000238	cg01494890F	Body;Body	cg01494890
		cg01495670F		cg01495670
		cg01496602R		cg01496602
PSMD13;PSMD13	NM_002817;NM_175932	cg01496715F	Body;Body	cg01496715
AGAP3;AGAP3	NM_001042535;NM_031946	cg01501264F	3'UTR;Body	cg01501264
HMGB1	NM_002128	cg01504447F	TSS1500	cg01504447
U2AF2;U2AF2	NM_001012478;NM_007279	cg01505148R	Body;Body	cg01505148
FCGBP	NM_003890	cg01505690R	Body	cg01505690
C2orf89	NM_001080824	cg01505870R	Body	cg01505870
ZC3H13	NM_015070	cg01506766F	5'UTR	cg01506766
		cg01508600F		cg01508600
CCDC122;C13orf31;C13or	NM_144974;NM_001128303	cg01509141F	5'UTR;TSS200;TSS1500	cg01509141
		cg01512089R		cg01512089
TMEM163	NM_030923	cg01513516R	Body	cg01513516
		cg01514356R		cg01514356
NT5C;NT5C	NM_014595;NM_014595	cg01514436R	5'UTR;1stExon	cg01514436
		cg01514465F		cg01514465
DMRTB1	NM_033067	cg01515427F	TSS1500	cg01515427
PKN1	NM_002741	cg01515516R	TSS200	cg01515516



ABCA9	NM_080283	cg01517431R cg01517500R cg01518131R	TSS1500	cg01517431 cg01517500 cg01518131
HIST1H4G	NM_003547	cg01518846F	1stExon	cg01518846
CLDN9	NM_020982	cg01519584R cg01522278R cg01528542F cg01528913F	TSS1500	cg01519584 cg01522278 cg01528542 cg01528913
SDC4P	NR_001580	cg01530803R	TSS200	cg01530803
TMEM220	NM_001004313	cg01531763R	TSS1500	cg01531763
RASGRP4;RASGRP4;RASN	NM_001146205;NM_001146	cg01531915F	Body;Body;Body;Body;	cg01531915
BFSP2	NM_003571	cg01532075R cg01532224F cg01532487F	Body	cg01532075 cg01532224 cg01532487
C14orf37	NM_001001872	cg01533082F	Body	cg01533082
HIST1H2BJ	NM_021058	cg01533108R	TSS1500	cg01533108
GPC1	NM_002081	cg01533409R	Body	cg01533409
C3orf26;FILIP1L;FILIP1L;	NM_032359;NM_182909;NM_001534081R	cg01534081R cg01536979F	Body;5'UTR;5'UTR;TSS	cg01534081 cg01536979
GNAS;GNAS;GNAS;GNA	NM_001077490;NM_016592	cg01538522R	3'UTR;3'UTR;TSS1500;B	cg01538522
RFX2;RFX2	NM_000635;NM_134433	cg01538575R cg01545556F	Body;Body	cg01538575 cg01545556
BAIAP3;C16orf42	NM_003933;NM_001001410	cg01551797R cg01552197F	3'UTR;3'UTR	cg01551797 cg01552197
ENPP1	NM_006208	cg01554453R cg01555105R	TSS200	cg01554453 cg01555105
EIF2S2	NM_003908	cg01562356F	TSS1500	cg01562356
CCDC123	NM_032816	cg01563558R	Body	cg01563558
DGKI	NM_004717	cg01564902F	Body	cg01564902
PRSS45	NM_199183	cg01565013R	Body	cg01565013
FASN	NM_004104	cg01565083R	Body	cg01565083
BCL9L	NM_182557	cg01565343F	Body	cg01565343
CCL13	NM_005408	cg01566155R	3'UTR	cg01566155
PRSS8	NM_002773	cg01566323R cg01567239F cg01567783R cg01569827R	TSS200	cg01566323 cg01567239 cg01567783 cg01569827
CACNA2D3	NM_018398	cg01569984R	Body	cg01569984
FBXO31;FBXO31	NR_024568;NM_024735	cg01571169F	Body;Body	cg01571169
IGFBP2	NM_000597	cg01571560F	Body	cg01571560
IGFL2;IGFL2	NM_001135113;NM_001002	cg01571956F	TSS1500;TSS1500	cg01571956
MIR636;SFRS2;MFSD11;	NR_030366;NM_003016;NM_001574134F	cg01574134F	TSS1500;TSS1500;5'UT	cg01574134
LPHN1;LPHN1	NM_014921;NM_001008701	cg01574234F	Body;Body	cg01574234
DPY19L2P2;DPY19L2P2	NR_003561;NR_027768	cg01577992F cg01578164F	TSS1500;TSS200	cg01577992 cg01578164
BLVRA	NM_000712	cg01581867F cg01585567R	TSS200	cg01581867 cg01585567
EYA2;EYA2	NM_005244;NM_172110	cg01585717F	TSS1500;TSS1500	cg01585717
MIR329-2;MIR329-1;MIR7	NR_029968;NR_029967;NR_001587049R	cg01587049R	TSS1500;TSS1500;Body	cg01587049
PPAN-P2RY11;P2RY11;P	NM_001040664;NM_002566	cg01587390R	Body;TSS1500;Body	cg01587390
RPL36;RPL36	NM_033643;NM_015414	cg01588019F cg01588444R	TSS1500;TSS1500	cg01588019 cg01588444
BANP;BANP	NM_017869;NM_079837	cg01589094R	Body;Body	cg01589094
PRKAG2;PRKAG2;PRKAG	NM_016203;NM_001040633	cg01591487F	Body;Body;Body	cg01591487

NTAN1	NM_173474	cg01592662R	TSS1500	cg01592662
DENND3	NM_014957	cg01593134R	Body	cg01593134
		cg01594675R		cg01594675
		cg01596870F		cg01596870
SMARCC2;SMARCC2;SMNM_139067;NM_003075;NM_003075		cg01597255F	TSS200;TSS200;TSS200	cg01597255
HCG18;HCG18	NR_024052;NR_024053	cg01598009F	Body;Body	cg01598009
EPB41L4B;EPB41L4B	NM_019114;NM_018424	cg01601476R	Body;Body	cg01601476
		cg01603569F		cg01603569
ALG14	NM_144988	cg01605789R	Body	cg01605789
		cg01607444F		cg01607444
PALM;PALM	NM_002579;NM_001040	cg01608315R	Body;Body	cg01608315
SENP1;SENP1;PFKM	NM_014554;NM_014554;NM_014554	cg01611134R	5'UTR;1stEx on;TSS200	cg01611134
ATP6V0C	NM_001694	cg01611626R	Body	cg01611626
C1QTNF7	NM_001135170	cg01612003F	Body	cg01612003
APOL3;APOL3;APOL3;A	NM_145641;NR_027835;NR_027835	cg01613294R	5'UTR;TSS1500;TSS1500	cg01613294
SRCRB4D	NM_080744	cg01614764F	Body	cg01614764
IQCE;IQCE	NM_001100390;NM_152558	cg01615453R	TSS200;TSS200	cg01615453
TRMT1;TRMT1;TRMT1	NM_001142554;NM_017722	cg01615850F	Body;Body;Body	cg01615850
GDPD3	NM_024307	cg01617018F	3'UTR	cg01617018
ATP6V1H;ATP6V1H;ATP6V1H	NM_015941;NM_213620;NM_213620	cg01618530R	TSS200;TSS1500;TSS200	cg01618530
		cg01618806F		cg01618806
ITPK1;ITPK1;ITPK1	NM_001142593;NM_014216	cg01619562R	Body;Body;Body	cg01619562
RNASE11	NM_145250	cg01620379R	Body	cg01620379
		cg01620486F		cg01620486
PPAN-P2RY11;P2RY11;P2RY11	NM_001040664;NM_002566	cg01621132R	Body;TSS1500;Body	cg01621132
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg01622718F	Body;Body;Body	cg01622718
MAP3K9	NM_033141	cg01624081R	Body	cg01624081
BANP;BANP	NM_017869;NM_079837	cg01624645R	Body;Body	cg01624645
		cg01626434F		cg01626434
LYRM1;DCUN1D3;LYRM1	NM_001128301;NM_173475	cg01626569R	TSS200;TSS1500;TSS200	cg01626569
		cg01626918R		cg01626918
DGUOK;DGUOK	NM_080916;NM_080918	cg01629435R	TSS1500;TSS1500	cg01629435
		cg01630199F		cg01630199
KLK8;KLK8;KLK8;KLK8	NM_007196;NM_144506;NM_144506	cg01633517R	Body;Body;Body;Body	cg01633517
THBS1	NM_003246	cg01637789F	Body	cg01637789
		cg01638235R		cg01638235
KDM2B;KDM2B	NM_032590;NM_001005366	cg01640991F	Body;Body	cg01640991
FCGBP	NM_003890	cg01641152R	Body	cg01641152
RUFY4	NM_198483	cg01648779R	TSS1500	cg01648779
		cg01649661F		cg01649661
		cg01650371R		cg01650371
TNXB	NM_019105	cg01651250F	Body	cg01651250
ZFYVE21	NM_024071	cg01651570R	Body	cg01651570
		cg01656996R		cg01656996
CCDC88C	NM_001080414	cg01657796F	Body	cg01657796
ABLIM1;ABLIM1	NM_001003408;NM_001003	cg01658815F	Body;Body	cg01658815
		cg01659197F		cg01659197
		cg01659483F		cg01659483
EXT1	NM_000127	cg01664039R	Body	cg01664039
RAB40AL	NM_001031834	cg01668907F	TSS200	cg01668907
		cg01669161R		cg01669161
FHDC1	NM_033393	cg01674130R	Body	cg01674130
		cg01675241F		cg01675241
VPS13C;VPS13C;VPS13C	NM_020821;NM_018080;NM_018080	cg01678317F	Body;Body;Body;Body	cg01678317

MARK4	NM_031417	cg01682784F cg01686044F cg01687389F	TSS200	cg01682784 cg01686044 cg01687389
CHFR;CHFR;CHFR;CHFR	NM_001161345;NM_001161	cg01688293R	Body;Body;Body;Body;	cg01688293
ACOT4	NM_152331	cg01691255R cg01692616R	TSS1500	cg01691255 cg01692616
PRMT8	NM_019854	cg01693063R	TSS1500	cg01693063
MTRR;FASTKD3;MTRR	NM_024010;NM_024091;NM_024091	cg01699524R	Body;TSS1500;5'UTR	cg01699524
ZNF668	NM_024706	cg01700035R	5'UTR	cg01700035
HCCA2;KRTAP5-6	NM_053005;NM_001012416	cg01703086F	Body;TSS1500	cg01703086
FBLN7;FBLN7	NM_153214;NM_001128165	cg01703971R	Body;Body	cg01703971
TMUB1;TMUB1	NM_001136044;NM_031434	cg01704862F	TSS200;TSS1500	cg01704862
NFKBIE	NM_004556	cg01708236F	1stExon	cg01708236
RNPS1;RNPS1	NM_080594;NM_006711	cg01708693F cg01709551R	Body;Body	cg01708693 cg01709551
FAM38A	NM_001142864	cg01712359R	Body	cg01712359
C16orf81	NR_024347	cg01714172F	Body	cg01714172
JPH3	NM_020655	cg01714383R	Body	cg01714383
GNAS;GNAS;GNAS;GNA	NM_080425;NM_001077490	cg01715551F	TSS1500;TSS1500;3'UT	cg01715551
BTBD7	NM_001002860	cg01715680R	Body	cg01715680
LASP1	NM_006148	cg01716603R cg01717010F	Body	cg01716603 cg01717010
IPP;IPP;IPP;IPP	NM_005897;NM_001145349	cg01717636R	5'UTR;5'UTR;1stExon;1stExon	cg01717636
LSM5;LSM5;LSM5;LSM5	NM_001139499;NR_024466;	cg01718736R	Body;Body;Body;Body	cg01718736
SMTNL2;SMTNL2	NM_001114974;NM_198501	cg01720228R	TSS1500;TSS1500	cg01720228
FAM89A	NM_198552	cg01720705R	Body	cg01720705
C18orf20	NR_027245	cg01722450R	TSS1500	cg01722450
LOC643406	NR_029405	cg01722584R cg01722933F	TSS200	cg01722584 cg01722933
TMEM184A	NM_001097620	cg01723252F	Body	cg01723252
C22orf9;C22orf9	NM_001009880;NM_015264	cg01727346R cg01727764F	Body;Body	cg01727346 cg01727764
KCNQ1;KCNQ1	NM_000218;NM_181798	cg01734338F	Body;Body	cg01734338
WDR82	NM_025222	cg01736403R	TSS200	cg01736403
MIR769	NR_030412	cg01737592F	TSS200	cg01737592
VPS54;VPS54	NM_001005739;NM_016516	cg01739965F cg01741971F	TSS200;TSS200	cg01739965 cg01741971
ATP11A;ATP11A	NM_015205;NM_032189	cg01744729F	Body;Body	cg01744729
HSPBP1;HSPBP1	NM_012267;NM_001130106	cg01746532F	TSS200;TSS200	cg01746532
SLC22A11	NM_018484	cg01748193R	Body	cg01748193
GNAS;GNAS;GNAS;GNA	NM_001077490;NM_016592	cg01748573F	3'UTR;3'UTR;TSS1500;	cg01748573
CDC42EP4	NM_012121	cg01748699R	Body	cg01748699
AKT1;AKT1	NM_001014432;NM_001014	cg01749142F	TSS1500;TSS1500	cg01749142
HNRNPA3	NM_194247	cg01750051R	3'UTR	cg01750051
OPCML	NM_001012393	cg01751181F	Body	cg01751181
CCDC83	NM_173556	cg01753003R cg01753815R	TSS200	cg01753003 cg01753815
CALML6	NM_138705	cg01755342F	TSS1500	cg01755342
PURB	NM_033224	cg01759437F	TSS200	cg01759437
VAR5;C6orf27	NM_006295;NM_025258	cg01761478F	Body;TSS1500	cg01761478
P2RX6;P2RX6;MGC16703	NM_005446;NM_001159554	cg01763749F	TSS1500;TSS1500;Body	cg01763749
GFI1	NM_005263	cg01766941F cg01769729R	TSS1500	cg01766941 cg01769729
SMYD2	NM_020197	cg01770831F	1stExon	cg01770831

PON2;PON2	NM_000305;NM_001018161	cg01772563F	TSS200;TSS200	cg01772563
SCGB1D1	NM_006552	cg01772980F	TSS200	cg01772980
NSMAF;NSMAF	NM_003580;NM_001144772	cg01774419F cg01775492R cg01776221R	Body;TSS200	cg01774419 cg01775492 cg01776221
SSPO	NM_198455	cg01776278R	TSS1500	cg01776278
CFLAR;CFLAR	NM_003879;NM_001127184	cg01779076R	TSS1500;TSS200	cg01779076
RBL2	NM_005611	cg01783195R cg01783894F	3'UTR	cg01783195 cg01783894
C16orf91	NM_001010878	cg01789926R	Body	cg01789926
MITF;MITF;MITF;MITF	NM_198177;NM_198159;NM_001127184	cg01793161F	Body;Body;Body;Body	cg01793161
KIAA1688	NM_025251	cg01794245R cg01795660R	TSS1500	cg01794245 cg01795660
MTERFD2;MTERFD2;MT	NR_028050;NM_182501;NR_001127184	cg01796333R cg01796902F	Body;3'UTR;Body;Body	cg01796333 cg01796902
RDH16	NM_003708	cg01796929F cg01797371R	TSS1500	cg01796929 cg01797371
PGLYRP4	NM_020393	cg01798266F	5'UTR	cg01798266
TBCD	NM_005993	cg01798341F	Body	cg01798341
DNAH17	NM_173628	cg01799186R	TSS1500	cg01799186
TBCD	NM_005993	cg01799560F	Body	cg01799560
STARD3;STARD3;STARD3	NM_006804;NM_001165937	cg01799856R	5'UTR;5'UTR;5'UTR	cg01799856
C16orf70	NM_025187	cg01799862F cg01801182R	TSS200	cg01799862 cg01801182
MAPK8IP3;MAPK8IP3	NM_001040439;NM_015133	cg01802152R	Body;Body	cg01802152
CLRN2	NM_001079827	cg01802294R cg01802493F	TSS1500	cg01802294 cg01802493
SLC35D1	NM_015139	cg01802975F	Body	cg01802975
SMAD1	NM_005900	cg01803059R cg01803928F	TSS1500	cg01803059 cg01803928
IL7R	NM_002185	cg01804183R	TSS1500	cg01804183
STX1A;STX1A	NM_004603;NM_001165903	cg01804343F	TSS200;TSS200	cg01804343
YTHDC1;YTHDC1	NM_133370;NM_001031732	cg01804429R	TSS1500;TSS1500	cg01804429
HLA-DPA1	NM_033554	cg01804934F	Body	cg01804934
RAGE	NM_014226	cg01806195R	Body	cg01806195
ZNF696	NM_030895	cg01806965F	Body	cg01806965
ITPKA	NM_002220	cg01808706R	Body	cg01808706
KRT17	NM_000422	cg01809214F	TSS200	cg01809214
KLHL36	NM_024731	cg01809437R	Body	cg01809437
KIAA1967;KIAA1967	NM_021174;NM_199205	cg01810593R cg01811418F	Body;Body	cg01810593 cg01811418
ZNF638;ZNF638	NM_014497;NM_001014972	cg01813209R	Body;Body	cg01813209
GRM6	NM_000843	cg01814344F	Body	cg01814344
NOTCH3	NM_000435	cg01814364F cg01815679F cg01815783F cg01819167R cg01823079R	Body	cg01814364 cg01815679 cg01815783 cg01819167 cg01823079
FBXL19	NM_001099784	cg01826858F	Body	cg01826858
MARS2;MARS2	NM_138395;NM_138395	cg01831166F	1stExon;5'UTR	cg01831166
VPS37B	NM_024667	cg01832672F cg01835394F	Body	cg01832672 cg01835394
GYPC;GYPC	NM_016815;NM_002101	cg01835506F cg01836858F	Body;Body	cg01835506 cg01836858

SYCE2	NM_001105578	cg01837375R	TSS1500	cg01837375
RAB5B	NM_002868	cg01843766F	5'UTR	cg01843766
FBRSL1	NM_001142641	cg01845583R	TSS1500	cg01845583
ROBO2;ROBO2	NM_001128929;NM_002942	cg01850561F	Body;Body	cg01850561
DSCR8;DSCR8;DSCR8;D	NR_026838;NR_026840;NR_	cg01852611R	TSS200;TSS200;TSS200	cg01852611
C3orf39;C3orf39	NM_032806;NM_032806	cg01853632F	5'UTR;1stExon	cg01853632
FOXO3;FOXO3	NM_001455;NM_201559	cg01853974F	Body;Body	cg01853974
SLC2A11;SLC2A11;SLC2	NM_001024938;NM_030807	cg01854588F	Body;Body;Body	cg01854588
		cg01858274R		cg01858274
POLR2L	NM_021128	cg01858337F	Body	cg01858337
		cg01858764F		cg01858764
OAZ1	NM_004152	cg01859460R	Body	cg01859460
		cg01860189R		cg01860189
RASSF5;RASSF5;RASSF5	NM_182663;NM_182665;NM_	cg01860753R	Body;5'UTR;Body;1stEx	cg01860753
COQ9;CIAPIN1	NM_020312;NM_020313	cg01861389R	TSS1500;5'UTR	cg01861389
C17orf90;CCDC137	NM_001039842;NM_199287	cg01863510R	Body;TSS1500	cg01863510
		cg01864295F		cg01864295
		cg01864468F		cg01864468
LCE5A	NM_178438	cg01868128F	5'UTR	cg01868128
SCRIB;SCRIB	NM_015356;NM_182706	cg01869698F	Body;Body	cg01869698
ZFR	NM_016107	cg01870619R	Body	cg01870619
ZNF506;ZNF506	NM_001099269;NM_001145	cg01870679R	3'UTR;3'UTR	cg01870679
PCSK6;PCSK6;PCSK6;PC	NM_138324;NM_002570;NM_	cg01870976F	3'UTR;Body;3'UTR;Bod	cg01870976
KIAA0748;KIAA0748	NM_001136030;NM_001098	cg01874152F	5'UTR;TSS1500	cg01874152
PON1	NM_000446	cg01879893R	3'UTR	cg01879893
RTKN;RTKN;RTKN	NM_033046;NM_001015056	cg01880743R	Body;5'UTR;Body	cg01880743
C1orf159	NM_017891	cg01881456F	5'UTR	cg01881456
LRRC33	NM_198565	cg01883054F	Body	cg01883054
LOC401010	NR_002826	cg01884014F	TSS200	cg01884014
KIDINS220	NM_020738	cg01885559F	5'UTR	cg01885559
COL18A1;COL18A1;COL	NM_130444;NM_030582;NM_	cg01885814F	Body;Body;Body	cg01885814
ZHX2	NM_014943	cg01886570R	Body	cg01886570
IFITM1	NM_003641	cg01886988F	TSS1500	cg01886988
HERC1	NM_003922	cg01888129R	TSS200	cg01888129
RAB32	NM_006834	cg01892997F	TSS1500	cg01892997
BTBD9;BTBD9	NM_052893;NM_001099272	cg01894352R	TSS1500;TSS1500	cg01894352
MTA1	NM_004689	cg01895890F	Body	cg01895890
		cg01896999F		cg01896999
SCTR	NM_002980	cg01897036F	TSS1500	cg01897036
		cg01898433F		cg01898433
SOST	NM_025237	cg01898628F	TSS200	cg01898628
		cg01898867F		cg01898867
IP6K2;IP6K2;IP6K2;IP6K2	NM_001146179;NM_001005	cg01899001R	TSS200;TSS200;TSS200	cg01899001
TNFAIP8L2	NM_024575	cg01903374F	5'UTR	cg01903374
TRIM15	NM_033229	cg01905142F	1stExon	cg01905142
TMEM105	NM_178520	cg01905773F	5'UTR	cg01905773
GOLGA2L1	NM_017600	cg01905902F	Body	cg01905902
LOC100128977	NR_024559	cg01906170F	Body	cg01906170
ODF2L;ODF2L	NM_020729;NM_001007022	cg01906994F	TSS1500;TSS1500	cg01906994
LOC645166;LOC645166;L	NR_027354;NR_027356;NR_	cg01907476F	TSS1500;Body;Body	cg01907476
PRDM16;PRDM16	NM_022114;NM_199454	cg01909160R	Body;Body	cg01909160
MT2A	NM_005953	cg01910484F	TSS1500	cg01910484
		cg01911400R		cg01911400
NR4A3;NR4A3;NR4A3	NM_173199;NM_173198;NM_	cg01917626R	5'UTR;5'UTR;5'UTR	cg01917626

KARS;KARS	NM_005548;NM_001130089	cg01921773F	3'UTR;3'UTR	cg01921773
ADIPOR2	NM_024551	cg01924292F	5'UTR	cg01924292
		cg01925662R		cg01925662
SMPDL3B;SMPDL3B	NM_001009568;NM_014474	cg01928145R	Body;Body	cg01928145
MATN1	NM_002379	cg01928910R	Body	cg01928910
		cg01930417F		cg01930417
TPCN2	NM_139075	cg01930488R	TSS200	cg01930488
CD164;CD164;CD164;CD164	NM_001142402;NM_001142	cg01932459R	1stExon;1stExon;1stExo	cg01932459
		cg01932688F		cg01932688
		cg01933477F		cg01933477
		cg01933836R		cg01933836
		cg01934638F		cg01934638
LSM2;LSM2	NM_021177;NM_021177	cg01937314R	1stExon;5'UTR	cg01937314
ITGAX	NM_000887	cg01937932R	Body	cg01937932
		cg01938825F		cg01938825
		cg01938973F		cg01938973
RGSL1	NM_001137669	cg01939443F	Body	cg01939443
ARHGEF4;ARHGEF4	NM_032995;NM_015320	cg01939924R	Body;Body	cg01939924
FLNC;FLNC	NM_001127487;NM_001458	cg01940964F	Body;Body	cg01940964
MB;MB;MB	NM_005368;NM_203378;NM_01945840	cg01945840F	TSS1500;TSS200;5'UTR	cg01945840
PACS2;PACS2	NM_015197;NM_001100913	cg01947482R	Body;Body	cg01947482
GTF2A1;GTF2A1	NM_201595;NM_015859	cg01948210F	5'UTR;Body	cg01948210
		cg01951617F		cg01951617
MIR548F5;NBEA;MAB21	NR_031646;NM_015678;NM_01952313	cg01952313R	Body;Body;TSS200	cg01952313
PUS10	NM_144709	cg01953819F	Body	cg01953819
TSNARE1	NM_145003	cg01957751R	Body	cg01957751
TMEM82	NM_001013641	cg01963294R	Body	cg01963294
AGFG1;AGFG1;AGFG1;ANM_001135187;NM_001135	cg01963464F	cg01963464F	Body;Body;Body;Body	cg01963464
BEND3	NM_001080450	cg01963573R	3'UTR	cg01963573
ARVCF	NM_001670	cg01963885F	TSS200	cg01963885
		cg01966732R		cg01966732
		cg01968363R		cg01968363
OTUD4;OTUD4;OTUD4	NM_001102653;NM_017493	cg01968759R	TSS1500;TSS1500;TSS1500	cg01968759
AMBRA1	NM_017749	cg01969433R	Body	cg01969433
MLLT1	NM_005934	cg01969558F	Body	cg01969558
PCGF3	NM_006315	cg01969796F	Body	cg01969796
COL23A1	NM_173465	cg01970383R	Body	cg01970383
		cg01971203F		cg01971203
		cg01972316F		cg01972316
PITPNM2	NM_020845	cg01973483F	5'UTR	cg01973483
RNU5E;RNU5D;ZCCHC9;NR_002754;NR_002755;NM_01973725	cg01973725R	cg01973725R	Body;Body;3'UTR;3'UTR	cg01973725
C11orf2	NM_013265	cg01981334F	Body	cg01981334
JPH3	NM_020655	cg01981606R	Body	cg01981606
SEMA3E	NM_012431	cg01983393R	Body	cg01983393
COL12A1;COL12A1	NM_004370;NM_080645	cg01983421F	Body;Body	cg01983421
MED16	NM_005481	cg01983759R	3'UTR	cg01983759
ASCL4;ASCL4	NM_203436;NM_203436	cg01985833R	1stExon;3'UTR	cg01985833
NEU4;NEU4;NEU4;NEU4;NM_001167599;NM_001167	cg01987333F	cg01987333F	TSS1500;5'UTR;5'UTR;	cg01987333
GALNS	NM_000512	cg01988233R	Body	cg01988233
ZNF765	NM_001040185	cg01995718R	3'UTR	cg01995718
AGPAT3;AGPAT3	NM_001037553;NM_020132	cg01996920F	Body;Body	cg01996920
CXorf21	NM_025159	cg01997953F	5'UTR	cg01997953
PFDN4	NM_002623	cg01999086F	TSS200	cg01999086
CDC10L	NR_027269	cg02002400R	Body	cg02002400

HECW1	NM_015052	cg02003457F	Body	cg02003457
DNAH3	NM_017539	cg02005231F	Body	cg02005231
		cg02008279F		cg02008279
PHLDA2	NM_003311	cg02011054F	TSS200	cg02011054
ALX3	NM_006492	cg02011351F	Body	cg02011351
TRIM15	NM_033229	cg02012483R	1stExon	cg02012483
NLRC3	NM_178844	cg02016178R	TSS1500	cg02016178
WFDC5	NM_145652	cg02016723R	Body	cg02016723
BANP;BANP	NM_017869;NM_079837	cg02018798R	Body;Body	cg02018798
		cg02019873F		cg02019873
ZNF362	NM_152493	cg02020616R	Body	cg02020616
PACS1	NM_018026	cg02021485F	Body	cg02021485
		cg02022978R		cg02022978
PRKAR1B;PRKAR1B;PRKNM_001164759;NM_001164		cg02025656F	Body;Body;Body;Body;	cg02025656
		cg02028297R		cg02028297
C16orf58	NM_022744	cg02028489R	Body	cg02028489
MYO10	NM_012334	cg02029841F	Body	cg02029841
FAM198A	NM_001129908	cg02033040R	Body	cg02033040
		cg02038558F		cg02038558
PDCD7	NM_005707	cg02039712R	1stExon	cg02039712
FNDC3A;FNDC3A	NM_001079673;NM_014923	cg02043329R	Body;Body	cg02043329
		cg02044172F		cg02044172
		cg02044621F		cg02044621
RET;RET	NM_020630;NM_020975	cg02045259F	TSS200;TSS200	cg02045259
		cg02046247F		cg02046247
ZNF627	NM_145295	cg02046941F	TSS1500	cg02046941
		cg02048317R		cg02048317
SCN2B	NM_004588	cg02049955R	Body	cg02049955
PODXL;PODXL;PODXL;PNM_005397;NM_001018111		cg02051077R	5'UTR;1stExon;5'UTR;1	cg02051077
LITAF;LITAF;LITAF;LIT	NR_024320;NM_004862;NM	cg02051924R	TSS200;TSS1500;TSS15	cg02051924
		cg02051982R		cg02051982
RABGAP1L	NM_014857	cg02052548R	Body	cg02052548
PARD6B;PARD6B	NM_032521;NM_032521	cg02053340R	5'UTR;1stExon	cg02053340
C20orf166;C20orf200	NM_178463;NM_152757	cg02053807R	TSS1500;5'UTR	cg02053807
		cg02055607R		cg02055607
OSBPL10	NM_017784	cg02057211F	Body	cg02057211
MSL1	NM_001012241	cg02057783R	TSS1500	cg02057783
OR5V1	NM_030876	cg02057917F	1stExon	cg02057917
ZNF428	NM_182498	cg02059080F	TSS1500	cg02059080
		cg02059586R		cg02059586
SSH1;SSH1;SSH1	NM_001161331;NM_001161	cg02059980F	Body;Body;Body	cg02059980
		cg02060919R		cg02060919
SLC25A46	NM_138773	cg02061660F	Body	cg02061660
DIP2C	NM_014974	cg02061711F	Body	cg02061711
TNFRSF25;PLEKHG5;TNFNM_003790;NM_001042663		cg02064442F	TSS200;3'UTR;TSS200;	cg02064442
		cg02064499R		cg02064499
TECTA	NM_005422	cg02064831F	Body	cg02064831
		cg02065249R		cg02065249
ADARB2	NM_018702	cg02069524R	Body	cg02069524
		cg02071267F		cg02071267
FAM43A	NM_153690	cg02072170R	TSS1500	cg02072170
CLUAP1	NM_015041	cg02073511F	TSS200	cg02073511
GSTA3	NM_000847	cg02075593R	5'UTR	cg02075593
OR2T6	NM_001005471	cg02077084R	TSS1500	cg02077084





GPC6	NM_005708	cg02165670R	Body	cg02165670
SRPK2	NM_182692	cg02170577R	Body	cg02170577
		cg02177951R		cg02177951
		cg02179473R		cg02179473
MDGA2	NM_001113498	cg02180424R	Body	cg02180424
CD38;CD38	NM_001775;NM_001775	cg02183671F	1stExon;5'UTR	cg02183671
		cg02184092R		cg02184092
		cg02184175F		cg02184175
		cg02184338F		cg02184338
ASAM	NM_024769	cg02184673F	TSS1500	cg02184673
FAM49A	NM_030797	cg02187259F	5'UTR	cg02187259
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg02187822R	5'UTR;Body	cg02187822
FAM57B	NM_031478	cg02190038F	TSS1500	cg02190038
TRIM26	NM_003449	cg02191233R	5'UTR	cg02191233
		cg02193355F		cg02193355
		cg02194842F		cg02194842
ATP11A;ATP11A	NM_015205;NM_032189	cg02196036R	Body;Body	cg02196036
LOC349114	NR_026999	cg02196745F	Body	cg02196745
TMEM156	NM_024943	cg02198513R	Body	cg02198513
		cg02201239F		cg02201239
MIIP	NM_021933	cg02202858R	TSS1500	cg02202858
RGMA;RGMA;RGMA;RGMA	NM_001166289;NM_001166	cg02206137F	Body;Body;Body;Body;	cg02206137
ACER3	NM_018367	cg02208432R	TSS1500	cg02208432
DLGAP4	NM_014902	cg02209770R	Body	cg02209770
BDH2;BDH2	NM_020139;NM_020139	cg02214188F	1stExon;5'UTR	cg02214188
PLA2G3	NM_015715	cg02214441F	TSS1500	cg02214441
NFATC2IP	NM_032815	cg02215815R	Body	cg02215815
UGGT2	NM_020121	cg02217586R	Body	cg02217586
		cg02218496R		cg02218496
UGT2A2;UGT2A1	NM_001105677;NM_006798	cg02219607R	1stExon;Body	cg02219607
BHLHE40	NM_003670	cg02220837F	Body	cg02220837
		cg02222454F		cg02222454
CDH5	NM_001795	cg02223351F	5'UTR	cg02223351
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_181552	cg02224047R	Body;Body;Body	cg02224047
PCDH15;PCDH15;PCDH15	NM_001142768;NM_001142	cg02224394F	Body;Body;Body;Body;	cg02224394
RAGE	NM_014226	cg02225520R	3'UTR	cg02225520
SCNN1B	NM_000336	cg02227002F	5'UTR	cg02227002
FLJ23834	NM_152750	cg02228042R	TSS1500	cg02228042
		cg02232284F		cg02232284
MYO3A	NM_017433	cg02232704F	3'UTR	cg02232704
FBR3	NM_001105079	cg02234847R	TSS1500	cg02234847
		cg02235066F		cg02235066
CLEC3B	NM_003278	cg02235659R	TSS1500	cg02235659
ZNF100	NM_173531	cg02237493F	Body	cg02237493
		cg02237629R		cg02237629
TET3	NM_144993	cg02237855F	3'UTR	cg02237855
SLC43A2	NM_152346	cg02238950R	Body	cg02238950
UTRN	NM_007124	cg02241111R	TSS1500	cg02241111
		cg02242681F		cg02242681
TM6SF1;TM6SF1	NM_023003;NM_001144903	cg02245485R	Body;Body	cg02245485
JPH3	NM_020655	cg02246800R	Body	cg02246800
ATAD5	NM_024857	cg02246992F	TSS1500	cg02246992
PRKAG3	NM_017431	cg02251224F	3'UTR	cg02251224
		cg02254876R		cg02254876

MFSD6L;MFSD6L	NM_152599;NM_152599	cg02255914F	1stExon;3'UTR	cg02255914
AMBRA1	NM_017749	cg02257029F	Body	cg02257029
RYR1;RYR1	NM_000540;NM_0010427	23 cg02258614F	Body;Body	cg02258614
RPL19	NM_000981	cg02258972F	Body	cg02258972
		cg02260098R		cg02260098
SCN5A;SCN5A;SCN5A;S	NM_001160161;NM_001099	cg02260750F	Body;Body;Body;Body;B	cg02260750
FAM172A;FAM172A;FAMNR_028080;NM_032042;NM		cg02262037F	Body;Body;Body;Body	cg02262037
PCDH15;PCDH15;PCDH1	NM_001142768;NM_001142	cg02262873F	Body;Body;Body;Body;B	cg02262873
ZNF321	NM_203307	cg02262987R	TSS200	cg02262987
		cg02263426R		cg02263426
		cg02265742R		cg02265742
CPM	NM_001874	cg02266731R	TSS1500	cg02266731
BANP;BANP	NM_017869;NM_079837	cg02267536R	Body;Body	cg02267536
CTXN1	NM_206833	cg02267698R	TSS200	cg02267698
		cg02269643R		cg02269643
		cg02273106F		cg02273106
		cg02275243R		cg02275243
UFC1	NM_016406	cg02276269F	TSS1500	cg02276269
ZFYVE21	NM_024071	cg02277235F	Body	cg02277235
		cg02278728F		cg02278728
		cg02279153F		cg02279153
AUH	NM_001698	cg02280038F	TSS1500	cg02280038
HHIPL1;HHIPL1	NM_032425;NM_001127258	cg02283151F	TSS1500;TSS1500	cg02283151
		cg02284982F		cg02284982
		cg02287105R		cg02287105
SNX10	NM_013322	cg02290197F	5'UTR	cg02290197
RABL5;RABL5;RABL5;R	NM_001130822;NM_001130	cg02290575R	5'UTR;Body;Body;5'UTR	cg02290575
DLGAP2	NM_004745	cg02290578R	Body	cg02290578
C1orf93;C1orf93	NM_152371;NM_152371	cg02292066R	5'UTR;1stExon	cg02292066
		cg02293228R		cg02293228
ASXL2	NM_018263	cg02295389F	Body	cg02295389
MAPK8IP3;MAPK8IP3	NM_001040439;NM_015133	cg02295856R	Body;Body	cg02295856
NFIX	NM_002501	cg02297936R	3'UTR	cg02297936
VPS72;TMOD4	NM_005997;NM_013353	cg02301754R	Body;TSS1500	cg02301754
MLKL;MLKL	NM_001142497;NM_152649	cg02303386F	TSS1500;TSS1500	cg02303386
NKAIN4	NM_152864	cg02304628R	3'UTR	cg02304628
HSPH1	NM_006644	cg02309157R	Body	cg02309157
		cg02313118R		cg02313118
NEBL;NEBL	NM_213569;NM_006393	cg02313589R	3'UTR;3'UTR	cg02313589
GTPBP3;GTPBP3;GTPBP3	NM_133644;NM_001128855	cg02316735F	Body;Body;Body	cg02316735
PAK2	NM_002577	cg02319016F	5'UTR	cg02319016
TCIRG1;TCIRG1	NM_006053;NM_006019	cg02322435F	Body;Body	cg02322435
C2orf53	NM_178553	cg02323296R	TSS1500	cg02323296
SPATA1;GNG5	NM_001081472;NM_005274	cg02325880R	TSS1500;Body	cg02325880
		cg02326224R		cg02326224
MGLL;MGLL;MGLL	NM_001003794;NM_007283	cg02328223R	5'UTR;TSS1500;1stExon	cg02328223
		cg02329140R		cg02329140
ANO10	NM_018075	cg02330114R	TSS200	cg02330114
		cg02331189R		cg02331189
CASZ1;CASZ1	NM_001079843;NM_017766	cg02335988R	5'UTR;5'UTR	cg02335988
		cg02338963F		cg02338963
DNAJC5	NM_025219	cg02339015F	Body	cg02339015
NBEA	NM_015678	cg02340053R	Body	cg02340053
RPL23;SNORA21	NM_000978;NR_002576	cg02340063R	Body;TSS200	cg02340063

FRMD4A	NM_018027	cg02347573R cg02350644R cg02351018R cg02352252F cg02352328R cg02352401R	Body	cg02347573 cg02350644 cg02351018 cg02352252 cg02352328 cg02352401
ADCY3	NM_004036	cg02353427F cg02354916F	Body	cg02353427 cg02354916
NEURL1B	NM_001142651	cg02358362R	Body	cg02358362
MCM6	NM_005915	cg02358653F	Body	cg02358653
C1orf228	NM_001145636	cg02359160F	Body	cg02359160
SHC2	NM_012435	cg02360676R cg02360868R	3'UTR	cg02360676 cg02360868
GATA6	NM_005257	cg02360939F	Body	cg02360939
LOC100294362	NR_029376	cg02367992F	Body	cg02367992
PDE11A;PDE11A	NM_016953;N L_001077197	cg02369725F	1stExon;Body	cg02369725
SORBS1;SORBS1;SORBS	NM_006434;NM_001034956	cg02370232F cg02370636F	Body;Body;Body;Body;	cg02370232 cg02370636
ABCC1;ABCC1;ABCC1;ANM_019862;NM_019898;NM_019898	NR_031644;NM_014141	cg02370953R cg02372744R	Body;Body;Body;Body;	cg02370953 cg02372744
MIR548F3;CNTNAP2	NR_031644;NM_014141	cg02373104R	Body;Body	cg02373104
CTNNBL1	NM_030877	cg02374680F	TSS200	cg02374680
PIGV;PIGV	NM_017837;NM_017837	cg02375201F	5'UTR;1stExon	cg02375201
NEURL1B	NM_001142651	cg02376843F	Body	cg02376843
SMARCA4;SMARCA4;SMARCA4	NM_003072;NM_001128848	cg02393535F	5'UTR;TSS1500;5'UTR;TSS1500	cg02393535
RGS7	NM_002924	cg02395863R cg02397533F	Body	cg02395863 cg02397533
RIMBP2	NM_015347	cg02398319R cg02400162F	Body	cg02398319 cg02400162
ZSCAN22	NM_181846	cg02400474R	5'UTR	cg02400474
EFEMP2	NM_016938	cg02403180F	TSS200	cg02403180
JAK2	NM_004972	cg02405213R cg02406531R cg02409364R	Body	cg02405213 cg02406531 cg02409364
CHRNB3	NM_000749	cg02411937F	Body	cg02411937
RNF157	NM_052916	cg02413097R cg02416013R	Body	cg02413097 cg02416013
KRTAP6-2	NM_181604	cg02416336R cg02419873F	1stExon	cg02416336 cg02419873
WDR60	NM_018051	cg02422616F	Body	cg02422616
SNX1;SNX1;SNX1	NM_152826;NM_148955;NM_148955	cg02423014F	Body;Body;Body	cg02423014
CDK19	NM_015076	cg02424007F	Body	cg02424007
ARL6IP1	NM_015161	cg02426912F cg02429035F	TSS200	cg02426912 cg02429035
CHMP4B	NM_176812	cg02435593F	1stExon	cg02435593
GATA2	NM_032638	cg02436004F	5'UTR	cg02436004
ZNF702P	NR_003578	cg02440177F cg02445536R	Body	cg02440177 cg02445536
ATG4D;MIR1238	NM_032885;NR_031603	cg02446225R	Body;TSS200	cg02446225
RBM44	NM_001080504	cg02447287R	TSS1500	cg02447287
C16orf58	NM_022744	cg02447779F cg02448481R	Body	cg02447779 cg02448481
EBF3	NM_001005463	cg02449166F cg02452460F	Body	cg02449166 cg02452460

ARHGEF19	NM_153213	cg02455792F cg02456451F	3'UTR	cg02455792 cg02456451
CSF1;CSF1;CSF1;CSF1 TBL3	NM_000757;NM_172212;NM_006453	cg02457085R cg02458384F	Body;Body;Body;Body TSS1500	cg02457085 cg02458384
SLC45A1	NM_001080397	cg02460223F	Body	cg02460223
BRD2;BRD2	NM_001113182;NM_005104	cg02462443F	Body;Body	cg02462443
SEMA6A	NM_020796	cg02464338R	Body	cg02464338
ZC3H12D	NM_207360	cg02464487F	TSS200	cg02464487
FANCC	NM_000136	cg02466749R	5'UTR	cg02466749
YWHAQ	NM_006826	cg02466933F cg02467451R	Body	cg02466933 cg02467451
HSD17B12	NM_016142	cg02468154F	Body	cg02468154
SEPT2;SEPT2;HDLBP;SE	NM_001008491;NM_004404	cg02469457F cg02473643F	1stExon;TSS1500;5'UTR	cg02469457 cg02473643
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg02474109F cg02474890R cg02477838R	Body;Body;Body	cg02474109 cg02474890 cg02477838
SMAD6;SMAD6;SMAD6	NM_001142861;NM_005585	cg02478158R	3'UTR;3'UTR;Body	cg02478158
ABT1	NM_013375	cg02478829R	Body	cg02478829
LRRC14	NM_014665	cg02479773F	3'UTR	cg02479773
DHRS7B	NM_015510	cg02483458F cg02485410F	Body	cg02483458 cg02485410
MSLNL	NM_001025190	cg02485642F	TSS200	cg02485642
CLIC6	NM_053277	cg02488385R	1stExon	cg02488385
SLC16A11	NM_153357	cg02489908R	Body	cg02489908
ODF1	NM_024410	cg02490182R	TSS200	cg02490182
MICALL2	NM_182924	cg02492818R	Body	cg02492818
KCNH2;KCNH2	NM_172056;NM_000238	cg02492920F	Body;Body	cg02492920
CSAG1;MAGEA12;MAGEN	NM_153478;NM_005367;NM_02504280F	cg02504280F cg02504716R cg02505454F	Body;TSS1500;TSS1500	cg02504280 cg02504716 cg02505454
C16orf75	NM_152308	cg02507033F	Body	cg02507033
C5orf38	NM_178569	cg02509058F	Body	cg02509058
NCRNA00173;NCRNA001	NR_027346;NR_027345	cg02510297F	Body;Body	cg02510297
ZCCHC24	NM_153367	cg02510736F cg02512395F	TSS200	cg02510736 cg02512395
CNTNAP2	NM_014141	cg02515738R	Body	cg02515738
CALD1;CALD1;CALD1;C	NM_033139;NM_033157;NM_02516134R	cg02516134R	TSS1500;Body;TSS1500	cg02516134
TMCO3	NM_017905	cg02519625F cg02520910R	Body	cg02519625 cg02520910
UBE2K;UBE2K;UBE2K	NM_001111113;NM_005339	cg02523617R cg02524904F	TSS1500;TSS1500;TSS1500	cg02523617 cg02524904
LRRC27;LRRC27;LRRC27	NM_001143757;NM_030626	cg02535060R	Body;Body;Body;Body;	cg02535060
FHDC1	NM_033393	cg02540307R cg02544571F	Body	cg02540307 cg02544571
OLIG3	NM_175747	cg02550277R	TSS200	cg02550277
SIM2;SIM2	NM_009586;NM_005069	cg02553516R	Body;Body	cg02553516
SLC25A2	NM_031947	cg02553537F	1stExon	cg02553537
KIAA0748	NM_001136030	cg02554168F cg02556005F cg02557922F	TSS200	cg02554168 cg02556005 cg02557922
MIR548F5;NBEA	NR_031646;NM_015678	cg02558362R	Body;Body	cg02558362
TMEM181	NM_020823	cg02562419F	Body	cg02562419
PODN	NM_153703	cg02562544R	Body	cg02562544

FHL2;FHL2;FHL2;FHL2	NM_201557;NM_201555;NM_201555	cg02563156F cg02563349R	3'UTR;3'UTR;3'UTR;3'UTR	cg02563156 cg02563349
EFCAB4A	NM_173584	cg02563906R	Body	cg02563906
DCBLD2	NM_080927	cg02564302R	Body	cg02564302
FBRSL1	NM_001142641	cg02565297F	Body	cg02565297
CSK;CSK	NM_004383;NM_001127190	cg02566978R cg02567289F	5'UTR;5'UTR	cg02566978 cg02567289
LOC401052	NM_001008737	cg02569759R	5'UTR	cg02569759
SFXN5	NM_144579	cg02571470F	Body	cg02571470
BAT2	NM_080686	cg02572517R	Body	cg02572517
ACSL5;ACSL5;ACSL5	NM_016234;NM_203379;NM_203379	cg02574374R	Body;Body;Body	cg02574374
DPF2	NM_006268	cg02574952F	Body	cg02574952
PIGY;PIGY	NM_001042616;NM_032906	cg02576938R	3'UTR;3'UTR	cg02576938
MIR493	NR_030172	cg02577745F	TSS1500	cg02577745
RBMS3;RBMS3;RBMS3	NM_001003792;NM_001003	cg02578184F	Body;Body;Body	cg02578184
MCM2	NM_004526	cg02578470F cg02580917R cg02582057R	Body	cg02578470 cg02580917 cg02582057
EVPL	NM_001988	cg02582391R	Body	cg02582391
CFDP1	NM_006324	cg02583183F	Body	cg02583183
BCAT1	NM_005504	cg02585702R cg02586852F cg02587383F cg02589067R	Body	cg02585702 cg02586852 cg02587383 cg02589067
FLYWCH1;FLYWCH1	NM_020912;NM_032296	cg02593884R	Body;Body	cg02593884
SH3BP4	NM_014521	cg02595183R	5'UTR	cg02595183
RASGRF1;RASGRF1;RASGRF1	NM_153815;NM_001145648	cg02597493F	TSS1500;Body;Body	cg02597493
NCAPH	NM_015341	cg02598224R cg02600413R cg02600478R	TSS200	cg02598224 cg02600413 cg02600478
TNXB	NM_019105	cg02600478R	Body	cg02600478
ATP6V0D1	NM_004691	cg02600514F cg02602533R	Body	cg02600514 cg02602533
HCG2P7	NR_001318	cg02603304F cg02604018F	TSS1500	cg02603304 cg02604018
NSUN5;NSUN5;NSUN5;NSUN5	NM_018044;NM_148956;NM_148956;NM_148956	cg02605760R	TSS1500;TSS1500;TSS1500;TSS1500	cg02605760
SBDS	NM_016038	cg02605800F cg02606018R	Body	cg02605800 cg02606018
TSPY4;TSPY4	NM_001164471;NM_001164	cg02606988F	Body;Body	cg02606988
KLF7	NM_003709	cg02607779R	TSS200	cg02607779
ZFPM1	NM_153813	cg02609850R	Body	cg02609850
CREB5;CREB5	NM_182899;NM_182899	cg02611282F cg02611675F cg02611874F cg02611998F	5'UTR;1stExon	cg02611282 cg02611675 cg02611874 cg02611998
MINPP1	NM_004897	cg02614016R cg02617560R cg02619464R cg02619867R cg02620147R	TSS1500	cg02614016 cg02617560 cg02619464 cg02619867 cg02620147
SDHC;SDHC;SDHC;SDHC	LOC600000;NM_001035512;NM_001035	cg02620307R	TSS200;TSS200;TSS200;TSS200	cg02620307
MCOLN2	NM_153259	cg02621376R	Body	cg02621376
SNX19;SNX19	NM_014758;NM_014758	cg02624129F	1stExon;5'UTR	cg02624129
AANAT;UBE2O	NM_001166579;NM_022066	cg02624680R	TSS1500;1stExon	cg02624680
ARL5C	NM_001143968	cg02624690R	TSS1500	cg02624690

PRDX6	NM_004905	cg02624704F	TSS200	cg02624704
NRBP2	NM_178564	cg02624737R	5'UTR	cg02624737
		cg02626657R		cg02626657
		cg02627599F		cg02627599
		cg02627991R		cg02627991
EYS	NM_001142800	cg02628401R	Body	cg02628401
		cg02630168R		cg02630168
PDE3A	NM_000921	cg02631767F	Body	cg02631767
RUNX1;RUNX1;RUNX1	NM_001001890;NM_001122	cg02635869F	TSS1500;TSS1500;Body	cg02635869
MED13	NM_005121	cg02636057F	TSS1500	cg02636057
		cg02637282F		cg02637282
ST3GAL1;ST3GAL1	NM_003033;NM_173344	cg02637438R	TSS200;TSS200	cg02637438
KIDINS220	NM_020738	cg02639181F	TSS1500	cg02639181
		cg02639546R		cg02639546
CA5A	NM_001739	cg02640691R	Body	cg02640691
PRDXDD1P	NR_027258	cg02642298R	TSS1500	cg02642298
FAM36A	NM_198076	cg02642404R	TSS200	cg02642404
CBS	NM_000071	cg02644491F	Body	cg02644491
FAM107B	NM_031453	cg02644610R	Body	cg02644610
CORO7	NM_024535	cg02647989F	Body	cg02647989
MCF2L;MCF2L	NM_001112732;NM_024979	cg02650286F	Body;Body	cg02650286
PILRB;PMS2L1;PILRB	NM_175047;NR_003613;NM	cg02650789F	5'UTR;TSS1500;5'UTR	cg02650789
GMPR	NM_006877	cg02652321F	Body	cg02652321
IL21R	NM_181078	cg02656594R	TSS1500	cg02656594
ADAP1	NM_006869	cg02656801F	Body	cg02656801
		cg02656873F		cg02656873
STON2;STON2	NM_033104;NM_033104	cg02657438R	1stExon;5'UTR	cg02657438
PPM1G;PPM1G	NM_002707;NM_177983	cg02657505R	Body;Body	cg02657505
		cg02657654R		cg02657654
NRBP2	NM_178564	cg02658043R	3'UTR	cg02658043
SLC22A18;SLC22A18	NM_183233;NM_002555	cg02660089F	Body;Body	cg02660089
		cg02661764F		cg02661764
NOTCH4	NM_004557	cg02662596F	TSS1500	cg02662596
C9orf69;C9orf69	NM_152833;NM_152833	cg02668708R	1stExon;5'UTR	cg02668708
MAL2	NM_052886	cg02671915F	Body	cg02671915
MST1P2	NR_027504	cg02675083R	Body	cg02675083
SPTBN4	NM_020971	cg02675646R	Body	cg02675646
		cg02676495R		cg02676495
FLI1;FLI1	NM_002017;NM_001167681	cg02677035F	Body;5'UTR	cg02677035
		cg02678462R		cg02678462
		cg02678476R		cg02678476
		cg02679172F		cg02679172
SIRT6;ANKRD24	NM_016539;NM_133475	cg02683314R	TSS200;TSS1500	cg02683314
HDGFL1	NM_138574	cg02685945R	1stExon	cg02685945
		cg02691192F		cg02691192
		cg02693279R		cg02693279
		cg02694521F		cg02694521
RGPD2	NM_001078170	cg02699432R	TSS200	cg02699432
DYNLL1;SFRS9	NM_001037494;NM_003769	cg02699780F	TSS1500;1stExon	cg02699780
MCART3P	NR_026540	cg02700348R	Body	cg02700348
SIM2;SIM2	NM_009586;NM_005069	cg02701080R	Body;Body	cg02701080
TRIM10;TRIM10	NM_006778;NM_052828	cg02703235R	Body;Body	cg02703235
MYO5C	NM_018728	cg02703248F	Body	cg02703248
C3orf24;C3orf24	NM_001164839;NM_173472	cg02703816R	TSS1500;TSS1500	cg02703816

SYCE2	NM_001105578	cg02704667R	Body	cg02704667
WDR90	NM_145294	cg02705487F	Body	cg02705487
VPS26A;VPS26A	NM_001035260;NM_004896	cg02705940F cg02706919R cg02708506R cg02708704R	Body;Body	cg02705940 cg02706919 cg02708506 cg02708704
CCDC33	NM_025055	cg02708758R	Body	cg02708758
HDAC4	NM_006037	cg02708956F	5'UTR	cg02708956
HSPA12A	NM_025015	cg02709100R	Body	cg02709100
CBFB;CBFB	NM_001755;NM_022845	cg02709840R	TSS200;TSS200	cg02709840
CSAD	NM_015989	cg02710461F	Body	cg02710461
FAM49B	NM_016623	cg02711724R	Body	cg02711724
LOC100287216;SH3RF3	NR_029193;NM_001099289	cg02713669R	TSS200;Body	cg02713669
BNC1	NM_001717	cg02713760R	TSS1500	cg02713760
CSNK1A1;CSNK1A1;CSNNM_001025105;NM_001892		cg02716123R	5'UTR;1stExon;5'UTR;1stExon	cg02716123
SKP1;SKP1	NM_006930;NM_170679	cg02717486R	TSS200;TSS200	cg02717486
C16orf87	NM_001001436	cg02717630F	TSS200	cg02717630
ZNF816A	NM_001031665	cg02717840F	5'UTR	cg02717840
C11orf66;C11orf66	NM_145017;NM_001170753	cg02717866R	5'UTR;5'UTR	cg02717866
HLA-B	NM_005514	cg02718200F	Body	cg02718200
SUGT1L1;SLC25A15;MIRNR_003365;NM_014252;NR_001182		cg02718464F	Body;3'UTR;TSS1500	cg02718464
KCNMB3;KCNMB3	NM_001163677;NM_171828	cg02720013F	Body;Body	cg02720013
NFIC	NM_205843	cg02720697R	TSS1500	cg02720697
JRK;JRK	NM_003724;NM_001077527	cg02723063F	TSS1500;TSS1500	cg02723063
TRIM59	NM_173084	cg02723904R	TSS200	cg02723904
PLXND1	NM_015103	cg02724127F cg02724556F	TSS200	cg02724127 cg02724556
TFDP1;TFDP1	NR_026580;NM_007111	cg02724903R	Body;Body	cg02724903
ZNF845	NM_138374	cg02727232R cg02728209R cg02730139R cg02734521R	5'UTR	cg02727232 cg02728209 cg02730139 cg02734521
KRT23	NM_015515	cg02735736F cg02735840R	Body	cg02735736 cg02735840
DENND1B;DENND1B	NM_001142795;NM_144977	cg02736602R cg02738677F cg02740308R	Body;Body	cg02736602 cg02738677 cg02740308
HLX	NM_021958	cg02743632F	Body	cg02743632
FKRP;FKRP	NM_024301;NM_001039885	cg02743950F cg02744216R cg02744524R cg02744713F	Body;Body	cg02743950 cg02744216 cg02744524 cg02744713
FAM84A;FAM84A	NM_145175;NM_145175	cg02746381F	1stExon;5'UTR	cg02746381
GAK	NM_005255	cg02746748F	Body	cg02746748
SH3D20;SH3D20	NM_174919;NM_174919	cg02747748F	5'UTR;1stExon	cg02747748
DGKG;DGKG;DGKG	NM_001346;NM_001080744	cg02749735F	Body;Body;Body	cg02749735
YWHAE;YWHAE;YWHA	NM_006761;NM_006761;NR_001182	cg02749789F	1stExon;5'UTR;Body	cg02749789
FBXL14	NM_152441	cg02752529R cg02754224R	Body	cg02752529 cg02754224
PLXNC1	NM_005761	cg02757998F	Body	cg02757998
NKX3-2	NM_001189	cg02758628R	Body	cg02758628
SRF	NM_003131	cg02760007R	1stExon	cg02760007
ODZ4	NM_001098816	cg02760300F cg02764429F	Body	cg02760300 cg02764429

FAM122A;PIP5K1B	NM_138333;NM_003558	cg02765496R	TSS1500;5'UTR	cg02765496
KIF26B	NM_018012	cg02765564F	Body	cg02765564
TPCN1;TPCN1	NM_001143819;NM_017901	cg02766895R	5'UTR;5'UTR	cg02766895
IL34	NM_152456	cg02767382F	3'UTR	cg02767382
MYO15A	NM_016239	cg02768352F	Body	cg02768352
		cg02770672R		cg02770672
		cg02772935F		cg02772935
GPR133	NM_198827	cg02773639F	Body	cg02773639
C6orf129	NM_138493	cg02776628R	Body	cg02776628
LOC100128822	NR_027387	cg02777535R	TSS200	cg02777535
		cg02779535R		cg02779535
MRPL17;MRPL17	NM_022061;NM_022061	cg02780181R	5'UTR;1stExon	cg02780181
		cg02784328R		cg02784328
		cg02786073F		cg02786073
		cg02787917F		cg02787917
		cg02788938R		cg02788938
PPAPDC1A	NM_001030059	cg02790177R	TSS200	cg02790177
TNK2;TNK2	NM_001010938;NM_005781	cg02792022F	TSS200;5'UTR	cg02792022
DIP2C	NM_014974	cg02792136R	Body	cg02792136
GPX6	NM_182701	cg02793507R	Body	cg02793507
ITPR1;ITPR1;ITPR1;EGOTNM_002222;NM_001099952		cg02799411R	Body;Body;Body;TSS1500	cg02799411
HPSE2;HPSE2;HPSE2;HPSNM_001166244;NM_001166		cg02800607R	Body;Body;Body;Body	cg02800607
PFKFB3;PFKFB3	NM_004566;NM_001145443	cg02804289F	Body;Body	cg02804289
AACS	NM_023928	cg02812487R	Body	cg02812487
TCP11L1;TCP11L1	NM_001145541;NM_018393	cg02813542F	Body;Body	cg02813542
FYN;FYN	NM_002037;NM_153048	cg02816367F	5'UTR;TSS1500	cg02816367
SH3PXD2A	NM_014631	cg02818775R	Body	cg02818775
TDRD12	NM_001110822	cg02820072F	TSS200	cg02820072
		cg02820958R		cg02820958
		cg02826775R		cg02826775
		cg02827958F		cg02827958
		cg02829845R		cg02829845
DTNBP1;DTNBP1;DTNBP1;NM_183041;NM_183040;NM_001099952		cg02830023F	Body;Body;Body	cg02830023
DUSP9	NM_001395	cg02830187F	TSS1500	cg02830187
RAF1	NM_002880	cg02830576R	TSS1500	cg02830576
C16orf74	NM_206967	cg02834449R	TSS1500	cg02834449
EVI5L;EVI5L	NM_145245;NM_001159944	cg02836017F	5'UTR;TSS1500	cg02836017
		cg02840092F		cg02840092
NCRNA00200	NR_015376	cg02848996F	Body	cg02848996
		cg02850546F		cg02850546
ADARB2	NM_018702	cg02851212F	Body	cg02851212
		cg02851692F		cg02851692
		cg02852557F		cg02852557
CCHCR1;CCHCR1;CCHCR1;NM_001105563;NM_019052		cg02853115F	Body;Body;Body	cg02853115
		cg02853616R		cg02853616
		cg02854490R		cg02854490
		cg02856338R		cg02856338
		cg02856525F		cg02856525
KLHL26	NM_018316	cg02860749R	3'UTR	cg02860749
		cg02862516R		cg02862516
SNORD115-1	NR_001291	cg02865593R	TSS1500	cg02865593
IL17RA	NM_014339	cg02866761R	TSS200	cg02866761
SLC44A4	NM_025257	cg02867242F	Body	cg02867242
C14orf180	NM_001008404	cg02868468R	TSS1500	cg02868468



DPY19L2P1	NR_002833	cg02869126R	Body	cg02869126
AGPAT3;AGPAT3	NM_001037553;NM_020132	cg02869163R	5'UTR;5'UTR	cg02869163
		cg02870189R		cg02870189
ANUBL1;ANUBL1;ANUBNM_174890;NM_174890;NM_174890		cg02870950F	5'UTR;1stExon;1stExon;	cg02870950
DBNDD1	NM_001042610	cg02872476R	TSS1500	cg02872476
PNMAL2;PNMAL2	NM_020709;NM_020709	cg02876326R	1stExon;3'UTR	cg02876326
		cg02878382R		cg02878382
SART1	NM_005146	cg02878486R	Body	cg02878486
		cg02881082R		cg02881082
ELF5;ELF5	NM_001422;NM_198381	cg02882375F	Body;Body	cg02882375
ABCA17P;ABCA3	NR_003574;NM_001089	cg02882733R	TSS1500;5'UTR	cg02882733
MPRIP;MPRIP	NM_201274;NM_015134	cg02889982R	1stExon;1stExon	cg02889982
GPR153	NM_207370	cg02892189F	TSS1500	cg02892189
C5AR1	NM_001736	cg02892690F	TSS200	cg02892690
DPEP3;DPEP3	NM_022357;NM_001129758	cg02893490R	1stExon;1stExon	cg02893490
MORN1	NM_024848	cg02896354R	Body	cg02896354
ARRDC2;ARRDC2	NM_001025604;NM_001025604	cg02896705R	5'UTR;1stExon	cg02896705
		cg02903279F		cg02903279
POLE	NM_006231	cg02905599R	Body	cg02905599
DNAH17	NM_173628	cg02906503F	Body	cg02906503
HNMT;HNMT;HNMT	NM_001024075;NM_006895	cg02906939F	TSS1500;TSS1500;TSS1500	cg02906939
SNORD17;SNX5;SNX5	NR_003045;NM_014426;NM_014426	cg02912291F	TSS1500;Body;Body	cg02912291
		cg02912580R		cg02912580
GSC2	NM_005315	cg02917246F	TSS1500	cg02917246
EIF3E	NM_001568	cg02918786R	Body	cg02918786
DEPDC6	NM_022783	cg02919712R	TSS1500	cg02919712
ZFP36L1	NM_004926	cg02921350F	TSS1500	cg02921350
ZC3H3	NM_015117	cg02921627F	Body	cg02921627
RAVER1	NM_133452	cg02921920F	Body	cg02921920
		cg02925427R		cg02925427
ZNF593;ZNF593	NM_015871;NM_015871	cg02926005F	1stExon;5'UTR	cg02926005
		cg02926601R		cg02926601
		cg02926820F		cg02926820
		cg02926859F		cg02926859
DUSP5	NM_004419	cg02927679R	Body	cg02927679
LOC730755	NM_001165252	cg02927821R	TSS1500	cg02927821
UPF1	NM_002911	cg02930615R	Body	cg02930615
		cg02931656F		cg02931656
DEFA6	NM_001926	cg02932321R	1stExon	cg02932321
		cg02932843R		cg02932843
RPTOR;RPTOR	NM_001163034;NM_020761	cg02933375F	Body;Body	cg02933375
		cg02934633F		cg02934633
THAP1;THAP1	NM_199003;NM_018105	cg02937313F	TSS1500;TSS1500	cg02937313
CXCR2;CXCR2	NM_001557;NM_001168298	cg02937802R	5'UTR;5'UTR	cg02937802
		cg02938414R		cg02938414
ZNF713	NM_182633	cg02941697R	Body	cg02941697
ZFPM1	NM_153813	cg02944617R	Body	cg02944617
SNX29	NM_001080530	cg02946846F	Body	cg02946846
ANKRD2;ANKRD2	NM_001129981;NM_020349	cg02950892F	TSS1500;TSS1500	cg02950892
DYNLL1;DYNLL1;DYNLL1	NM_003746;NM_001037495	cg02951021F	Body;Body;Body	cg02951021
SYTL2	NM_032943	cg02951344F	TSS200	cg02951344
ACTN1;ACTN1;ACTN1	NM_001130004;NM_001102	cg02951766R	Body;Body;Body	cg02951766
		cg02952548R		cg02952548
PI4KA;SERPIND1	NM_058004;NM_000185	cg02953144F	Body;Body	cg02953144

PBX1	NM_002585	cg02955020F	Body	cg02955020
EGFL8	NM_030652	cg02955100R	5'UTR	cg02955100
NOSTRIN;NOSTRIN	NM_001171631;NM_001171	cg02956320F	5'UTR;1stExon	cg02956320
		cg02956387F		cg02956387
		cg02956962F		cg02956962
PLD4	NM_138790	cg02957433F	Body	cg02957433
ZSWIM7;TTC19;ZSWIM7	NM_001042698;NM_017775	cg02957620R	TSS1500;1stExon;TSS1	cg02957620
TCTE3;C6orf70	NM_174910;NM_018341	cg02958167R	TSS1500;Body	cg02958167
		cg02960904F		cg02960904
COL9A2	NM_001852	cg02961012F	Body	cg02961012
		cg02963641F		cg02963641
JAZF1	NM_175061	cg02963803F	Body	cg02963803
		cg02964182R		cg02964182
C19orf34;CSNK1G2	NM_152771;NM_001319	cg02968914F	TSS1500;5'UTR	cg02968914
ZNF615	NM_198480	cg02969578F	5'UTR	cg02969578
EMILIN1	NM_007046	cg02971253F	Body	cg02971253
FAM181B	NM_175885	cg02973171R	1stExon	cg02973171
NBPF10	NM_001039703	cg02973441R	Body	cg02973441
PPAPDC1A	NM_001030059	cg02976719R	TSS200	cg02976719
CROCC	NM_014675	cg02977466R	Body	cg02977466
		cg02980055F		cg02980055
CGB	NM_000737	cg02981071R	TSS1500	cg02981071
ALOX5AP	NM_001629	cg02982610R	TSS1500	cg02982610
MAGEL2	NM_019066	cg02982734F	1stExon	cg02982734
		cg02984449F		cg02984449
		cg02985139F		cg02985139
		cg02985341F		cg02985341
FRS3	NM_006653	cg02986733R	3'UTR	cg02986733
RPIA;RPIA	NM_144563;NM_144563	cg02988254R	1stExon;5'UTR	cg02988254
ZFP64	NM_199427	cg02991469F	Body	cg02991469
TSNARE1	NM_145003	cg02993564R	Body	cg02993564
DNAJB6	NM_058246	cg02994253R	3'UTR	cg02994253
		cg02996355R		cg02996355
C1orf146	NM_001012425	cg02998281R	TSS200	cg02998281
ING5	NM_032329	cg03000844F	TSS200	cg03000844
EPHA1	NM_005232	cg03002479F	TSS200	cg03002479
		cg03002834R		cg03002834
		cg03005062F		cg03005062
DLGAP2	NM_004745	cg03006172R	5'UTR	cg03006172
		cg03008165F		cg03008165
PELI2	NM_021255	cg03009524F	Body	cg03009524
		cg03010889R		cg03010889
LOC100130093;LOC10013NR_024486;NR_024485		cg03017824R	TSS1500;TSS1500	cg03017824
STAC	NM_003149	cg03018634F	Body	cg03018634
ZNF431	NM_133473	cg03022552F	TSS1500	cg03022552
		cg03029146R		cg03029146
KRTAP6-1	NM_181602	cg03029616R	1stExon	cg03029616
ADCK5	NM_174922	cg03031933F	Body	cg03031933
WRB	NM_004627	cg03033780F	TSS1500	cg03033780
SNORD115-42;SNORD115NR_003357;NR_003302		cg03034103F	TSS200;TSS200	cg03034103
		cg03035657F		cg03035657
LOC641367;ZNF100	NR_024523;NM_173531	cg03036167R	TSS200;Body	cg03036167
SIPA1L1	NM_015556	cg03039797R	Body	cg03039797
		cg03040165R		cg03040165

IL18BP;IL18BP;IL18BP;ILNM_001145057;NM_001039	cg03041532F	5'UTR;5'UTR;5'UTR;1st	cg03041532
GAK	NM_005255	cg03041730R	Body
C20orf95	NM_001164431	cg03044376F	Body
ATP5J;ATP5J;ATP5J;ATP5NM_001003696;NM_001003	cg03044510F	TSS200;TSS200;TSS200	cg03044510
NOL4	NM_003787	cg03045425R	TSS200
		cg03046239R	cg03046239
CENPB	NM_001810	cg03046371R	TSS1500
		cg03046611F	cg03046611
SLC41A1	NM_173854	cg03046812R	5'UTR
		cg03048201F	cg03048201
		cg03049311F	cg03049311
ADPRHL1;ADPRHL1	NM_199162;NM_138430	cg03049340F	Body;Body
PROCA1	NM_152465	cg03049691R	TSS200
S1PR1	NM_001400	cg03050965R	Body
FOXA2;FOXA2	NM_021784;NM_153675	cg03051836F	Body;Body
		cg03052080F	cg03052080
		cg03052431R	cg03052431
SCUBE3	NM_152753	cg03052606F	TSS1500
AGRN	NM_198576	cg03055733R	Body
		cg03056129R	cg03056129
OR2B2	NM_033057	cg03056265R	TSS1500
SF1;SF1;SF1;SF1;SF1;SF1	NM_201997;NM_004630;NM_005634	cg03056341R	5'UTR;1stExon;5'UTR;1st
SCAMP1	NM_004866	cg03056766R	TSS200
TAF4	NM_003185	cg03057951R	Body
GMD5	NM_001500	cg03058444R	Body
TCAM1	NR_002947	cg03061237F	TSS200
		cg03064249R	cg03064249
IFNGR1	NM_000416	cg03065308F	Body
STX18	NM_016930	cg03065503F	Body
		cg03066080F	cg03066080
PNOC	NM_006228	cg03066788F	5'UTR
SNORA52;RPLP2	NR_002585;NM_001004	cg03068958R	TSS1500;Body
GNG7	NM_052847	cg03070741F	5'UTR
RNF213;LOC100294362	NM_020914;NR_029376	cg03072483F	Body;Body
BCAM;BCAM	NM_001013257;NM_005581	cg03074126R	Body;Body
GAMT	NM_000156	cg03076130R	3'UTR
LYL1	NM_005583	cg03077671R	Body
TSNARE1	NM_145003	cg03078816F	Body
SNAI1	NM_005985	cg03078972R	TSS1500
		cg03080105R	cg03080105
PLA2G4E	NM_001080490	cg03080639F	1stExon
		cg03082114F	cg03082114
		cg03088332R	cg03088332
ACOX3;ACOX3	NM_001101667;NM_003501	cg03089878R	Body;Body
ANKRD11	NM_013275	cg03092447R	Body
MYT1L	NM_015025	cg03095607F	Body
EXPH5;EXPH5;EXPH5	NM_001144765;NM_001144	cg03096378R	3'UTR;3'UTR;3'UTR
AMFR	NM_001144	cg03099790R	Body
SMOC2;SMOC2	NM_022138;NM_001166412	cg03101413F	Body;Body
NEURL3	NR_026875	cg03102516R	Body
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_031056	cg03105681R	Body;Body;Body
		cg03105929F	cg03105929
HPCA	NM_002143	cg03107920F	Body
MLLT1	NM_005934	cg03110787F	Body

MPG;MPG;MPG	NM_001015054;NM_002434	cg03110993R	TSS200;TSS1500;TSS1500	cg03110993
HOXA1;HOXA1	NM_153620;NM_005522	cg03116258F	1stExon;1stExon	cg03116258
DENND2A	NM_015689	cg03119784R	TSS1500	cg03119784
AGRN	NM_198576	cg03120284F	Body	cg03120284
DOC2A	NM_003586	cg03121538R	Body	cg03121538
MIR328;ELMO3	NR_029887;NM_024712	cg03125605F	TSS200;Body	cg03125605
INS-IGF2;INS-IGF2	NR_003512;NM_001042376	cg03128167F	Body;Body	cg03128167
FAM41C	NR_027055	cg03128332F	Body	cg03128332
KLC2;RAB1B;KLC2;KLC2	NM_001134774;NM_030981	cg03128921F	3'UTR;TSS1500;3'UTR;	cg03128921
EPN2;EPN2;EPN2	NM_014964;NM_001102664	cg03128972R	TSS200;TSS200;TSS200	cg03128972
KLHL8	NM_020803	cg03129732R	3'UTR	cg03129732
SYTL3	NM_001009991	cg03129962R	Body	cg03129962
EXT1	NM_000127	cg03134051F	Body	cg03134051
ATG16L1;ATG16L1;SCA	NM_030803;NM_017974;NR_000127	cg03136781R	Body;Body;Body	cg03136781
MCF2L;MCF2L	NM_001112732;NM_024979	cg03136916F	Body;Body	cg03136916
		cg03137209F		cg03137209
CASZ1;CASZ1	NM_017766;NM_001079843	cg03137826F	Body;Body	cg03137826
C1D;C1D	NM_173177;NM_006333	cg03138124F	TSS1500;TSS1500	cg03138124
HSF4;HSF4	NM_001040667;NM_001538	cg03140421R	Body;Body	cg03140421
IBTK	NM_015525	cg03142554F	TSS1500	cg03142554
MLXIPL;MLXIPL;MLXIP	NM_032952;NM_032953;NM_032954	cg03144715R	Body;Body;Body;Body	cg03144715
		cg03145290R		cg03145290
NLRC5	NM_032206	cg03146649R	Body	cg03146649
C7orf13;RNF32;RNF32	NR_026865;NM_030936;NM_030937	cg03148428R	TSS200;1stExon;5'UTR	cg03148428
SLCO4A1	NM_016354	cg03151194F	Body	cg03151194
PPFIA3	NM_003660	cg03155271F	Body	cg03155271
WDR66	NM_144668	cg03160057F	Body	cg03160057
		cg03161744F		cg03161744
PCGF3	NM_006315	cg03162143R	3'UTR	cg03162143
RALY;RALY	NM_016732;NM_007367	cg03168008F	5'UTR;5'UTR	cg03168008
		cg03169257F		cg03169257
TNXB	NM_019105	cg03169843R	Body	cg03169843
		cg03171402F		cg03171402
		cg03171659F		cg03171659
PCDH1;PCDH1	NM_032420;NM_002587	cg03172688F	Body;Body	cg03172688
NCOA4;NCOA4;NCOA4;	NM_001145261;NM_001145	cg03172717R	5'UTR;1stExon;5'UTR;5'	cg03172717
SOD1	NM_000454	cg03173570R	TSS1500	cg03173570
		cg03174501F		cg03174501
PARN;PARN	NM_001134477;NM_002582	cg03176203F	Body;Body	cg03176203
RGPD1;RGPD2	NM_001024457;NM_001078	cg03176543R	Body;Body	cg03176543
FILIP1	NM_015687	cg03177847F	Body	cg03177847
		cg03178798F		cg03178798
C11orf41	NM_012194	cg03179726F	Body	cg03179726
IL16;IL16	NM_004513;NM_172217	cg03180322F	3'UTR;3'UTR	cg03180322
RAB7A	NM_004637	cg03181118R	5'UTR	cg03181118
		cg03181340R		cg03181340
PTP4A1	NM_003463	cg03182374F	Body	cg03182374
		cg03182608R		cg03182608
LRCH3	NM_032773	cg03185283R	Body	cg03185283
GNA15	NM_002068	cg03188495F	1stExon	cg03188495
		cg03189338F		cg03189338
ITGAV;ITGAV;ITGAV	NM_001144999;NM_001145	cg03192874F	Body;Body;Body	cg03192874
KCTD21	NM_001029859	cg03197935R	Body	cg03197935
PRHOXNB	NM_001105577	cg03199005R	TSS1500	cg03199005

		cg03199084F		cg03199084
FRS2;FRS2	NM_001042555;NM_006654	cg03199644R	5'UTR;5'UTR	cg03199644
ELMO3	NM_024712	cg03200734F	Body	cg03200734
THRB;THRB;THRB	NM_000461;NM_001128176	cg03201166F	Body;Body;Body	cg03201166
INTS1	NM_001080453	cg03207674R	Body	cg03207674
CYP26C1	NM_183374	cg03208426F	Body	cg03208426
TNFAIP8;TNFAIP8	NM_001077654;NM_014350	cg03210210R	Body;TSS1500	cg03210210
MMP15	NM_002428	cg03211902F	Body	cg03211902
WDR87	NM_031951	cg03212228F	5'UTR	cg03212228
SOLH	NM_005632	cg03216729F	3'UTR	cg03216729
SNORD114-15;SNORD11	NR_003208;NR_003207	cg03217360F	TSS1500;TSS200	cg03217360
TG;SLA;SLA	NM_003235;NM_001045556	cg03220363F	Body;TSS1500;TSS1500	cg03220363
		cg03223959F		cg03223959
FAM129B;FAM129B	NM_022833;NM_001035534	cg03228945R	Body;Body	cg03228945
		cg03229010R		cg03229010
GPD2;GPD2	NM_000408;NM_001083112	cg03230175F	TSS1500;TSS1500	cg03230175
		cg03233224R		cg03233224
SPHK1;SPHK1;SPHK1;SP	NM_001142601;NM_182965	cg03234188R	3'UTR;3'UTR;3'UTR;3'UTR	cg03234188
ANKRD33B	NM_001164440	cg03235179R	Body	cg03235179
PLEKHG6;PLEKHG6	NM_018173;NM_001144856	cg03237324R	5'UTR;TSS200	cg03237324
ZNF487	NR_026693	cg03238687R	Body	cg03238687
OLFM2	NM_058164	cg03238901F	TSS200	cg03238901
NFATC1;NFATC1;NFATC1	NM_006162;NM_172388;NM_172388	cg03239925R	Body;Body;Body;Body	cg03239925
ZNRF1	NM_032268	cg03239970R	Body	cg03239970
		cg03242668F		cg03242668
		cg03246791R		cg03246791
DHRS7C	NM_001105571	cg03248767R	Body	cg03248767
SP9	NM_001145250	cg03249890F	TSS200	cg03249890
		cg03250480F		cg03250480
LOC285045;LOC285045;L	NR_027100;NR_027099;NR_027099	cg03252278R	Body;Body;Body	cg03252278
CFL1	NM_005507	cg03252697R	Body	cg03252697
		cg03252709R		cg03252709
C6orf201	NM_001085401	cg03257674R	Body	cg03257674
SPATA24	NM_194296	cg03259984R	Body	cg03259984
DNAJC8	NM_014280	cg03262242R	1stExon	cg03262242
		cg03263237F		cg03263237
NRXN2;NRXN2	NM_138732;NM_015080	cg03263716R	Body;Body	cg03263716
GNAS;GNAS;GNAS;GNA	NM_001077490;NM_000516	cg03264550R	3'UTR;TSS1500;TSS1500	cg03264550
		cg03267139R		cg03267139
TRIM27	NM_006510	cg03270340R	1stExon	cg03270340
C2orf85	NM_173821	cg03270969R	Body	cg03270969
OR1A2	NM_012352	cg03271520F	TSS1500	cg03271520
GFRA2;GFRA2;GFRA2	NM_001165038;NM_001165	cg03272344F	Body;Body;Body	cg03272344
GRHL2	NM_024915	cg03273057F	Body	cg03273057
		cg03274671R		cg03274671
		cg03274739R		cg03274739
C9orf91	NM_153045	cg03274794F	5'UTR	cg03274794
PTK2;PTK2	NM_005607;NM_153831	cg03277652F	5'UTR;5'UTR	cg03277652
		cg03278271R		cg03278271
RTN4RL2	NM_178570	cg03280245F	Body	cg03280245
CDR2L	NM_014603	cg03280611R	Body	cg03280611
TRAPPC9;TRAPPC9	NM_001160372;NM_031466	cg03282105R	Body;Body	cg03282105
CENPN;CENPN;CENPN;C	NM_001100624;NM_018455	cg03284308F	TSS1500;TSS1500;TSS1500	cg03284308
MICALL2	NM_182924	cg03285219F	TSS200	cg03285219

FAM108A1;FAM108A1	NM_031213;NM_001130111	cg03290418R	5'UTR;5'UTR	cg03290418
CX3CR1;CX3CR1;CX3CRN	NM_001171174;NM_001171	cg03296370R	1stExon;TSS1500;5'UTR	cg03296370
MATK;MATK;MATK	NM_002378;NM_139355;NM_001130111	cg03301579R	Body;Body;Body	cg03301579
		cg03301848F		cg03301848
PKP2;PKP2	NM_001005242;NM_004572	cg03302287R	1stExon;1stExon	cg03302287
NGFR	NM_002507	cg03303655F	Body	cg03303655
CLPTM1	NM_001294	cg03305587R	1stExon	cg03305587
PRKCA	NM_002737	cg03311339R	Body	cg03311339
COPS7A;COPS7A;COPS7	NM_001164094;NM_016319	cg03312205R	TSS1500;TSS1500;TSS1500	cg03312205
TAF1C;TAF1C	NM_139353;NM_005679	cg03312856F	5'UTR;5'UTR	cg03312856
DNMT3A;DNMT3A;DNMT3	NM_022552;NM_175630;NM_001130111	cg03314052R	Body;Body;Body	cg03314052
ZNF530	NM_020880	cg03314548R	TSS1500	cg03314548
EXOC3L2	NM_138568	cg03316237R	TSS1500	cg03316237
LOC100132354	NR_024478	cg03316570R	Body	cg03316570
		cg03316587F		cg03316587
		cg03321222R		cg03321222
		cg03321503F		cg03321503
NAA16	NM_024561	cg03321912F	3'UTR	cg03321912
PSMA2;PSMA2;MRPL32	NM_002787;NM_002787;NM_001130111	cg03324947F	1stExon;5'UTR;TSS200	cg03324947
IQSEC1;IQSEC1	NM_001134382;NM_014869	cg03325598F	Body;Body	cg03325598
NTF3	NM_001102654	cg03325843R	Body	cg03325843
CENPF	NM_016343	cg03327327F	5'UTR	cg03327327
		cg03328360R		cg03328360
CDH12;PMCHL1	NM_004061;NR_003921	cg03328961F	5'UTR;TSS1500	cg03328961
MIR30B	NR_029666	cg03331035R	TSS1500	cg03331035
TMX2;TMX2;TMX2	NM_015959;NM_001144012	cg03333727F	Body;Body;Body	cg03333727
GNB1	NM_002074	cg03335128F	Body	cg03335128
GLIS2	NM_032575	cg03335476F	TSS1500	cg03335476
LY6G5C	NM_025262	cg03337084F	Body	cg03337084
CPSF7;CPSF7;CPSF7;SDH	NM_001142565;NM_024811	cg03342113F	TSS200;TSS200;TSS200	cg03342113
		cg03342674R		cg03342674
		cg03342862R		cg03342862
GPR83;GPR83	NM_016540;NM_016540	cg03345037R	1stExon;5'UTR	cg03345037
KIAA1958	NM_133465	cg03345938R	TSS1500	cg03345938
DEAF1	NM_021008	cg03347287F	Body	cg03347287
CRTC3;CRTC3	NM_022769;NM_001042574	cg03348466F	Body;Body	cg03348466
TRIM26	NM_003449	cg03349173R	5'UTR	cg03349173
		cg03349905F		cg03349905
BAHD1	NM_014952	cg03350042R	TSS1500	cg03350042
		cg03350163F		cg03350163
POLDIP2;POLDIP2;TMEM	NM_015584;NM_015584;NM_001130111	cg03352657F	1stExon;5'UTR;TSS200	cg03352657
ST13;XPNPEP3	NM_003932;NM_022098	cg03353000F	TSS1500;TSS200	cg03353000
NDUFC2	NM_004549	cg03353394R	TSS200	cg03353394
EGFL8	NM_030652	cg03353474R	5'UTR	cg03353474
ASGR1	NM_001671	cg03354476F	Body	cg03354476
SLC1A5;SLC1A5;SLC1A5	NM_001145145;NM_005628	cg03359362R	TSS1500;Body;5'UTR	cg03359362
ALPK1;ALPK1	NM_025144;NM_001102406	cg03364781R	5'UTR;5'UTR	cg03364781
		cg03366986R		cg03366986
		cg03369289F		cg03369289
		cg03372076R		cg03372076
SEPX1	NM_016332	cg03372353R	TSS1500	cg03372353
BAZ2B	NM_013450	cg03375703R	3'UTR	cg03375703
TTLL3	NM_001025930	cg03375833R	Body	cg03375833
		cg03379034F		cg03379034

SCARA5	NM_173833	cg03381047R cg03386509R cg03392145R cg03393769F	5'UTR	cg03381047 cg03386509 cg03392145 cg03393769
DLL1	NM_005618	cg03394401F cg03395088F	TSS200	cg03394401 cg03395088
ADCK4;ADCK4;ITPKC	NM_024876;NM_024876;NM_024876	cg03395546R cg03396325R cg03401379F	1stExon;5'UTR;TSS1500	cg03395546 cg03396325 cg03401379
ZNF487	NR_026693	cg03401477F	Body	cg03401477
NCRNA00173;NCRNA00173	NR_027345;NR_027346	cg03401902F	TSS200;TSS200	cg03401902
SLC26A1;IDUA;SLC26A1	NM_022042;NM_000203;NM_000203	cg03402994R cg03403032F	Body;Body;Body;Body	cg03402994 cg03403032
MAML2	NM_032427	cg03406626R	Body	cg03406626
CPLX1	NM_006651	cg03410806R	Body	cg03410806
USP32	NM_032582	cg03411133F	3'UTR	cg03411133
TRPM5	NM_014555	cg03411376R cg03414644F cg03417975F	Body	cg03411376 cg03414644 cg03417975
ABLIM1;ABLIM1;ABLIM1	NM_001003408;NM_001003408	cg03419475F	Body;Body;5'UTR;Body	cg03419475
COL25A1;COL25A1	NM_198721;NM_032518	cg03421616R	Body;Body	cg03421616
RNF152	NM_173557	cg03424826F	TSS1500	cg03424826
MIR92B	NR_030281	cg03425468F	TSS1500	cg03425468
CLEC4D	NM_080387	cg03425731F	TSS1500	cg03425731
OR2A14	NM_001001659	cg03426413R	1stExon	cg03426413
WDR46;WDR46	NM_005452;NM_001164267	cg03426762F	Body;Body	cg03426762
DDX6	NM_004397	cg03426840R cg03427636R	5'UTR	cg03426840 cg03427636
CAPN1	NM_005186	cg03433669R	Body	cg03433669
ORAOV1	NM_153451	cg03433785R cg03438024R	3'UTR	cg03433785 cg03438024
CYB561;CYB561;CYB561	NM_001017917;NM_001017917	cg03438490F	5'UTR;5'UTR;5'UTR	cg03438490
GALNT14	NM_024572	cg03442269R cg03442795F cg03443112F cg03445316F	Body	cg03442269 cg03442795 cg03443112 cg03445316
LOC100128640;ACVR2B	NR_028389;NM_001106	cg03448396F	Body;Body	cg03448396
SLBP;SLBP	NM_006527;NM_006527	cg03449631R	5'UTR;1stExon	cg03449631
RAG2;C11orf74	NM_000536;NM_138787	cg03452168R	5'UTR;TSS1500	cg03452168
NAT15;NAT15;NAT15	NM_001083600;NM_024845	cg03454041R	3'UTR;3'UTR;3'UTR	cg03454041
DOCK1	NM_001380	cg03458096F cg03460997R cg03464366R	Body	cg03458096 cg03460997 cg03464366
CXCR2;CXCR2	NM_001557;NM_001168298	cg03464560R	TSS1500;TSS1500	cg03464560
NACAP1	NR_002182	cg03465280R	TSS200	cg03465280
PSMB9;PSMB9;TAP1	NM_002800;NM_148954;NM_148954	cg03465320R	Body;Body;TSS1500	cg03465320
ISL2	NM_145805	cg03465861R	Body	cg03465861
TOLLIP	NM_019009	cg03466237R	3'UTR	cg03466237
LOC401127	NR_026854	cg03467501R	TSS200	cg03467501
FAM50B	NM_012135	cg03467813F	3'UTR	cg03467813
LHX4	NM_033343	cg03469793R	TSS200	cg03469793
ARHGEF17	NM_014786	cg03470933F	Body	cg03470933
HCG18;TRIM39;HCG18;TNR	NR_024053;NM_021253;NR_024053	cg03471106F	TSS200;5'UTR;TSS200;	cg03471106
GJB6;GJB6;GJB6;GJB6	NM_001110220;NM_001110220	cg03473518R	5'UTR;5'UTR;5'UTR;TS	cg03473518

		cg03473993F		cg03473993
		cg03475509R		cg03475509
ACN9	NM_020186	cg03476105F	Body	cg03476105
		cg03477976F		cg03477976
		cg03485672F		cg03485672
PEX16;PEX16	NM_057174;NM_004813	cg03487637F	TSS1500;TSS1500	cg03487637
SMOC2;SMOC2	NM_022138;NM_001166412	cg03490766F	Body;Body	cg03490766
AKIRIN2	NM_018064	cg03491270F	Body	cg03491270
		cg03497716F		cg03497716
ZNF321	NM_203307	cg03497750R	TSS200	cg03497750
MYC	NM_002467	cg03498895R	Body	cg03498895
		cg03499000F		cg03499000
LHPP;LHPP	NM_022126;NM_001167880	cg03499943R	Body;Body	cg03499943
ALOX5	NM_000698	cg03501777R	TSS200	cg03501777
TRAF6;TRAF6	NM_145803;NM_004620	cg03503634F	TSS200;TSS200	cg03503634
PRKCB;PRKCB	NM_002738;NM_212535	cg03503785R	Body;Body	cg03503785
ZNF391	NM_001076781	cg03503812F	5'UTR	cg03503812
LOC255025	NR_015400	cg03505448F	TSS1500	cg03505448
EVI5L;EVI5L	NM_145245;NM_001159944	cg03509094F	Body;Body	cg03509094
C1orf173	NM_001002912	cg03513964F	TSS1500	cg03513964
		cg03514188R		cg03514188
NRCAM;NRCAM;NRCAM	NM_001037133;NM_001037	cg03514928F	TSS1500;Body;Body	cg03514928
		cg03516599F		cg03516599
TMUB1;TMUB1;TMUB1	NM_001136044;NM_031434	cg03519451F	5'UTR;1stExon;5'UTR	cg03519451
NHSL1;NHSL1	NM_001144060;NM_020464	cg03520265F	Body;Body	cg03520265
LRRC32;LRRC32	NM_005512;NM_001128922	cg03522035F	3'UTR;3'UTR	cg03522035
		cg03523254R		cg03523254
KCNH5	NM_172376	cg03523434R	TSS200	cg03523434
ACTL6A;ACTL6A;ACTL6	NM_178042;NM_177989;NM_177989	cg03526614F	Body;Body;Body	cg03526614
		cg03528402R		cg03528402
SCP2;SCP2;SCP2;SCP2	NM_001007250;NM_001007	cg03528519F	3'UTR;Body;Body;Body	cg03528519
DEFB124;REM1	NM_001037500;NM_014012	cg03529184F	TSS1500;TSS1500	cg03529184
PPM1L	NM_139245	cg03529514R	Body	cg03529514
WDR47;WDR47;WDR47;WDR47	NM_014969;NM_001142551	cg03530210F	1stExon;5'UTR;1stExon;	cg03530210
		cg03532363F		cg03532363
CERK	NM_022766	cg03533979F	Body	cg03533979
ZCCHC14	NM_015144	cg03535255F	Body	cg03535255
SLC27A1	NM_198580	cg03535829R	Body	cg03535829
		cg03536465R		cg03536465
		cg03539382R		cg03539382
PIP5K1C	NM_012398	cg03540494R	Body	cg03540494
		cg03542208F		cg03542208
		cg03546235F		cg03546235
PLA2G16;PLA2G16	NM_001128203;NM_007069	cg03548386R	Body;Body	cg03548386
MIR140;WWP2;WWP2	NR_029681;NM_199424;NM_199424	cg03549146R	TSS200;Body;Body	cg03549146
SETD5;LOC440944	NM_001080517;NR_027007	cg03549244F	5'UTR;TSS1500	cg03549244
SFRS8	NM_004592	cg03550075R	Body	cg03550075
		cg03550773R		cg03550773
COBL	NM_015198	cg03551807R	Body	cg03551807
		cg03552058R		cg03552058
SOCS1	NM_003745	cg03553358F	TSS200	cg03553358
BRSK2	NM_003957	cg03553914F	Body	cg03553914
		cg03554878F		cg03554878
		cg03555579R		cg03555579



C5orf24;C5orf24	NM_001135586;NM_152409	cg03558408R	5'UTR;5'UTR	cg03558408
PRDM10;PRDM10	NM_199437;NM_020228	cg03561745F	5'UTR;5'UTR	cg03561745
FSTL4	NM_015082	cg03564865R	Body	cg03564865
WWC1;WWC1;WWC1	NM_001161662;NM_015238	cg03565280R cg03567106F cg03575614R cg03582419F	Body;Body;Body	cg03565280 cg03567106 cg03575614 cg03582419
HDAC4	NM_006037	cg03585122R	Body	cg03585122
KIAA1543;KIAA1543	NM_020902;NM_001080429	cg03585611F cg03586128R	Body;Body	cg03585611 cg03586128
SLC25A36;SLC25A36	NM_001104647;NM_018155	cg03586379R	TSS200;TSS200	cg03586379
ZMPSTE24	NM_005857	cg03586847F	Body	cg03586847
NADSYN1;NADSYN1	NM_018161;NM_018161	cg03589557F	5'UTR;1stExon	cg03589557
PRIC285;PRIC285	NM_001037335;NM_033405	cg03590031F	Body;TSS1500	cg03590031
OPCML;OPCML	NM_002545;NM_001012393	cg03590420R	Body;Body	cg03590420
SHANK2	NM_012309	cg03592166R	Body	cg03592166
PSMD8	NM_002812	cg03592197R	1stExon	cg03592197
ZNF197;ZNF197	NM_006991;NM_001024855	cg03592283F cg03595220F cg03595533R	5'UTR;5'UTR	cg03592283 cg03595220 cg03595533
TMC8	NM_152468	cg03596178R	3'UTR	cg03596178
SAPS1	NM_014931	cg03596320F	Body	cg03596320
BHLHE40	NM_003670	cg03598297F	Body	cg03598297
CD63;CD63	NM_001780;NM_001040034	cg03599547R cg03600552F cg03601617F	TSS200;TSS200	cg03599547 cg03600552 cg03601617
CACNG6;CACNG6;CACNNM_145814;NM_145815;NM_145816	NM_145814;NM_145815;NM_145816	cg03601644F	Body;Body;Body	cg03601644
GPR152	NM_206997	cg03602823R	1stExon	cg03602823
PHC3	NM_024947	cg03603669R	Body	cg03603669
NCAPG;DCAF16	NM_022346;NM_017741	cg03604819R cg03605117R	Body;TSS1500	cg03604819 cg03605117
LIMCH1;LIMCH1;LIMCH1	NM_014988;NM_001112718	cg03605284R cg03606333R	Body;Body;Body;Body;Body	cg03605284 cg03606333
MIR572	NR_030298	cg03609493R	TSS200	cg03609493
ETS1;ETS1;ETS1	NM_001143820;NM_005238	cg03610000R	Body;TSS200;TSS200	cg03610000
ENTPD1;ENTPD1;ENTPD1	NM_001164179;NM_0011164	cg03610280F	Body;Body;Body;5'UTR	cg03610280
CELSR1	NM_014246	cg03610636F	Body	cg03610636
LOC100126784;NAV2;NAV2	NR_015384;NM_182964;NM_182964	cg03611487R	TSS1500;Body;Body;Body	cg03611487
ZNF773	NM_198542	cg03612039F	TSS200	cg03612039
ZC3H3	NM_015117	cg03612190R	Body	cg03612190
PDE3A	NM_000921	cg03618302F	Body	cg03618302
ABI1;ABI1;ABI1;ABI1	NM_001012750;NM_005470	cg03625292R	Body;Body;Body;Body	cg03625292
FABP6;FABP6	NM_001130958;NM_001040	cg03625952R	5'UTR;TSS1500	cg03625952
LCP1;LCP1	NM_002298;NM_002298	cg03627295R cg03627678F	1stExon;5'UTR	cg03627295 cg03627678
LSM4	NM_012321	cg03628274F	Body	cg03628274
C16orf7	NM_004913	cg03633039F cg03633574R	Body	cg03633039 cg03633574
PMFBP1;PMFBP1	NM_001160213;NM_031293	cg03636048F cg03637769F	TSS200;TSS1500	cg03636048 cg03637769
SLC13A4	NM_012450	cg03640993R	TSS1500	cg03640993
DIRAS3	NM_004675	cg03641225F	Body	cg03641225
MORG1;MORG1;MAN2B	NM_001099737;NM_001099	cg03641858R	1stExon;5'UTR;TSS200;	cg03641858
MAP2K4	NM_003010	cg03643423R	Body	cg03643423

RGPD4	NM_182588	cg03644703F cg03646297R cg03649855R	Body	cg03644703 cg03646297 cg03649855
THOP1	NM_003249	cg03651904F	Body	cg03651904
FAM20C	NM_020223	cg03652561F cg03652676R	Body	cg03652561 cg03652676
PRELID2;PRELID2;PRELINM_205846;NM_138492;NM_138492;NM_138492	NM_205846;NM_138492;NM_138492	cg03653845R	Body;Body;Body	cg03653845
SNAR-G1;CGB1	NR_004383;NM_033377	cg03654106F	TSS1500;Body	cg03654106
ZDHHC7;ZDHHC7	NM_001145548;NM_017740	cg03655147R	5'UTR;5'UTR	cg03655147
PRKCG	NM_002739	cg03657031R	TSS1500	cg03657031
HRH2	NM_001131055	cg03657040R	TSS1500	cg03657040
METTL2B;METTL2B	NM_018396;NM_018396	cg03657549F cg03658699R	5'UTR;1stExon	cg03657549 cg03658699
ASIP	NM_001672	cg03658707R	Body	cg03658707
GRK5	NM_005308	cg03658982R	Body	cg03658982
ZNF746;ZNF746	NM_001163474;NM_152557	cg03660134F	TSS1500;TSS1500	cg03660134
DKFZp434L192	NR_026929	cg03660331R	Body	cg03660331
TRABD	NM_025204	cg03660710R cg03661428R cg03663188F cg03664011F	5'UTR	cg03660710 cg03661428 cg03663188 cg03664011
SCN2B	NM_004588	cg03664391R	TSS1500	cg03664391
HCG22	NR_003948	cg03665259R cg03665818F	TSS200	cg03665259 cg03665818
CBFA2T3	NM_005187	cg03669037F	Body	cg03669037
TERF2IP	NM_018975	cg03669394F	Body	cg03669394
ARL15	NM_019087	cg03670816R	TSS200	cg03670816
LOC100271836	NR_027155	cg03672621F	TSS1500	cg03672621
SEC14L2	NM_012429	cg03673688F	3'UTR	cg03673688
ZNF783	NR_015357	cg03675159F cg03676215R	Body	cg03675159 cg03676215
SGCE;PEG10;SGCE;PEG1	NM_001099401;NM_015068	cg03682823F	TSS1500;5'UTR;TSS1500	cg03682823
DPEP2	NM_022355	cg03683004R	5'UTR	cg03683004
FXVD4	NM_173160	cg03687765F	TSS200	cg03687765
GJB2	NM_004004	cg03689120F cg03689403R cg03690763F	TSS200	cg03689120 cg03689403 cg03690763
TRIM5;TRIM5;TRIM5	NM_033092;NM_033093;NM_033093	cg03698359F	5'UTR;5'UTR;5'UTR	cg03698359
CCDC86	NM_024098	cg03700121R	1stExon	cg03700121
MOCS3;DPM1	NM_014484;NM_003859	cg03700308R cg03701575R cg03703977R	1stExon;TSS1500	cg03700308 cg03701575 cg03703977
FAM9A;FAM9A;FAM9A	NM_174951;NM_001171186	cg03704653F	5'UTR;5'UTR;1stExon	cg03704653
EPCAM	NM_002354	cg03706175R	Body	cg03706175
CCDC65	NM_033124	cg03711050R	TSS1500	cg03711050
SPI1;SPI1	NM_003120;NM_001080547	cg03711944F	Body;Body	cg03711944
NR2F1	NM_005654	cg03714110F cg03715182R	Body	cg03714110 cg03715182
PPP2R2D;PPP2R2D;PPP2R2D	NR_033191;NM_001003656;NM_001003656	cg03716738R	Body;Body;Body	cg03716738
ARAP1;ARAP1;ARAP1	NM_001135190;NM_015242	cg03720898F cg03721045F	Body;Body;Body	cg03720898 cg03721045
IPO7	NM_006391	cg03726015R	3'UTR	cg03726015
THAP4;THAP4	NM_015963;NM_001164356	cg03726791R	Body;Body	cg03726791
CD247;CD247	NM_198053;NM_000734	cg03727968F	Body;Body	cg03727968

NEURL4;NEURL4	NM_032442;NM_001005408	cg03729288R	TSS200;TSS200	cg03729288
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg03729566R	Body;Body;Body	cg03729566
YTHDF2	NM_016258	cg03731740R	TSS1500	cg03731740
BPI;BPI	NM_001725;NM_001725	cg03733207F	1stExon;5'UTR	cg03733207
SNAR-H	NR_024342	cg03746136R	TSS200	cg03746136
MEGF8	NM_001410	cg03746345R	Body	cg03746345
		cg03749154R		cg03749154
RABGEF1	NM_014504	cg03749599F	Body	cg03749599
SDK1;SDK1	NR_027816;NM_152744	cg03752259R	Body;Body	cg03752259
DNAJC11	NM_018198	cg03753670F	TSS1500	cg03753670
MCPH1	NM_024596	cg03755955F	Body	cg03755955
TMIGD2;TMIGD2	NM_144615;NM_001169126	cg03757250F	TSS1500;TSS1500	cg03757250
DEAF1	NM_021008	cg03758674R	3'UTR	cg03758674
CD5L	NM_005894	cg03761113F	TSS200	cg03761113
STK38L	NM_015000	cg03766264F	TSS1500	cg03766264
FAM82A1;FAM82A1;FAM82A1	NM_144713;NM_001170791	cg03766407R	TSS1500;Body;TSS1500	cg03766407
SRCAP	NM_006662	cg03766965R	Body	cg03766965
		cg03767562F		cg03767562
		cg03769664F		cg03769664
NR1H4;NR1H4	NM_005123;NM_005123	cg03771004F	5'UTR;1stExon	cg03771004
GRK5	NM_005308	cg03773192R	TSS1500	cg03773192
		cg03778769R		cg03778769
EIF4G1;EIF4G1;EIF4G1;EIF4G1	NM_198244;NM_182917;NM_182917;NM_182917	cg03780356F	5'UTR;TSS200;5'UTR;5'UTR	cg03780356
DNAH10	NM_207437	cg03785426F	Body	cg03785426
AGAP1;AGAP1	NM_014914;NM_001037131	cg03785646R	Body;Body	cg03785646
NR1H3;NR1H3;NR1H3	NM_001130102;NM_005693	cg03790378R	5'UTR;TSS1500;TSS1500	cg03790378
RCOR2	NM_173587	cg03790745R	Body	cg03790745
		cg03791486F		cg03791486
MDC1	NM_014641	cg03791799F	TSS1500	cg03791799
COL25A1;COL25A1	NM_198721;NM_032518	cg03793486F	Body;Body	cg03793486
STX1B	NM_052874	cg03793804R	TSS200	cg03793804
		cg03796943R		cg03796943
GIMAP7	NM_153236	cg03800150R	5'UTR	cg03800150
		cg03800178F		cg03800178
		cg03801043F		cg03801043
FNTA;FNTA;FNTA;FNTA	NM_001018676;NM_001018676;NM_001018676;NM_001018676	cg03802231F	5'UTR;1stExon;1stExon;1stExon	cg03802231
DIXDC1;DIXDC1	NM_033425;NM_001037954	cg03803789R	Body;Body	cg03803789
		cg03807919F		cg03807919
		cg03808708R		cg03808708
PDE6B;PDE6B;PDE6B	NM_000283;NM_001145291	cg03810516F	Body;Body;Body	cg03810516
EDAR	NM_022336	cg03810768R	TSS200	cg03810768
		cg03812562F		cg03812562
C7orf59	NM_001008395	cg03818034F	TSS1500	cg03818034
		cg03818572F		cg03818572
MGRN1;MGRN1;MGRN1;MGRN1	NM_001142291;NM_001142291;NM_001142291;NM_001142291	cg03819286F	TSS1500;TSS1500;TSS1500;TSS1500	cg03819286
VDAC2	NM_003375	cg03820205R	TSS200	cg03820205
BCAS3;BCAS3;BCAS3;BCAS3	NM_017679;NM_001099432	cg03821916R	5'UTR;5'UTR;1stExon;1stExon	cg03821916
C12orf40	NM_001031748	cg03826683R	Body	cg03826683
		cg03835547R		cg03835547
GNAS;GNAS;GNAS;GNAS	NM_001077490;NR_003259;NR_003259;NR_003259	cg03837903R	3'UTR;TSS200;3'UTR;3'UTR	cg03837903
		cg03840073F		cg03840073
		cg03844380R		cg03844380
		cg03847190R		cg03847190
		cg03848483F		cg03848483

C16orf53;MVP;MVP	NM_024516;NM_017458;NM_001003408;NM_001003408	cg03849299R cg03849728F cg03850986F	Body;TSS1500;TSS1500	cg03849299 cg03849728 cg03850986
ABLIM1;ABLIM1;ABLIM1	NM_138612	cg03851155R cg03854595R	TSS1500	cg03851155 cg03854595
SERHL	NR_027786	cg03855656F	TSS1500	cg03855656
PTPRG	NM_002841	cg03856153R cg03859106R	Body	cg03856153 cg03859106
ANKS3;C16orf71	NM_133450;NM_139170	cg03859282R	5'UTR;TSS1500	cg03859282
BTBD10	NM_032320	cg03860400F	TSS1500	cg03860400
PSMG3;KIAA1908;KIAA1908	NM_001134340;NR_021487	cg03862760R cg03863628R cg03863634F	5'UTR;TSS1500;TSS1500	cg03862760 cg03863628 cg03863634
GAD1	NM_000817	cg03865668R	3'UTR	cg03865668
FBRSL1	NM_001142641	cg03870234R	Body	cg03870234
HCG4P6	NR_001317	cg03876548R	TSS200	cg03876548
COL9A1;COL9A1	NM_001851;NM_078485	cg03878567F cg03881524F cg03881711F cg03887614R	Body;Body	cg03878567 cg03881524 cg03881711 cg03887614
NTRK1;INSRR	NM_001007792;NM_014215	cg03888033F cg03890998F	Body;Body	cg03888033 cg03890998
KNDC1	NM_152643	cg03891843R	Body	cg03891843
TNFRSF25;PLEKHG5;TNFRSF25	NM_003790;NM_001042663	cg03893150F cg03893446F cg03893642F	TSS200;3'UTR;TSS200	cg03893150 cg03893446 cg03893642
PREPL;PREPL;PREPL;PREPL	NM_001171613;NM_006036	cg03894103F	5'UTR;1stExon;5'UTR;5'UTR	cg03894103
CDK6;CDK6	NM_001259;NM_001145306	cg03895496R cg03895593R cg03897489F	Body;Body	cg03895496 cg03895593 cg03897489
LOC442454;LOC550643	NR_002308;NR_015367	cg03897851R	TSS1500;Body	cg03897851
DOPEY2	NM_005128	cg03898802R	Body	cg03898802
CDK5R1	NM_003885	cg03898962R	Body	cg03898962
LOC283914	NR_027080	cg03898993F	Body	cg03898993
WWC2	NM_024949	cg03900861F	Body	cg03900861
NXF1;NXF1;NXF1;NXF1	NM_006362;NM_001081491	cg03901462F cg03903278F cg03905986R	1stExon;1stExon;5'UTR	cg03901462 cg03903278 cg03905986
C10orf57	NM_025125	cg03909471R cg03909886R cg03910874F cg03911745R	Body	cg03909471 cg03909886 cg03910874 cg03911745
MIR138-1	NR_029700	cg03918530F	TSS200	cg03918530
ZNF395	NM_018660	cg03920392R	5'UTR	cg03920392
STT3B	NM_178862	cg03923676R	Body	cg03923676
HNRNPCL1;LOC649330	NM_001013631;NM_0011146	cg03925208F cg03925970R	Body;1stExon	cg03925208 cg03925970
PPTC7	NM_139283	cg03926050R cg03926968R	Body	cg03926050 cg03926968
CCR2;CCR2	NM_001123041;NM_0011123	cg03928384R	TSS200;TSS200	cg03928384
FAM21B;FAM21A	NM_018232;NM_001005751	cg03929077R	Body;Body	cg03929077
TRAPPC9;TRAPPC9	NM_001160372;NM_031466	cg03929816F cg03931865R cg03933786R	Body;Body	cg03929816 cg03931865 cg03933786

		cg03934443R		cg03934443
VAT1L	NM_020927	cg03934782F	Body	cg03934782
PRM1	NM_002761	cg03940074F	TSS1500	cg03940074
MIR663	NR_030386	cg03940098F	Body	cg03940098
THEM4	NM_053055	cg03940966F	Body	cg03940966
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg03943446F	Body;Body;Body	cg03943446
PHTF1	NM_006608	cg03948207R	TSS1500	cg03948207
RHBDF1;RHBDF1	NM_022450;NM_022450	cg03948744R	5'UTR;1stExon	cg03948744
PTBP2	NM_021190	cg03949031R	Body	cg03949031
		cg03953086F		cg03953086
GRRP1	NM_024869	cg03953671R	Body	cg03953671
SH3PXD2A	NM_014631	cg03958163R	TSS1500	cg03958163
		cg03958928R		cg03958928
B3GNTL1	NM_001009905	cg03961998F	Body	cg03961998
		cg03962019R		cg03962019
LOC440905	NR_026758	cg03962178F	TSS1500	cg03962178
GLS	NM_014905	cg03962451R	Body	cg03962451
		cg03964554F		cg03964554
PCGF1	NM_032673	cg03964696R	Body	cg03964696
KCNAB2;KCNAB2	NM_003636;NM_172130	cg03969724R	Body;Body	cg03969724
		cg03973420R		cg03973420
ATG2A	NM_015104	cg03975537F	Body	cg03975537
HLA-DPB2	NR_001435	cg03978169R	Body	cg03978169
PLEKHH3	NM_024927	cg03978242F	Body	cg03978242
PDIA5;PDIA5	NM_006810;NR_028444	cg03981286F	Body;Body	cg03981286
		cg03983639F		cg03983639
MMP15	NM_002428	cg03986620F	Body	cg03986620
		cg03989270R		cg03989270
		cg03990906R		cg03990906
		cg03991547R		cg03991547
		cg03992192F		cg03992192
CCDC13;CCDC13	NM_144719;NM_144719	cg03992938F	1stExon;5'UTR	cg03992938
ZNF703;ZNF703	NM_025069;NM_025069	cg03994018R	1stExon;5'UTR	cg03994018
		cg03996123F		cg03996123
		cg03996677R		cg03996677
RAB22A;PPP4R1L	NM_020673;NR_003505	cg03998476R	TSS1500;TSS200	cg03998476
		cg04001071R		cg04001071
		cg04004158F		cg04004158
		cg04004787R		cg04004787
LTBP3;LTBP3;LTBP3	NM_001164266;NM_021070	cg04007841F	Body;Body;Body	cg04007841
		cg04008703F		cg04008703
TTR	NM_000371	cg04008843R	TSS1500	cg04008843
GLIS3;GLIS3	NM_152629;NM_001042413	cg04010205R	Body;Body	cg04010205
TRIM31	NM_007028	cg04012857F	Body	cg04012857
TUBGCP3	NM_006322	cg04015501R	Body	cg04015501
MGC16025;HDAC4	NR_026664;NM_006037	cg04015912F	TSS200;Body	cg04015912
SRCIN1	NM_025248	cg04016527F	Body	cg04016527
UGT2B15	NM_001076	cg04016992F	TSS1500	cg04016992
STARD7	NM_020151	cg04018571R	1stExon	cg04018571
		cg04021733R		cg04021733
MTMR6	NM_004685	cg04024499R	Body	cg04024499
		cg04025498R		cg04025498
		cg04026699R		cg04026699
RAB40C	NM_021168	cg04027778F	Body	cg04027778

		cg04032071R		cg04032071
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg04036306R	5'UTR;Body	cg04036306
C9orf171	NM_207417	cg04038932R	Body	cg04038932
PNKD;PNKD	NM_015488;NM_022572	cg04041474R	Body;TSS200	cg04041474
FAM110B	NM_147189	cg04043052F	5'UTR	cg04043052
PXN;PXN;PXN	NM_025157;NM_0010808	cg04043892F	Body;Body;Body	cg04043892
RAB17	NM_022449	cg04044224R	TSS200	cg04044224
IFT140	NM_014714	cg04051962R	Body	cg04051962
SCRT1	NM_031309	cg04059826R	Body	cg04059826
		cg04060547R		cg04060547
		cg04060909R		cg04060909
NEUROG1	NM_006161	cg04063589R	TSS1500	cg04063589
ZC3H12C	NM_033390	cg04064550R	Body	cg04064550
JUP;JUP	NM_002230;NM_021991	cg04066453F	TSS1500;TSS1500	cg04066453
DDX41;DDX41	NM_016222;NM_016222	cg04067506F	1stExon;5'UTR	cg04067506
HDAC4	NM_006037	cg04069381R	Body	cg04069381
		cg04069948F		cg04069948
CD200R1;CD200R1;CD20	NM_170780;NM_170780;NM_170780	cg04070847F	1stExon;5'UTR;1stExon;	cg04070847
		cg04071602F		cg04071602
RBL1;RBL1	NM_183404;NM_002895	cg04074650R	Body;Body	cg04074650
PFN4;LOC375190	NM_199346;NM_001145710	cg04076037F	TSS200;TSS200	cg04076037
		cg04076264F		cg04076264
		cg04078634R		cg04078634
C4orf49	NM_032623	cg04080724F	TSS1500	cg04080724
		cg04083776F		cg04083776
FAM129C;FAM129C	NM_173544;NM_001098524	cg04084436R	TSS1500;TSS1500	cg04084436
		cg04085713R		cg04085713
		cg04088945R		cg04088945
CAB39;CAB39;CAB39	NM_016289;NM_001130849	cg04089197F	5'UTR;5'UTR;5'UTR	cg04089197
PICK1;PICK1;PICK1	NM_001039584;NM_001039	cg04089703R	3'UTR;3'UTR;3'UTR	cg04089703
C3	NM_000064	cg04089739R	Body	cg04089739
POMGNT1;POMGNT1	NM_017739;NR_024332	cg04089800F	3'UTR;Body	cg04089800
SMAD6;SMAD6	NR_027654;NM_005585	cg04093349R	Body;Body	cg04093349
SLC38A4;SLC38A4	NM_018018;NM_001143824	cg04094478F	TSS1500;TSS1500	cg04094478
		cg04094548R		cg04094548
SH2D4B;SH2D4B	NM_207372;NM_001145719	cg04097312F	Body;Body	cg04097312
		cg04097463F		cg04097463
CCDC57	NM_198082	cg04098763R	Body	cg04098763
EPHB2;EPHB2	NM_004442;NM_017449	cg04099056F	Body;Body	cg04099056
		cg04100169R		cg04100169
		cg04102894F		cg04102894
SYPL1;SYPL1	NM_006754;NM_182715	cg04105014R	TSS1500;TSS1500	cg04105014
LMF1	NM_022773	cg04105547R	Body	cg04105547
WSB2	NM_018639	cg04106489R	TSS1500	cg04106489
AJAP1;AJAP1	NM_018836;NM_001042478	cg04110918R	Body;Body	cg04110918
PPP2R5E	NM_006246	cg04113056R	TSS1500	cg04113056
PLCH1;PLCH1;PLCH1	NM_001130960;NM_001130	cg04114537R	Body;Body;Body	cg04114537
C22orf28	NM_014306	cg04115025R	Body	cg04115025
		cg04115878R		cg04115878
		cg04116270R		cg04116270
PROSC	NM_007198	cg04116790R	Body	cg04116790
DMP1;DMP1	NM_001079911;NM_004407	cg04116983R	5'UTR;5'UTR	cg04116983
ADAM30	NM_021794	cg04117480R	TSS1500	cg04117480
		cg04118102R		cg04118102

IFT140	NM_014714	cg04118519R	Body	cg04118519
WDR59;WDR59	NM_030581;NM_030581	cg04128307F	5'UTR;1stExon	cg04128307
TRIM60	NM_152620	cg04128367R	TSS1500	cg04128367
PIGP;PIGP;TTC3;PIGP	NR_028352;NM_153682;NM	cg04128483F	TSS1500;TSS1500;5'UT	cg04128483
		cg04128945F		cg04128945
CCR5;CCR5	NM_000579;NM_001100168	cg04131610R	TSS200;TSS200	cg04131610
TMEM123;TMEM123	NM_052932;NM_052932	cg04131734R	5'UTR;1stExon	cg04131734
AHRR	NM_020731	cg04135110R	Body	cg04135110
INPP4A;INPP4A;INPP4A;	NM_004027;NM_001134224	cg04135372R	1stExon;1stExon;5'UTR;	cg04135372
		cg04139007F		cg04139007
		cg04139847R		cg04139847
ATP6V0A2	NM_012463	cg04140754R	TSS1500	cg04140754
		cg04141796R		cg04141796
		cg04143547F		cg04143547
		cg04143876R		cg04143876
GAL3ST2	NM_022134	cg04144151R	TSS1500	cg04144151
C1orf96	NM_145257	cg04144611F	Body	cg04144611
UBE2L6;UBE2L6	NM_004223;NM_198183	cg04149405R	Body;5'UTR	cg04149405
TOP1MT	NM_052963	cg04149897R	Body	cg04149897
PHLDB2;PHLDB2;PHLDBNM_001134438;NM_001134		cg04153991F	TSS1500;Body;TSS1500	cg04153991
FLYWCH2;FLYWCH2;FL	NM_001142499;NM_001142	cg04155600R	TSS1500;TSS1500;TSS1	cg04155600
NFE2	NM_001136023	cg04158018R	TSS1500	cg04158018
CALN1;CALN1	NM_001017440;NM_031468	cg04158140R	Body;Body	cg04158140
		cg04158612F		cg04158612
TMCO3	NM_017905	cg04162223F	Body	cg04162223
DKFZp686A1627	NR_002801	cg04162949F	TSS200	cg04162949
GEMIN8;GEMIN8;GEMINNM_001042479;NM_001042		cg04167725R	Body;Body;Body	cg04167725
DCAF4;DCAF4;DCAF4;DC	NM_181340;NM_001163508	cg04167819F	5'UTR;5'UTR;5'UTR;5'U	cg04167819
MAG;MAG	NM_002361;NM_080600	cg04169912R	Body;Body	cg04169912
SNTG1	NM_018967	cg04172771R	5'UTR	cg04172771
		cg04176108F		cg04176108
PLG;PLG	NM_001168338;NM_000301	cg04181478F	TSS1500;TSS1500	cg04181478
ARHGAP8;PRR5-ARHGA	NM_181335;NM_181334;NM	cg04181864R	5'UTR;Body;5'UTR	cg04181864
		cg04182912R		cg04182912
ASF1A	NM_014034	cg04183425R	Body	cg04183425
SLC12A7	NM_006598	cg04184427R	Body	cg04184427
		cg04185310F		cg04185310
SPG7	NM_003119	cg04186815F	Body	cg04186815
MICA	NM_000247	cg04188764F	Body	cg04188764
LRFN2	NM_020737	cg04189381R	Body	cg04189381
C20orf199;SNORD12C;C2	NR_003606;NR_002433;NR	cg04190784R	TSS1500;TSS1500;TSS1	cg04190784
NBR1;NBR1;NBR1	NM_031858;NM_031862;NM	cg04193083F	5'UTR;5'UTR;5'UTR	cg04193083
DZIP1;DZIP1	NM_198968;NM_014934	cg04194341R	Body;Body	cg04194341
C17orf69;C17orf69	NR_026906;NR_026905	cg04194664R	Body;Body	cg04194664
KRCC1	NM_016618	cg04195125R	Body	cg04195125
CD34;CD34	NM_001025109;NM_001773	cg04197452R	Body;Body	cg04197452
		cg04197935R		cg04197935
		cg04198139R		cg04198139
		cg04199720F		cg04199720
SNORD115-39	NR_003354	cg04200704R	TSS200	cg04200704
PRRG2	NM_000951	cg04201347F	Body	cg04201347
		cg04201675F		cg04201675
WDR43	NM_015131	cg04202122R	TSS1500	cg04202122
AHRR	NM_020731	cg04202140F	Body	cg04202140

LASS6	NM_203463	cg04202267F	Body	cg04202267
SYNGAP1	NM_006772	cg04202802F	Body	cg04202802
SPNS2;MYBBP1A;MYBBP1	NM_001124758;NM_014520	cg04203950R	3'UTR;Body;Body	cg04203950
CLEC2L	NM_001080511	cg04205664R	Body	cg04205664
RUNX1;RUNX1	NM_001001890;NM_001754	cg04212846F	Body;Body	cg04212846
USP42	NM_032172	cg04213338F	TSS200	cg04213338
C7orf46;C7orf46;C7orf46	NM_199136;NM_001127364	cg04215179R	TSS200;TSS200;TSS200	cg04215179
MED9	NM_018019	cg04215757F	Body	cg04215757
PHACTR4	NM_001048183	cg04215850F	TSS1500	cg04215850
AMOTL1	NM_130847	cg04215883F	Body	cg04215883
KANK4	NM_181712	cg04217096R	TSS1500	cg04217096
		cg04217498F		cg04217498
SRP9;SRP9	NM_003133;NM_001130440	cg04222842F	TSS200;TSS200	cg04222842
CTBP1;CTBP1	NM_001328;NM_001012614	cg04224041F	Body;Body	cg04224041
		cg04224084F		cg04224084
RPGRIP1	NM_020366	cg04228794F	Body	cg04228794
COIL	NM_004645	cg04229842R	1stExon	cg04229842
MED13L	NM_015335	cg04230029R	Body	cg04230029
KIAA0284;KIAA0284	NM_015005;NM_001112726	cg04232340R	Body;Body	cg04232340
GLTPD1;GLTPD1;CPSF3L	NM_001029885;NM_001029	cg04232698R	1stExon;5'UTR;TSS200	cg04232698
		cg04233193R		cg04233193
TSPAN17;TSPAN17;TSPAN17	NM_130465;NM_012171;NM_012171	cg04234318R	5'UTR;1stExon;5'UTR;1stExon	cg04234318
		cg04237127R		cg04237127
SULF1;SULF1;SULF1;SULF1	NM_001128204;NM_015170	cg04237288R	Body;Body;Body;Body	cg04237288
ESAM	NM_138961	cg04237997R	Body	cg04237997
		cg04239536R		cg04239536
		cg04240971R		cg04240971
		cg04244918F		cg04244918
KIAA1751	NM_001080484	cg04245726R	Body	cg04245726
SERAC1;SERAC1;GTF2H	NM_032861;NM_032861;NM_032861	cg04246357F	1stExon;5'UTR;TSS200	cg04246357
FN3KRP	NM_024619	cg04246699F	TSS200	cg04246699
		cg04247568F		cg04247568
ERGIC1;ERGIC1	NM_001031711;NM_001031	cg04247720R	1stExon;5'UTR	cg04247720
NBR2	NR_003108	cg04251543F	Body	cg04251543
		cg04252689F		cg04252689
MDM2;MDM2;MDM2;MDM2	NM_006878;NM_006881;NM_006881	cg04252939R	Body;Body;Body;Body	cg04252939
KRT5	NM_000424	cg04254916R	1stExon	cg04254916
SCGB3A2	NM_054023	cg04257865R	TSS1500	cg04257865
RPS27L	NM_015920	cg04258046F	3'UTR	cg04258046
PIGH	NM_004569	cg04258934R	Body	cg04258934
HCN1	NM_021072	cg04259977F	TSS1500	cg04259977
FAM195B;FAM195B	NM_207368;NM_001093767	cg04260057R	5'UTR;5'UTR	cg04260057
RABGAP1L	NM_014857	cg04261102F	Body	cg04261102
TTC23;TTC23;TTC23;TTC23	NM_001040657;NM_001040	cg04264272R	3'UTR;3'UTR;3'UTR;3'UTR	cg04264272
		cg04266152F		cg04266152
MCM4;MCM4	NM_182746;NM_005914	cg04266383R	Body;Body	cg04266383
		cg04266929R		cg04266929
TULP2	NM_003323	cg04267164R	TSS200	cg04267164
AGAP3;AGAP3	NM_001042535;NM_031946	cg04268401R	Body;Body	cg04268401
PKP4;PKP4	NM_003628;NM_001005476	cg04269791F	Body;Body	cg04269791
TOM1L2;TOM1L2	NM_001033551;NM_001082	cg04273763R	Body;Body	cg04273763
RPTOR;RPTOR	NM_001163034;NM_020761	cg04275040F	Body;Body	cg04275040
WTIP	NM_001080436	cg04276551F	Body	cg04276551
		cg04277821R		cg04277821



SNORD115-15;SNORD115	NR_003307;NR_003313;NR_cg04278444R	Body;Body;Body;TSS20	cg04278444
TMEM80;TMEM80	NM_001042463;NM_174940	3'UTR;3'UTR	cg04279449
	cg04280377F		cg04280377
RASGEF1B	NM_152545	Body	cg04282497
OR2M5	NM_001004690	1stExon	cg04283307
FANCA;FANCA	NM_001018112;NM_000135	TSS200;TSS200	cg04287289
BMP2K;BMP2K	NM_017593;NM_198892	1stExon;1stExon	cg04287931
	cg04290085F		cg04290085
CCDC64B	NM_001103175	1stExon	cg04293152
DEFB133	NM_001166478	TSS1500	cg04293489
RFNG	NM_002917	Body	cg04294971
PGAP2;PGAP2;PGAP2;PGNM_001145438;NM_001145	cg04295928F	Body;Body;Body;TSS15	cg04295928
ZNF558	NM_144693	Body	cg04301375
ZNF695	NM_020394	TSS1500	cg04305539
HOPX;HOPX;HOPX;HOP	NM_139212;NM_139211;NM_139210	Body;Body;Body;Body;	cg04307083
WDR20	NM_181291	Body	cg04307553
CXorf56;CXorf56;CXorf56	NM_001170570;NM_001170	1stExon;5'UTR;5'UTR;1stExon	cg04310247
	cg04311266F		cg04311266
	cg04312604R		cg04312604
	cg04316429R		cg04316429
DFNA5;DFNA5;DFNA5	NM_001127454;NM_004403	5'UTR;Body;Body	cg04317854
	cg04320257F		cg04320257
ITGB2;ITGB2	NM_001127491;NM_000211	5'UTR;TSS1500	cg04321224
SPEG	NM_005876	Body	cg04323979
PCNP	NM_020357	Body	cg04324509
CACNA1H;CACNA1H	NM_021098;NM_001005407	Body;Body	cg04324521
	cg04329429R		cg04329429
LOC400696	NM_207646	TSS200	cg04329478
ASB13;ASB13	NR_024581;NM_024701	Body;Body	cg04329659
MIR639;TECR	NR_030369;NM_138501	TSS1500;TSS1500	cg04329845
LSM2	NM_021177	TSS1500	cg04331511
TNS1	NM_022648	Body	cg04332747
SNRNP27	NM_006857	1stExon	cg04333863
CALR	NM_004343	Body	cg04334723
KATNAL1;KATNAL1	NM_001014380;NM_032116	TSS200;5'UTR	cg04334947
HAGHL;HAGHL;CCDC78	NM_032304;NM_207112;NM_207111	TSS200;5'UTR;TSS1500	cg04337618
POLG;POLG	NM_001126131;NM_002693	Body;Body	cg04339246
CROCC	NM_014675	Body	cg04339882
	cg04340481R		cg04340481
	cg04341544R		cg04341544
LRP5	NM_002335	Body	cg04343509
WWOX;WWOX	NM_016373;NM_130791	Body;Body	cg04344190
MEST;MEST;MEST;MES	NM_002402;NM_177524;NM_177523	TSS1500;5'UTR;5'UTR;	cg04344875
PAX8;PAX8;LOC654433;	NM_003466;NM_013951;NR_003448	Body;Body;Body;Body;	cg04345118
PRKCZ;PRKCZ;PRKCZ	NM_001033581;NM_001033	Body;Body;Body	cg04347414
GATA2;GATA2;GATA2	NM_001145661;NM_032638	Body;Body;Body	cg04347582
SEL1L3	NM_015187	Body	cg04349839
ZNF442	NM_030824	Body	cg04352310
	cg04352959F		cg04352959
HCCA2;FAM99A	NM_053005;NR_026643	Body;TSS200	cg04353359
	cg04354671R		cg04354671
FZD2;FZD2	NM_001466;NM_001466	1stExon;5'UTR	cg04354879
SND1	NM_014390	Body	cg04359022
MRPL47;MRPL47;NDUFB	NM_177988;NM_020409;NM_020408	TSS1500;TSS1500;Body	cg04359302

ASPHD2	NM_020437	cg04360334R cg04362887F	5'UTR	cg04360334 cg04362887
LHX9;LHX9	NM_020204;NM_001014434	cg04365202F	Body;Body	cg04365202
LDB2;LDB2	NM_001290;NM_001130834	cg04366343R	Body;Body	cg04366343
FRAS1;FRAS1	NM_025074;NM_001166133	cg04366385R	Body;Body	cg04366385
PKN1	NM_002741	cg04366619R cg04366880F	TSS200	cg04366619 cg04366880
MYO7A;MYO7A	NM_000260;NM_001127180	cg04367164R	Body;Body	cg04367164
RTEL1;RTEL1	NM_016434;NM_032957	cg04368257F	Body;Body	cg04368257
ADAM33;ADAM33	NM_153202;NM_025220	cg04368843F	Body;Body	cg04368843
MMP15	NM_002428	cg04371126R cg04371726R	Body	cg04371126 cg04371726
TSNARE1	NM_145003	cg04372120R	Body	cg04372120
KIAA0182;KIAA0182	NM_001134473;NM_014615	cg04372823F	Body;Body	cg04372823
NODAL	NM_018055	cg04377282F	1stExon	cg04377282
TLE6;TLE6	NM_001143986;NM_024760	cg04377525R	TSS200;TSS200	cg04377525
HBA2	NM_000517	cg04377849R cg04379416R cg04381153F	TSS1500	cg04377849 cg04379416 cg04381153
MIAT	NR_003491	cg04385144F cg04387073R	TSS200	cg04385144 cg04387073
TNFRSF13B	NM_012452	cg04387477R cg04389709F	Body	cg04387477 cg04389709
HARBI1	NM_173811	cg04390667R	3'UTR	cg04390667
LYSMD1;LYSMD1;SCNM	NM_001136543;NM_212551	cg04393837F	TSS1500;TSS1500;Body	cg04393837
ZNF358	NM_018083	cg04396125R	TSS200	cg04396125
WBSCR28	NM_182504	cg04398190R	Body	cg04398190
MYL5	NM_002477	cg04398861R cg04399289F cg04400496R	TSS1500	cg04398861 cg04399289 cg04400496
SELT	NM_016275	cg04400940F	Body	cg04400940
CGB5	NM_033043	cg04403474R	TSS1500	cg04403474
ITGAL;ITGAL	NM_002209;NM_001114380	cg04404982R	TSS1500;TSS1500	cg04404982
LOC100288797	NM_001167670	cg04405075R	TSS200	cg04405075
MYST3;MYST3;MYST3	NM_001099412;NM_006766	cg04406574R cg04407400F	TSS1500;TSS1500;TSS1500	cg04406574 cg04407400
LY9	NM_002348	cg04409319F	Body	cg04409319
TNPO2	NM_001136195	cg04410039F	TSS1500	cg04410039
ZNF319;ZNF319	NM_020807;NM_020807	cg04411841F	5'UTR;1stExon	cg04411841
C1orf122;YRDC;C1orf122	NM_198446;NM_024640;NM_024640	cg04411969R cg04415114R	TSS1500;Body;TSS1500	cg04411969 cg04415114
SSX7	NM_173358	cg04421488R	TSS1500	cg04421488
GRID1	NM_017551	cg04422256R	Body	cg04422256
MED12L;P2RY12	NM_053002;NM_022788	cg04422741F cg04424605F	Body;TSS1500	cg04422741 cg04424605
ESRRB	NM_004452	cg04424643F	5'UTR	cg04424643
ZFP41	NM_173832	cg04425201F cg04427816F	3'UTR	cg04425201 cg04427816
NUP62;NUP62;NUP62;IL4	NM_012346;NM_016553;NM_016553	cg04428535F	5'UTR;5'UTR;5'UTR;5'UTR	cg04428535
STARD3;STARD3;STARD3	NM_001165937;NM_006804	cg04429812F	Body;Body;Body	cg04429812
IQCE;IQCE	NM_001100390;NM_152558	cg04431829R	Body;Body	cg04431829
ATP11A;ATP11A	NM_015205;NM_032189	cg04432875R	Body;Body	cg04432875
UBE2H;UBE2H;UBE2H;UNM	NM_003344;NM_003344;NM_003344	cg04433306F	1stExon;5'UTR;5'UTR;1	cg04433306
RDBP	NM_002904	cg04433354F	Body	cg04433354

LOC404266;HOXB6;LOC4NR_033204;NM_018952;NR_cg04435975F			Body;TSS1500;Body	cg04435975
EEF2K	NM_013302	cg04436431R	TSS1500	cg04436431
		cg04436459F		cg04436459
		cg04437358F		cg04437358
		cg04440254F		cg04440254
MAP4;MAP4;MAP4;MAP	NM_030885;NM_030885;NM	cg04441191R	5'UTR;1stExon;1stExon;	cg04441191
CPSF6	NM_007007	cg04442407R	TSS200	cg04442407
DDC	NM_001082971	cg04443360F	TSS200	cg04443360
		cg04447362F		cg04447362
OBSL1	NM_015311	cg04447708R	Body	cg04447708
UGT1A10;UGT1A6;UGT1	NM_019075;NM_205862;NM	cg04449108F	Body;5'UTR;Body;TSS1	cg04449108
EMX2OS	NR_002791	cg04450857R	Body	cg04450857
		cg04454215F		cg04454215
FUK	NM_145059	cg04454426F	Body	cg04454426
NCOA4;NCOA4;NCOA4;	NM_001145263;NM_005437	cg04455643F	Body;Body;Body;Body;B	cg04455643
CD36	NM_001001547	cg04458919F	5'UTR	cg04458919
KCNA1	NM_000217	cg04458985F	Body	cg04458985
PTPRJ;PTPRJ	NM_002843;NM_001098503	cg04462547R	Body;Body	cg04462547
		cg04463881R		cg04463881
		cg04464122F		cg04464122
GAL	NM_015973	cg04464446F	Body	cg04464446
ATP13A3	NM_024524	cg04465185R	TSS1500	cg04465185
GRM5	NM_000842	cg04470971R	TSS1500	cg04470971
OR7E91P	NR_002185	cg04471822F	TSS1500	cg04471822
NOC4L	NM_024078	cg04474280F	Body	cg04474280
		cg04474903F		cg04474903
		cg04475687R		cg04475687
KRT2	NM_000423	cg04475846R	TSS200	cg04475846
TMEM155	NM_152399	cg04476764R	Body	cg04476764
TCF25	NM_014972	cg04477005F	Body	cg04477005
		cg04477079F		cg04477079
		cg04478061F		cg04478061
		cg04479860F		cg04479860
DGCR6	NM_005675	cg04481722R	TSS200	cg04481722
FAM18A	NM_001079512	cg04482884R	TSS1500	cg04482884
SH3D20	NM_174919	cg04487659F	TSS1500	cg04487659
		cg04491064F		cg04491064
SOX8	NM_014587	cg04493430F	TSS1500	cg04493430
		cg04495420R		cg04495420
SVIL	NM_003174	cg04496895R	5'UTR	cg04496895
ADAD2;ADAD2	NM_001145400;NM_139174	cg04497927R	1stExon;1stExon	cg04497927
		cg04498159R		cg04498159
LYL1	NM_005583	cg04499029F	Body	cg04499029
TNFRSF25;PLEKHG5;TNF	NM_148966;NM_001042663	cg04500986R	TSS1500;3'UTR;TSS150	cg04500986
		cg04501720F		cg04501720
GMPS	NM_003875	cg04502857F	Body	cg04502857
TRPM8	NM_024080	cg04506569F	Body	cg04506569
IL34	NM_152456	cg04509100R	TSS200	cg04509100
TSEN54	NM_207346	cg04510155R	Body	cg04510155
JMJD6;C17orf95;JMJD6;J	NM_001081461;NM_001080	cg04510639F	1stExon;TSS200;5'UTR;	cg04510639
RTN1;RTN1	NM_021136;NM_021136	cg04510871F	1stExon;5'UTR	cg04510871
SERPINA5	NM_000624	cg04513411F	TSS1500	cg04513411
		cg04514834F		cg04514834
ARAP1;ARAP1;ARAP1	NM_001135190;NM_001040	cg04521279R	5'UTR;Body;5'UTR	cg04521279

ZNF331;ZNF331	NM_001079906;NM_018555	cg04522821R	TSS200;5'UTR	cg04522821
ZNRF2;ZNRF2	NM_147128;NM_147128	cg04522931R	1stExon;5'UTR	cg04522931
		cg04525335R		cg04525335
		cg04525398R		cg04525398
DBF4;DBF4;SLC25A40	NM_006716;NM_006716;NM_006716	cg04525773F	1stExon;5'UTR;TSS1500	cg04525773
MSRB3;MSRB3	NM_001031679;NM_198080	cg04525892R	Body;Body	cg04525892
		cg04526737R		cg04526737
CAND2;CAND2	NM_001162499;NM_012298	cg04530127R	Body;Body	cg04530127
GOLGA7B	NM_001010917	cg04531794F	TSS200	cg04531794
KRT38	NM_006771	cg04534008F	Body	cg04534008
ASF1B	NM_018154	cg04534026R	Body	cg04534026
RARA;RARA;RARA	NM_001145301;NM_000964	cg04537170F	5'UTR;5'UTR;5'UTR	cg04537170
TMPRSS3;TMPRSS3;TMPNM	NM_024022;NR_027348;NM_024022	cg04537185F	Body;TSS1500;Body	cg04537185
SEMG1	NM_003007	cg04545516F	Body	cg04545516
CDKN1C;CDKN1C;CDKN1C	NM_001122630;NM_000076	cg04548378R	Body;1stExon;Body	cg04548378
BCAR3	NM_003567	cg04549418R	Body	cg04549418
LOC339524	NR_026989	cg04550823F	Body	cg04550823
		cg04551318F		cg04551318
		cg04551967R		cg04551967
LDB1	NM_001113407	cg04554652R	TSS1500	cg04554652
CDKN2AIP	NM_017632	cg04556418F	Body	cg04556418
CROCC	NM_014675	cg04558298R	Body	cg04558298
		cg04559481R		cg04559481
EPS8L2	NM_022772	cg04560630F	Body	cg04560630
TP73;TP73;TP73;TP73	NM_001126240;NM_005427	cg04562683F	Body;Body;Body;Body	cg04562683
TXNRD1	NM_001093771	cg04563169F	Body	cg04563169
NFKBIL2	NM_013432	cg04565464F	Body	cg04565464
		cg04568823F		cg04568823
ZNF768	NM_024671	cg04569888F	TSS1500	cg04569888
RNF187	NM_001010858	cg04570265R	Body	cg04570265
DNAJB14;DNAJB14	NM_001031723;NM_001031	cg04574592R	1stExon;5'UTR	cg04574592
		cg04574896R		cg04574896
		cg04577395F		cg04577395
PROCA1	NM_152465	cg04578090F	TSS1500	cg04578090
F10	NM_000504	cg04578149R	Body	cg04578149
ADSSL1	NM_152328	cg04578317R	TSS1500	cg04578317
		cg04579171R		cg04579171
IFITM1	NM_003641	cg04582010F	TSS1500	cg04582010
ZC3H11A	NM_014827	cg04582424R	TSS200	cg04582424
PIWIL3	NM_001008496	cg04583163F	5'UTR	cg04583163
TMEM161A	NM_017814	cg04583529R	3'UTR	cg04583529
		cg04584183F		cg04584183
ADD1;ADD1;ADD1;ADD1	NM_001119;NM_014190;NM_001119	cg04589118R	5'UTR;5'UTR;5'UTR;5'UTR	cg04589118
		cg04589649R		cg04589649
KCNG4	NM_172347	cg04590638F	Body	cg04590638
		cg04592208R		cg04592208
UVRAG	NM_003369	cg04598420F	Body	cg04598420
GAD2;GAD2;GAD2;GAD2	NM_001134366;NM_000818	cg04599297F	5'UTR;1stExon;5'UTR;1	cg04599297
LOC254559	NR_015411	cg04600027F	Body	cg04600027
FIP1L1;FIP1L1;FIP1L1	NM_030917;NM_001134937	cg04602787R	TSS200;TSS200;TSS200	cg04602787
CREB3L2	NM_194071	cg04604708R	Body	cg04604708
KCNQ2;KCNQ2;KCNQ2;	NM_172108;NM_172106;NM_172108	cg04605816F	Body;Body;Body;Body;	cg04605816
		cg04606471R		cg04606471
		cg04606830F		cg04606830

LEMD2;LEMD2	NM_181336;NM_181336	cg04607261F cg04607442R	5'UTR;1stExon	cg04607261 cg04607442
BRSK1	NM_032430	cg04607867F	3'UTR	cg04607867
FKBP4	NM_002014	cg04611395F	TSS1500	cg04611395
MEGF6	NM_001409	cg04611670R cg04618340R	Body	cg04611670 cg04618340
PDZD4	NM_032512	cg04619644F	Body	cg04619644
SLC25A33	NM_032315	cg04621676F	TSS200	cg04621676
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg04622731R	Body;Body;Body	cg04622731
TMCO7	NM_024562	cg04626855F	Body	cg04626855
PDE11A;PDE11A;PDE11A	NM_001077197;NM_016953	cg04628174F	Body;Body;5'UTR	cg04628174
RABL5;RABL5;RABL5;R	NM_001130821;NM_001130	cg04630748R	1stExon;5'UTR;5'UTR;1st	cg04630748
C10orf68	NM_024688	cg04630873F	3'UTR	cg04630873
PRMT2;PRMT2	NM_001535;NM_206962	cg04631283F	Body;Body	cg04631283
KCNQ1;KCNQ1	NM_000218;NM_181798	cg04635504F cg04636269F	Body;Body	cg04635504 cg04636269
PRND	NM_012409	cg04636876R cg04636881F cg04637967R cg04642165F cg04642738R	TSS200	cg04636876 cg04636881 cg04637967 cg04642165 cg04642738
SLC6A5	NM_004211	cg04642741F	TSS200	cg04642741
GPC6	NM_005708	cg04646842R	Body	cg04646842
INO80D	NM_017759	cg04647948F	5'UTR	cg04647948
SIM2;SIM2	NM_009586;NM_005069	cg04648480R	Body;Body	cg04648480
MTFR1;MTFR1;MTFR1	NM_001145839;NM_014637	cg04648500F cg04649441F	5'UTR;5'UTR;TSS1500	cg04648500 cg04649441
C5orf43	NM_001048249	cg04657419R	3'UTR	cg04657419
PRKCA	NM_002737	cg04658038R cg04663556F cg04664628R	3'UTR	cg04658038 cg04663556 cg04664628
TULP3;TULP3	NM_003324;NM_001160408	cg04665351R	TSS200;TSS200	cg04665351
LSP1	NM_002339	cg04666911F	TSS1500	cg04666911
C16orf45;C16orf45	NM_001142469;NM_033201	cg04668642F	TSS1500;Body	cg04668642
ABLIM3	NM_014945	cg04669407F cg04669895F cg04670568F	5'UTR	cg04669407 cg04669895 cg04670568
RGS10;RGS10	NM_002925;NM_001005339	cg04671206R	TSS1500;Body	cg04671206
TRPM4	NM_017636	cg04671386R	Body	cg04671386
CHRNA3;CHRNA3	NM_000743;NM_001166694	cg04671614R cg04671659F	TSS200;TSS200	cg04671614 cg04671659
MAGI2	NM_012301	cg04671932R	TSS200	cg04671932
ZNF469	NM_001127464	cg04675221F	TSS1500	cg04675221
DET1;DET1;DET1	NM_017996;NM_001144074	cg04676388F	5'UTR;5'UTR;Body	cg04676388
HGFAC	NM_001528	cg04677405F	Body	cg04677405
MAML2	NM_032427	cg04677410R	Body	cg04677410
ZBTB22;TAPBP;TAPBP;T	NM_005453;NM_003190;NM_003190	cg04678230F	Body;TSS1500;TSS1500	cg04678230
BAI1	NM_001702	cg04678462R	Body	cg04678462
MYT1L	NM_015025	cg04680209F	Body	cg04680209
CLEC14A;CLEC14A	NM_175060;NM_175060	cg04681600F cg04683418R	1stExon;5'UTR	cg04681600 cg04683418
MAGEB1;MAGEB1;MAGEB1	NM_177404;NM_002363;NM_002363	cg04685060R	5'UTR;5'UTR;5'UTR;1st	cg04685060
ZNF323;ZNF323;ZNF323;	NM_145909;NR_024164;NM_145909	cg04686012F	3'UTR;Body;3'UTR;3'U	cg04686012
PTGES3;PTGES3	NM_006601;NM_006601	cg04686114R	1stExon;5'UTR	cg04686114

		cg04686230R		cg04686230
FRMD4B	NM_015123	cg04689145R	Body	cg04689145
SACS	NM_014363	cg04691180F	5'UTR	cg04691180
MCF2L;MCF2L	NM_001112732;NM_024979	cg04691944R	Body;Body	cg04691944
		cg04693423F		cg04693423
PM20D2	NM_001010853	cg04693873R	1stExon	cg04693873
ANO7;ANO7	NM_001001666;NM_001001	cg04694619F	TSS200;TSS200	cg04694619
		cg04699668F		cg04699668
C1orf151;C1orf151	NM_001032363;NM_001032	cg04703227R	1stExon;5'UTR	cg04703227
		cg04703620F		cg04703620
C16orf71	NM_139170	cg04705084R	Body	cg04705084
HHIPL1	NM_001127258	cg04705318F	Body	cg04705318
		cg04707013R		cg04707013
NDUFB1	NM_004545	cg04711526R	3'UTR	cg04711526
ENTPD4;ENTPD4	NM_004901;NM_001128930	cg04712321F	5'UTR;5'UTR	cg04712321
CALM1;CALM1	NM_001166106;NM_006888	cg04712435F	TSS1500;TSS200	cg04712435
BCAR1;BCAR1;BCAR1;B	NM_001170718;NM_001170	cg04713634F	Body;Body;Body;Body;	cg04713634
		cg04714076F		cg04714076
		cg04715572F		cg04715572
		cg04720825R		cg04720825
SNX29	NM_001080530	cg04724177F	Body	cg04724177
		cg04726535F		cg04726535
		cg04726702F		cg04726702
RQCD1	NM_005444	cg04726824R	Body	cg04726824
		cg04728180F		cg04728180
CHPF	NM_024536	cg04729655F	3'UTR	cg04729655
ACSF3;ACSF3;ACSF3	NM_174917;NR_023316;NM	cg04730254R	Body;Body;Body	cg04730254
ESRRB	NM_004452	cg04732303R	5'UTR	cg04732303
		cg04734841F		cg04734841
BARD1	NM_000465	cg04737361R	TSS200	cg04737361
HEXIM2	NM_144608	cg04737993F	Body	cg04737993
MESDC2	NM_015154	cg04738379R	1stExon	cg04738379
C3orf26;FILIP1L;FILIP1L;	NM_032359;NM_182909;NM	cg04739149R	Body;5'UTR;5'UTR;1stE	cg04739149
MYADML	NR_003143	cg04744735F	Body	cg04744735
OSBPL5;OSBPL5;OSBPL5	NM_020896;NM_001144063	cg04750265F	Body;Body;Body	cg04750265
		cg04751032F		cg04751032
CACNA1H;CACNA1H	NM_021098;NM_001005407	cg04754196R	Body;Body	cg04754196
		cg04756287R		cg04756287
		cg04757081F		cg04757081
SNX32	NM_152760	cg04761267R	3'UTR	cg04761267
WDR25;WDR25	NM_024515;NM_001161476	cg04762815F	3'UTR;3'UTR	cg04762815
PITPNM1;PITPNM1	NM_001130848;NM_004910	cg04765955R	Body;Body	cg04765955
CACNG1	NM_000727	cg04766365R	TSS1500	cg04766365
		cg04767174R		cg04767174
SNX29	NM_001080530	cg04768745R	Body	cg04768745
DGKQ	NM_001347	cg04771133R	Body	cg04771133
PKD1;PKD1	NM_001009944;NM_000296	cg04781587F	Body;Body	cg04781587
BCAS3;BCAS3	NM_001099432;NM_017679	cg04784251R	Body;Body	cg04784251
		cg04785299F		cg04785299
C12orf11;FGFR1OP2;FGF	NM_018164;NM_015633;NM	cg04786330R	TSS200;5'UTR;1stExon	cg04786330
		cg04787775R		cg04787775
		cg04787916F		cg04787916
EXOC2	NM_018303	cg04789318F	5'UTR	cg04789318
ICMT	NM_012405	cg04790574F	3'UTR	cg04790574

DNAH12;DNAH12	NM_178504;NM_198564	cg04791162R		cg04791162
TBC1D16	NM_019020	cg04791456R	Body;Body	cg04791456
RBBP4;RBBP4;RBBP4;RBNM_001135255;NM_001135		cg04791718R	Body	cg04791718
		cg04791747F	5'UTR;TSS200;5'UTR;1	cg04791747
		cg04792227F		cg04792227
		cg04792777F		cg04792777
CRYZ;CRYZ;TYW3;CRY	NM_001130042;NM_001889	cg04794532F	TSS1500;TSS1500;Body	cg04794532
NLRC5	NM_032206	cg04799664F	5'UTR	cg04799664
DPP8;DPP8;DPP8;DPP8	NM_017743;NM_197961;NM_001135862	cg04799823R	TSS200;TSS200;TSS1500	cg04799823
HOXB3	NM_002146	cg04800503F	5'UTR	cg04800503
		cg04801647F		cg04801647
		cg04804321F		cg04804321
MIR33B;SREBF1;SREBF1	NR_030361;NM_004176;NM_001135862	cg04805065F	TSS1500;Body;Body	cg04805065
PHF21B;PHF21B	NM_138415;NM_001135862	cg04815242F	Body;Body	cg04815242
		cg04815707R		cg04815707
CYFIP1	NM_014608	cg04816434R	Body	cg04816434
RRM2;RRM2	NM_001165931;NM_001034	cg04817183R	1stExon;TSS200	cg04817183
ASPSR1	NM_024083	cg04817870R	Body	cg04817870
		cg04819167F		cg04819167
C15orf41	NM_001130010	cg04819351F	Body	cg04819351
		cg04819691R		cg04819691
ZC3H12C	NM_033390	cg04820195R	Body	cg04820195
N4BP2	NM_018177	cg04828041R	Body	cg04828041
		cg04830049F		cg04830049
LAMA2;LAMA2	NM_001079823;NM_000426	cg04831510R	Body;Body	cg04831510
KIRREL3;KIRREL3	NM_001161707;NM_032531	cg04832325R	Body;Body	cg04832325
DLEC1;DLEC1	NM_007337;NM_007335	cg04833533R	TSS1500;TSS1500	cg04833533
KLC1;XRCC3;XRCC3;KL	NM_182923;NM_001100119	cg04833878R	3'UTR;Body;Body;3'UTR	cg04833878
		cg04833885F		cg04833885
NTSR1	NM_002531	cg04834228F	3'UTR	cg04834228
C5orf52	NM_001145132	cg04835925R	3'UTR	cg04835925
		cg04836794F		cg04836794
		cg04839677R		cg04839677
		cg04841983F		cg04841983
MRPS18A	NM_018135	cg04842962F	1stExon	cg04842962
C11orf45;KCNJ5	NM_145013;NM_000890	cg04843085R	TSS1500;5'UTR	cg04843085
		cg04843340R		cg04843340
SNRPB2;SNRPB2	NM_198220;NM_003092	cg04843900R	TSS200;TSS200	cg04843900
SALL1;SALL1	NM_002968;NM_001127892	cg04844564R	Body;5'UTR	cg04844564
CCDC60	NM_178499	cg04845613F	Body	cg04845613
		cg04846348R		cg04846348
DDB2	NM_000107	cg04848972F	TSS1500	cg04848972
GNG12	NM_018841	cg04849985F	5'UTR	cg04849985
PLAC9	NM_001012973	cg04850286F	Body	cg04850286
		cg04850779R		cg04850779
		cg04852323F		cg04852323
PNRC2	NM_017761	cg04856657F	TSS200	cg04856657
SCRN1;SCRN1;SCRN1;SCNM_014766;NM_001145514		cg04858110R	5'UTR;Body;5'UTR;5'UTR	cg04858110
TMEM184A	NM_001097620	cg04859886R	Body	cg04859886
		cg04860082F		cg04860082
PTGER2	NM_000956	cg04860432R	Body	cg04860432
		cg04860622R		cg04860622
NFATC3;NFATC3;NFATC3	NM_173163;NM_004555;NM_001076684;NM_001076	cg04867052R	Body;3'UTR;Body	cg04867052
UBTF;UBTF		cg04867738F	TSS1500;TSS200	cg04867738

SMYD3;SMYD3	NM_022743;NM_001167740	cg04872593R cg04874825F cg04882175R	Body;Body	cg04872593 cg04874825 cg04882175
MIB2;MIB2;MIB2;MIB2;NMN_001170686;NM_001170		cg04882394F	3'UTR;3'UTR;3'UTR;Bo	cg04882394
TMPPE;GLB1;TMPPE;GL	NM_001136238;NM_001135	cg04883648F cg04885303F	5'UTR;Body;5'UTR;5'UT	cg04883648 cg04885303
GAGE12G;GAGE6;GAGE	NM_001098409;NM_001476	cg04886382F	TSS1500;TSS1500;TSS1	cg04886382
COL4A1	NM_001845	cg04887675F	Body	cg04887675
PABPC1	NM_002568	cg04888425R cg04889688R	Body	cg04888425 cg04889688
ALDH1L2;ALDH1L2	NM_001034173;NR_027752	cg04892391F	TSS200;TSS200	cg04892391
OR2AG1	NM_001004489	cg04895001R	TSS1500	cg04895001
ZNF33A;ZNF33A	NM_006954;NM_006974	cg04895363R	Body;Body	cg04895363
C16orf38	NM_001013658	cg04897041R	Body	cg04897041
GRIN2A;GRIN2A;GRIN2A	NM_001134407;NM_000833	cg04898487F	Body;Body;Body	cg04898487
TBC1D16	NM_019020	cg04902542R	Body	cg04902542
C17orf99	NM_001163075	cg04902833R	Body	cg04902833
ASNS;ASNS;ASNS	NM_001673;NM_183356;NM_	cg04903439F	3'UTR;3'UTR;3'UTR	cg04903439
ADCY2	NM_020546	cg04907257R cg04908013F	TSS1500	cg04907257 cg04908013
TRAPPC6B;TRAPPC6B	NM_177452;NM_001079537	cg04910692R	TSS1500;TSS1500	cg04910692
KCNMA1;KCNMA1;KCN	NM_001161353;NM_001161	cg04912778F	Body;Body;Body;Body	cg04912778
GRIK4	NM_014619	cg04913851R cg04914814R	Body	cg04913851 cg04914814
EIF3A	NM_003750	cg04915533F	Body	cg04915533
PPP1R9A;PPP1R9A;PPP1	NM_001166161;NM_001166	cg04916107R	TSS1500;5'UTR;TSS150	cg04916107
PC;PC;PC	NM_000920;NM_022172;NM_	cg04917258F cg04920194R	5'UTR;5'UTR;5'UTR	cg04917258 cg04920194
CCNY;CCNY	NM_145012;NM_181698	cg04922063R	Body;5'UTR	cg04922063
EVX1	NM_001989	cg04922154R	Body	cg04922154
C10orf11	NM_032024	cg04923197R	Body	cg04923197
SCYL2;DEPDC4	NM_017988;NM_152317	cg04924415R	TSS200;TSS1500	cg04924415
PCID2;PCID2;CUL4A;PCI	NM_018386;NM_001127202	cg04925824R cg04926461F	5'UTR;5'UTR;TSS1500;	cg04925824 cg04926461
LOC644172	NR_026901	cg04927033R	Body	cg04927033
COL24A1	NM_152890	cg04927341F	Body	cg04927341
CA5BP	NR_026551	cg04931939R	Body	cg04931939
CAMKK2;CAMKK2;CAM	NM_172215;NM_172216;NM_	cg04932465F cg04935436F cg04936009R cg04936639R	5'UTR;5'UTR;5'UTR;5'U	cg04932465 cg04935436 cg04936009 cg04936639
PKD1L1	NM_138295	cg04937696F cg04940764R cg04943065F cg04944611F	Body	cg04937696 cg04940764 cg04943065 cg04944611
CFB	NM_001710	cg04945153R cg04947907R	Body	cg04945153 cg04947907
ARID1B;ARID1B;ARID1	NM_017519;NM_175863;NM_	cg04949193F	Body;Body;Body	cg04949193
LHPP;LHPP	NM_022126;NM_001167880	cg04949429R cg04951804R	Body;Body	cg04949429 cg04951804
FMNL2	NM_052905	cg04953238F	Body	cg04953238
FAM82B	NM_016033	cg04958252F cg04960602R cg04964676R	Body	cg04958252 cg04960602 cg04964676



MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg04970839F cg04971401F cg04974940F	Body;Body;Body	cg04970839 cg04971401 cg04974940
TRAPPC2L;GALNS	NM_016209;NM_000512	cg04975846F cg04976154F	Body;TSS1500	cg04975846 cg04976154
SEC23A	NM_006364	cg04977983F	5'UTR	cg04977983
DGKD;DGKD	NM_152879;NM_003648	cg04979655F cg04983327F cg04984039F cg04988918R	Body;Body	cg04979655 cg04983327 cg04984039 cg04988918
S100A10	NM_002966	cg04989070R	5'UTR	cg04989070
PNPLA7;PNPLA7	NM_152286;NM_001098537	cg04990605R cg04990609R cg04993364R	Body;Body	cg04990605 cg04990609 cg04993364
IL2RB	NM_000878	cg04995291F	TSS1500	cg04995291
SNORD113-2	NR_003230	cg04997124F cg05000860R	TSS1500	cg04997124 cg05000860
LOR	NM_000427	cg05001111R	5'UTR	cg05001111
IMPDH1;IMPDH1;IMPDH	NM_001142576;NM_183243	cg05001908R	Body;Body;Body;1stExon	cg05001908
DCTN5;PALB2;DCTN5	NM_032486;NM_024675;NM_05002041R	cg05002041R	5'UTR;TSS200;1stExon	cg05002041
TUB;TUB	NM_177972;NM_003320	cg05003666R	TSS200;Body	cg05003666
CHTF18	NM_022092	cg05005382R	Body	cg05005382
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_05005422R	cg05005422R	Body;Body;Body	cg05005422
C14orf49	NM_152592	cg05006302R	Body	cg05006302
NDUFB1;CPSF2;CPSF2	NM_004545;NM_017437;NM_05007375F	cg05007375F	TSS1500;5'UTR;1stExon	cg05007375
KIN	NM_012311	cg05008854R	Body	cg05008854
CPA5;CPA5;CPA5	NM_001127441;NM_001127	cg05009018F	Body;Body;Body	cg05009018
NCKAP5;NCKAP5	NM_207363;NM_207481	cg05012457F cg05012661R	Body;Body	cg05012457 cg05012661
DDX52;DDX52	NM_152300;NM_007010	cg05013942F	5'UTR;Body	cg05013942
ZNF696	NM_030895	cg05020822F	TSS1500	cg05020822
BANP;BANP	NM_017869;NM_079837	cg05021394R	Body;Body	cg05021394
ARL3	NM_004311	cg05024762R cg05025392F	Body	cg05024762 cg05025392
TPSG1	NM_012467	cg05026881F cg05032059R cg05033560F cg05033803R cg05034125F	TSS1500	cg05026881 cg05032059 cg05033560 cg05033803 cg05034125
IRF6	NM_006147	cg05034446F cg05040338F	Body	cg05034446 cg05040338
CREB3L2	NM_194071	cg05041511R cg05042749R	Body	cg05041511 cg05042749
NDUFS2;NDUFS2	NM_004550;NM_001166159	cg05043311R	Body;Body	cg05043311
DOCK5	NM_024940	cg05043716R	Body	cg05043716
KLHL15	NM_030624	cg05044339R	5'UTR	cg05044339
BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_05046936F	cg05046936F	Body;Body;Body;Body	cg05046936
TSNARE1	NM_145003	cg05048685R cg05049028F	Body	cg05048685 cg05049028
NUCKS1	NM_022731	cg05051117F	TSS1500	cg05051117
HRNBP3	NM_001082575	cg05051628F	5'UTR	cg05051628
UBE2E1;UBE2E1	NM_003341;NM_182666	cg05052214R	Body;Body	cg05052214
DCBLD1	NM_173674	cg05053978R	Body	cg05053978
MAG;MAG	NM_080600;NM_002361	cg05055150F	5'UTR;5'UTR	cg05055150

KIAA1609	NM_020947	cg05059571F	TSS1500	cg05059571
TMEM18	NM_152834	cg05060085F	Body	cg05060085
SFXN5	NM_144579	cg05062556F	Body	cg05062556
PNMT	NM_002686	cg05064665F	TSS1500	cg05064665
		cg05065162R		cg05065162
TERT;TERT	NM_198255;NM_198253	cg05068597F	Body;Body	cg05068597
NRG1	NM_013962	cg05072063F	Body	cg05072063
NR3C2;NR3C2	NM_000901;NM_001166104	cg05075176R	5'UTR;5'UTR	cg05075176
		cg05081352F		cg05081352
		cg05082376F		cg05082376
		cg05082708R		cg05082708
		cg05084700R		cg05084700
LOC387647	NR_003930	cg05086789R	Body	cg05086789
		cg05090966F		cg05090966
		cg05091921F		cg05091921
		cg05092304F		cg05092304
		cg05092308F		cg05092308
MARCH1	NM_001166373	cg05093071R	5'UTR	cg05093071
YSK4;YSK4	NM_001018046;NM_025052	cg05097015R	TSS1500;TSS1500	cg05097015
MYO19;MYO19;MYO19;PNM_001033580;NM_025109		cg05097593R	5'UTR;5'UTR;5'UTR;TS	cg05097593
ZYX;ZYX	NM_003461;NM_001010972	cg05102190R	TSS200;TSS200	cg05102190
FZD3	NM_017412	cg05102651R	TSS200	cg05102651
		cg05112967F		cg05112967
ZFYVE27;ZFYVE27;ZFY	NM_001002261;NM_144588	cg05115182R	1stExon;1stExon;1stExon;	cg05115182
MTA1	NM_004689	cg05120150F	Body	cg05120150
UCRC;UCRC	NM_013387;NM_001003684	cg05120501R	3'UTR;3'UTR	cg05120501
PRKCB;PRKCB	NM_002738;NM_212535	cg05120716F	Body;Body	cg05120716
MTG1	NM_138384	cg05121603R	Body	cg05121603
SUSD2	NM_019601	cg05124770F	Body	cg05124770
DYNC1I1;DYNC1I1;DYN	NM_001135557;NM_004411	cg05128566R	1stExon;5'UTR;5'UTR;1stExon;	cg05128566
		cg05133090F		cg05133090
		cg05134325R		cg05134325
HLA-DPB2	NR_001435	cg05137443F	Body	cg05137443
		cg05138148R		cg05138148
TUB	NM_003320	cg05140433R	TSS200	cg05140433
UBR5	NM_015902	cg05143954R	Body	cg05143954
		cg05149097R		cg05149097
SLC25A28	NM_031212	cg05149213R	TSS1500	cg05149213
SSH1;SSH1	NM_001161330;NM_018984	cg05152479F	Body;Body	cg05152479
ASPM	NM_018136	cg05153791F	TSS1500	cg05153791
CLIC1;DDAH2	NM_001288;NM_013974	cg05157492F	Body;TSS1500	cg05157492
PIR;PIR	NM_003662;NM_001018109	cg05157702F	5'UTR;5'UTR	cg05157702
PTPN20B;PTPN20A;PTPN	NM_001042359;NM_001042	cg05157833R	Body;5'UTR;Body;Body	cg05157833
KIF3C	NM_002254	cg05159145R	TSS200	cg05159145
NF1;NF1	NM_001042492;NM_000267	cg05161529F	3'UTR;3'UTR	cg05161529
ZDHHC3;ZDHHC3;EXOS	NM_001135179;NM_001135	cg05161795R	TSS1500;TSS1500;Body;	cg05161795
		cg05162358R		cg05162358
TMEM187	NM_003492	cg05162528R	5'UTR	cg05162528
SH3PXD2A	NM_014631	cg05162794R	3'UTR	cg05162794
		cg05167857R		cg05167857
		cg05169812R		cg05169812
		cg05170366F		cg05170366
		cg05170582F		cg05170582
SNORD115-10	NR_003302	cg05171761R	TSS1500	cg05171761



CDH4	NM_001794	cg05274680F	Body	cg05274680
NR1H2	NM_007121	cg05276338F	Body	cg05276338
C2orf88;C2orf88;C2orf88;CNM_001042519;NM_032321		cg05277425R	3'UTR;3'UTR;3'UTR;3'UTR	cg05277425
BANP;BANP	NM_017869;NM_079837	cg05277466R	Body;Body	cg05277466
CDK6;CDK6	NM_001259;NM_001145306	cg05278074R	Body;Body	cg05278074
MDGA2	NM_001113498	cg05278500F	Body	cg05278500
BTG4;C11orf88;C11orf88;NM_017589;NM_001100388		cg05281603R	TSS1500;TSS1500;TSS1500	cg05281603
RGPD1;RGPD2	NM_001024457;NM_001078	cg05281965F cg05282889R	Body;Body	cg05281965 cg05282889
CES3	NM_024922	cg05282905R cg05283716F cg05285768F	3'UTR	cg05282905 cg05283716 cg05285768
NFRKB;NFRKB	NM_001143835;NM_006165	cg05286791R	5'UTR;TSS1500	cg05286791
LOC440461	NR_027283	cg05288475F	Body	cg05288475
LMF1	NM_022773	cg05290056R	3'UTR	cg05290056
ADCK2	NM_052853	cg05290708F	TSS200	cg05290708
FANK1	NM_145235	cg05292501F cg05294259F	TSS200	cg05292501 cg05294259
RREB1;RREB1;RREB1;RRNM_001003698;NM_001003		cg05295286R	Body;Body;Body;Body	cg05295286
INPP5A	NM_005539	cg05296608F cg05298375F cg05300773F	Body	cg05296608 cg05298375 cg05300773
TBR1	NM_006593	cg05301866F	Body	cg05301866
KCNQ1	NM_000218	cg05302416R	TSS200	cg05302416
NFATC1;NFATC1;NFATC1;NM_006162;NM_172388;NM_05302701F		cg05302701F	Body;5'UTR;Body;Body	cg05302701
ZC3H14;ZC3H14;ZC3H14	NM_207661;NM_001160104	cg05304806R cg05305060R	5'UTR;Body;Body;Body	cg05304806 cg05305060
ZNF273;ZNF273	NR_003099;NM_021148	cg05306735R cg05307070R	TSS200;TSS200	cg05306735 cg05307070
SMAD7	NM_005904	cg05310557R	TSS200	cg05310557
FGFR3;FGFR3;FGFR3	NM_001163213;NM_000142	cg05311119F cg05311909R	Body;Body;Body	cg05311119 cg05311909
ADAMTSL3	NM_207517	cg05315510R	Body	cg05315510
RFX2;RFX2	NM_000635;NM_134433	cg05322127R	Body;Body	cg05322127
ZNF626;ZNF626	NM_145297;NM_001076675	cg05322870R	TSS1500;TSS1500	cg05322870
NXN	NM_022463	cg05322931R	Body	cg05322931
ZBTB46	NM_025224	cg05325480R cg05327844F cg05331252F	Body	cg05325480 cg05327844 cg05331252
ASGR1	NM_001671	cg05331340F	TSS200	cg05331340
C11orf68;C11orf68;DRAP1;NM_001135635;NM_031450		cg05331626R	TSS200;TSS200;TSS200	cg05331626
VASH2;VASH2;VASH2	NM_001136475;NM_024749	cg05332152R cg05339976F	TSS1500;TSS1500;TSS1500	cg05332152 cg05339976
PRKCZ;PRKCZ;PRKCZ	NM_001033581;NM_001033	cg05340048F cg05340085F	Body;Body;Body	cg05340048 cg05340085
CHST15	NM_015892	cg05342655F	Body	cg05342655
OR10AG1	NM_001005491	cg05343512R	TSS1500	cg05343512
NUP98;NUP98	NM_016320;NM_139132	cg05344046F cg05347948F	Body;Body	cg05344046 cg05347948
CRK;CRK	NM_005206;NM_016823	cg05348421R	TSS1500;TSS1500	cg05348421
MIR618;LIN7A	NR_030349;NM_004664	cg05348982F	TSS1500;Body	cg05348982
PTPRCAP	NM_005608	cg05353099R cg05357750R	Body	cg05353099 cg05357750
C16orf55;CHMP1A;CHMP1A;NM_153025;NM_002768;NM_05358715F		cg05358715F	Body;TSS200;TSS200	cg05358715

INPP4A;INPP4A;INPP4A;INM_001566;NM_004027;NMcg05358946F			5'UTR;5'UTR;5'UTR;5'Ucg05358946
HS3ST3A1	NM_006042	cg05361290F	Body cg05361290
FAM65A	NM_024519	cg05362168F	TSS1500 cg05362168
RAD54L;RAD54L	NM_001142548;NM_003579	cg05363350F	Body;Body cg05363350
NR5A2;NR5A2	NM_205860;NM_003822	cg05366139F	Body;Body cg05366139
FBF1	NM_001080542	cg05366495F	Body cg05366495
C19orf22	NM_138774	cg05368115R	Body cg05368115
		cg05370462R	cg05370462
LOC284379	NR_002938	cg05371599F	TSS1500 cg05371599
ABCA7	NM_019112	cg05372495R	Body cg05372495
NR2E1	NM_003269	cg05380821R	Body cg05380821
HLA-DRB1	NM_002124	cg05383619R	Body cg05383619
CSNK1D;CSNK1D	NM_001893;NM_139062	cg05385188R	Body;Body cg05385188
EFEMP1;EFEMP1;EFEMP1;NM_004105;NM_001039349		cg05385513F	TSS200;5'UTR;5'UTR cg05385513
TCHHL1	NM_001008536	cg05388137F	3'UTR cg05388137
VAC14	NM_018052	cg05388330R	Body cg05388330
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NMcg05389266R		Body;Body;Body cg05389266
CPM;CPM;CPM	NM_198320;NM_001005502	cg05391255R	Body;Body;Body cg05391255
RAB6B	NM_016577	cg05393726R	TSS1500 cg05393726
C14orf28	NM_001017923	cg05393777R	5'UTR cg05393777
MPG;MPG;MPG	NM_001015054;NM_001015	cg05394456F	5'UTR;Body;5'UTR cg05394456
SNORD115-15;SNORD115NR_003307;NR_003313;NRcg05395353F			Body;Body;TSS1500;TS cg05395353
ALOX15	NM_001140	cg05397535R	Body cg05397535
		cg05397886R	cg05397886
C16orf74	NM_206967	cg05399613F	3'UTR cg05399613
SLC16A10;SLC16A10	NM_018593;NM_018593	cg05402854F	1stExon;5'UTR cg05402854
		cg05403347R	cg05403347
LIPE;LIPE	NM_005357;NM_005357	cg05404847R	1stExon;5'UTR cg05404847
BAT3;BAT3;BAT3;BAT3	NM_001098534;NM_004639	cg05407396F	5'UTR;5'UTR;5'UTR;5'Ucg05407396
GRID2IP	NM_001145118	cg05413957F	Body cg05413957
DNAH17	NM_173628	cg05414903R	TSS200 cg05414903
		cg05418106R	cg05418106
KIAA1967;KIAA1967	NM_199205;NM_021174	cg05418938F	3'UTR;3'UTR cg05418938
DKFZP434L187	NR_026771	cg05420234F	Body cg05420234
OR5I1	NM_006637	cg05421392F	TSS1500 cg05421392
FBXL13;FBXL13	NM_145032;NM_001111038	cg05423304F	Body;Body cg05423304
FMNL1	NM_005892	cg05423688F	TSS200 cg05423688
HTRA1	NM_002775	cg05426956F	Body cg05426956
C6orf153	NM_033112	cg05428912R	TSS200 cg05428912
ADARB2	NM_018702	cg05431532R	Body cg05431532
TPTE;TPTE;TPTE;TPTE;TNM_199261;NM_199259;NMcg05437132F			1stExon;1stExon;1stExoncg05437132
CPOX	NM_000097	cg05442602F	TSS1500 cg05442602
		cg05443389F	cg05443389
JPH3	NM_020655	cg05443795R	Body cg05443795
		cg05445006R	cg05445006
ARID1A;ARID1A	NM_139135;NM_006015	cg05445839R	1stExon;1stExon cg05445839
RAP1A;RAP1A	NM_001010935;NM_002884	cg05447486R	TSS200;TSS200 cg05447486
		cg05452354R	cg05452354
MYADML2	NM_001145113	cg05453314R	5'UTR cg05453314
		cg05453924R	cg05453924
HIST1H2BH;HIST1H3F	NM_003524;NM_021018	cg05457344R	1stExon;TSS1500 cg05457344
		cg05458412F	cg05458412
PEX10;PEX10	NM_002617;NM_153818	cg05461259R	TSS1500;TSS1500 cg05461259
		cg05462922F	cg05462922

NDUFS8	NM_002496	cg05463966F	Body	cg05463966
SF1;SF1;SF1	NM_201995;NM_201998;NM_201999	cg05464016F	Body;Body;Body	cg05464016
INPP5A	NM_005539	cg05464589R	Body	cg05464589
SSPO	NM_198455	cg05467890R	Body	cg05467890
RREB1;RREB1;RREB1;RREB1	NM_001003698;NM_001003700	cg05468429R	Body;Body;Body;Body	cg05468429
NCAPG2	NM_017760	cg05469916F	TSS200	cg05469916
STK32A;STK32A	NM_001112724;NM_145001	cg05471465F	TSS200;TSS200	cg05471465
CSTF1;AURKA;AURKA;AURKA	NM_001033522;NM_198434	cg05471521F	5'UTR;TSS1500;TSS1500	cg05471521
SCHIP1	NM_014575	cg05475107R	Body	cg05475107
APBB1IP;APBB1IP	NM_019043;NM_019043	cg05475934R	1stExon;5'UTR	cg05475934
		cg05477517R		cg05477517
LOC100132963	NM_001162936	cg05483199R	Body	cg05483199
RHOQ	NM_012249	cg05483534F	Body	cg05483534
COPS5	NM_006837	cg05484231R	Body	cg05484231
		cg05484505R		cg05484505
		cg05486616F		cg05486616
STAT3;STAT3;STAT3	NM_213662;NM_003150;NM_003150	cg05487134F	Body;Body;Body	cg05487134
LOC404266;LOC404266;LOC404266	NR_033203;NR_033205;NR_033205	cg05490023F	Body;Body;Body;Body;5'UTR	cg05490023
HLA-DRA	NM_019111	cg05500783R	Body	cg05500783
F13A1	NM_000129	cg05501407F	3'UTR	cg05501407
LOC100129550	NR_024618	cg05502766R	TSS1500	cg05502766
COX7A2L	NM_004718	cg05504732R	TSS200	cg05504732
		cg05506475R		cg05506475
ANKRD11	NM_013275	cg05507697R	5'UTR	cg05507697
SRGAP1	NM_020762	cg05508355R	Body	cg05508355
MGAT4C	NM_013244	cg05511530F	5'UTR	cg05511530
PLEKHF1	NM_024310	cg05512099R	TSS1500	cg05512099
ERBB2;ERBB2	NM_001005862;NM_004448	cg05512684R	Body;Body	cg05512684
		cg05513274R		cg05513274
DNAJB1	NM_006145	cg05514743F	1stExon	cg05514743
PXDN	NM_012293	cg05514883F	Body	cg05514883
LOC100271836	NR_027155	cg05515414R	Body	cg05515414
WBSCR17	NM_022479	cg05518130F	Body	cg05518130
MRPS34;EME2	NM_023936;NM_001010865	cg05518842R	TSS200;1stExon	cg05518842
TFAP4	NM_003223	cg05520349F	Body	cg05520349
		cg05520687R		cg05520687
		cg05521474R		cg05521474
TERT;TERT	NM_198255;NM_198253	cg05521538F	Body;Body	cg05521538
		cg05526438F		cg05526438
		cg05526832F		cg05526832
		cg05527416R		cg05527416
		cg05527468R		cg05527468
INTS4	NM_033547	cg05528999R	Body	cg05528999
GPC1	NM_002081	cg05530403R	Body	cg05530403
LOC162632	NR_003190	cg05530484R	TSS1500	cg05530484
		cg05533233R		cg05533233
		cg05534865R		cg05534865
HAUS2;HAUS2	NM_018097;NM_001130447	cg05538724R	Body;Body	cg05538724
AGBL2	NM_024783	cg05547140R	TSS200	cg05547140
		cg05547152R		cg05547152
CMTM6	NM_017801	cg05547221R	Body	cg05547221
LCNL1;LCNL1	NM_207510;NM_207510	cg05548349F	5'UTR;1stExon	cg05548349
ADAMTS18	NM_199355	cg05548956F	Body	cg05548956
MBD1;MBD1;MBD1;MBD1	NM_015847;NM_002384;NM_002384;NM_002384	cg05549078F	1stExon;1stExon;5'UTR;5'UTR	cg05549078

		cg05549970R		cg05549970
		cg05550202F		cg05550202
		cg05552543R		cg05552543
		cg05552796F		cg05552796
		cg05556535F		cg05556535
C17orf93	NR_024103	cg05557449R	Body	cg05557449
		cg05558259R		cg05558259
MYH4	NM_017533	cg05558937F	TSS1500	cg05558937
C5orf36	NM_001145678	cg05562386F	Body	cg05562386
		cg05567726F		cg05567726
UBTF;UBTF	NM_001076684;NM_001076	cg05568761R	TSS1500;5'UTR	cg05568761
ZNF610;ZNF610;ZNF610	NM_001161427;NM_001161	cg05572047R	TSS1500;TSS1500;TSS1500	cg05572047
PIGA;PIGA	NM_020473;NM_002641	cg05572164F	5'UTR;Body	cg05572164
RNF217	NM_152553	cg05572930F	3'UTR	cg05572930
SLC39A4;SLC39A4	NM_130849;NM_017767	cg05574324R	TSS200;TSS1500	cg05574324
ZNF92;ZNF92	NM_152626;NM_007139	cg05575601F	TSS200;TSS200	cg05575601
JPH4;JPH4	NM_001146028;NM_032452	cg05576328F	Body;Body	cg05576328
DUSP4;DUSP4	NM_057158;NM_001394	cg05576828F	Body;Body	cg05576828
IGF2BP2;IGF2BP2	NM_001007225;NM_006548	cg05576949R	Body;Body	cg05576949
		cg05577016F		cg05577016
GAK	NM_005255	cg05577957R	Body	cg05577957
FADS3	NM_021727	cg05579731F	Body	cg05579731
STAR;STAR	NM_001007243;NM_000349	cg05580671F	Body;Body	cg05580671
		cg05582286F		cg05582286
CLNK	NM_052964	cg05582979F	TSS1500	cg05582979
		cg05584990R		cg05584990
		cg05585551R		cg05585551
MSL2;MSL2	NM_001145417;NM_018133	cg05587853F	TSS1500;TSS200	cg05587853
CD69;CD69;CD69	NM_001781;NR_026672;NR_026672	cg05590294R	1stExon;Body;Body	cg05590294
		cg05591196R		cg05591196
		cg05596814F		cg05596814
		cg05597908F		cg05597908
PSMD13;PSMD13	NM_002817;NM_175932	cg05600342R	Body;Body	cg05600342
GALC;GALC	NM_000153;NM_001037525	cg05601096R	TSS1500;TSS1500	cg05601096
TFR2	NM_003227	cg05602715F	3'UTR	cg05602715
C6orf227	NR_027908	cg05602975R	TSS200	cg05602975
		cg05603610F		cg05603610
SNORD58A;RPL17;RPL17	NR_002571;NM_000985;NM_000985	cg05605377F	TSS200;Body;Body	cg05605377
		cg05605980R		cg05605980
TSEN54;CASKIN2;CASKIN2	NM_020753;NM_020753;NM_020753	cg05606039F	TSS1500;1stExon;5'UTR	cg05606039
TTBK1	NM_032538	cg05606072R	Body	cg05606072
KISS1	NM_002256	cg05606799F	5'UTR	cg05606799
MIPEP	NM_005932	cg05606948F	Body	cg05606948
GMFG;GMFG	NM_004877;NM_004877	cg05607401F	5'UTR;1stExon	cg05607401
ANAPC1	NM_022662	cg05609408R	Body	cg05609408
POM121	NM_172020	cg05610699R	TSS1500	cg05610699
		cg05615443R		cg05615443
ARHGAP19	NM_032900	cg05617127F	Body	cg05617127
FTL	NM_000146	cg05617973F	Body	cg05617973
		cg05620791R		cg05620791
IFT88;IFT88	NM_175605;NM_006531	cg05622300F	Body;Body	cg05622300
TERF2	NM_005652	cg05622441F	TSS200	cg05622441
HSD3B7;HSD3B7;HSD3B7	NM_001142778;NM_025193	cg05624853R	3'UTR;3'UTR;3'UTR	cg05624853
RGS20	NM_170587	cg05628160R	Body	cg05628160

YSK4;YSK4	NM_025052;NM_001018046	cg05629982R	Body;Body	cg05629982
ZNF735	NM_001159524	cg05632088F	TSS200	cg05632088
ABR;ABR;ABR	NM_021962;NM_001092;NM_001092	cg05633070F	Body;Body;Body	cg05633070
ZNF525	NR_003699	cg05633225R	Body	cg05633225
CARKD	NM_018210	cg05640533F	Body	cg05640533
GOLGA8E	NM_001012423	cg05641180F	3'UTR	cg05641180
CXCL3	NM_002090	cg05641882F	TSS200	cg05641882
PLA2G16;PLA2G16	NM_001128203;NM_007069	cg05642283R	Body;Body	cg05642283
FTSJ3	NM_017647	cg05642923F	3'UTR	cg05642923
TNN	NM_022093	cg05643339F	TSS1500	cg05643339
PHF14;PHF14	NM_001007157;NM_014660	cg05644151F	Body;Body	cg05644151
LOC729121;RGPD4;RGPDNR_024439;NM_182588;NM_182588	cg05645997R	cg05645997R	TSS1500;1stExon;5'UTR	cg05645997
CHRM1	NM_000738	cg05650628F	Body	cg05650628
		cg05651143R		cg05651143
NRD1;NRD1	NM_002525;NM_001101662	cg05651393F	Body;Body	cg05651393
		cg05653055R		cg05653055
		cg05654289F		cg05654289
BTAF1	NM_003972	cg05655935F	TSS200	cg05655935
PLK1	NM_005030	cg05657488F	TSS1500	cg05657488
KSR2	NM_173598	cg05658717R	TSS1500	cg05658717
CLSTN1;CLSTN1	NM_001009566;NM_014944	cg05659773F	Body;Body	cg05659773
ZNF747	NM_023931	cg05660315F	3'UTR	cg05660315
SPPL2B;SPPL2B	NM_001077238;NM_152988	cg05660874F	Body;Body	cg05660874
C18orf10;KIAA1328;C18orf10	NM_015476;NM_020776;NM_020776	cg05666571R	5'UTR;TSS200;1stExon	cg05666571
IGFN1	NM_001164586	cg05666713F	Body	cg05666713
DGKQ	NM_001347	cg05667917R	Body	cg05667917
		cg05668667F		cg05668667
TRIM50;FKBP6;FKBP6;FKBP6	NM_178125;NM_003602;NM_003602	cg05669157F	TSS200;TSS200;1stExon	cg05669157
SDK1;SDK1	NR_027816;NM_152744	cg05669845R	Body;Body	cg05669845
FLJ45983;GATA3;GATA3	NR_024255;NM_002051;NM_002051	cg05671070R	TSS1500;TSS1500;TSS1500	cg05671070
SLC25A4	NM_001151	cg05671585F	TSS1500	cg05671585
FBXL13;FBXL13	NM_145032;NM_001111038	cg05671644F	Body;Body	cg05671644
		cg05673432R		cg05673432
HERC6;HERC6	NM_017912;NM_001165136	cg05675249F	TSS200;TSS200	cg05675249
TBX6	NM_004608	cg05676562R	Body	cg05676562
RELL1;RELL1	NM_001085400;NM_001085	cg05679403R	Body;Body	cg05679403
ZBTB12	NM_181842	cg05680710F	Body	cg05680710
KCTD5	NM_018992	cg05681670F	Body	cg05681670
		cg05683292R		cg05683292
TNRC18	NM_001080495	cg05687083F	Body	cg05687083
MIR1258;ZNF385B	NR_031659;NM_152520	cg05687686R	TSS1500;TSS1500	cg05687686
NCK2;NCK2;NCK2	NM_001004722;NM_001004	cg05688617R	Body;Body;Body	cg05688617
		cg05691530R		cg05691530
		cg05696678F		cg05696678
FADS2	NM_004265	cg05698098R	TSS1500	cg05698098
HCG27	NR_026791	cg05699123F	TSS1500	cg05699123
DCAF6;BRP44;BRP44;BRP44	NM_018442;NM_001143674	cg05702448F	TSS1500;5'UTR;5'UTR;	cg05702448
ABCC1;ABCC1;ABCC1;ABCC1	NM_019862;NM_019898;NM_019898	cg05702725F	Body;Body;Body;Body;	cg05702725
PGD;PGD	NM_002631;NM_002631	cg05704155F	5'UTR;1stExon	cg05704155
C20orf111	NM_016470	cg05705089R	5'UTR	cg05705089
FAM179A	NM_199280	cg05707236F	5'UTR	cg05707236
CAMTA1	NM_015215	cg05708629R	Body	cg05708629
PARD3	NM_019619	cg05709402R	Body	cg05709402
NF1;OMG;NF1	NM_001042492;NM_002544	cg05709720F	Body;Body;Body	cg05709720



RFWD3	NM_018124	cg05711284F cg05713149R	5'UTR	cg05711284 cg05713149
SYNPO;SYNPO	NM_001166208;NM_001166	cg05714559R	1stExon;5'UTR	cg05714559
LMF1	NM_022773	cg05717959F	Body	cg05717959
CD19	NM_001770	cg05718426F	Body	cg05718426
SETD6;SETD6	NM_001160305;NM_024860	cg05725686F	3'UTR;3'UTR	cg05725686
RAC1;RAC1;RAC1;RAC1	NM_006908;NM_018890;NM_001166	cg05725797R	5'UTR;5'UTR;1stExon;1stExon	cg05725797
GSDMB;GSDMB;GSDMB	NM_018530;NM_001042471	cg05725940F	TSS1500;TSS200;TSS200	cg05725940
TPRKB	NM_016058	cg05730099F cg05732081R	TSS200	cg05730099 cg05732081
LRR59	NM_018509	cg05733026R	TSS200	cg05733026
WFDC6	NM_080827	cg05733285F	TSS200	cg05733285
C4orf44;C4orf44	NM_001012982;NM_001042	cg05733917F cg05738251R	1stExon;1stExon	cg05733917 cg05738251
CUL2	NM_003591	cg05740071F	3'UTR	cg05740071
KLKB1	NM_000892	cg05740254F cg05740763F	TSS200	cg05740254 cg05740763
GAK	NM_005255	cg05741730R	Body	cg05741730
UBFD1;EARS2;EARS2	NM_019116;NM_001083614	cg05742564F cg05744395R	TSS200;TSS200;TSS200	cg05742564 cg05744395
TMEM86A	NM_153347	cg05744487F	TSS200	cg05744487
THSD4	NM_024817	cg05745461R	TSS1500	cg05745461
KCNU1	NM_001031836	cg05749559R	3'UTR	cg05749559
SORCS2	NM_020777	cg05751839F	Body	cg05751839
KCNG3;KCNG3	NM_133329;NM_172344	cg05759424F	TSS200;TSS200	cg05759424
MAPK4	NM_002747	cg05761564R	Body	cg05761564
HTR7;HTR7;HTR7	NM_019860;NM_000872;NM_001083614	cg05762326R cg05764010R	Body;Body;Body	cg05762326 cg05764010
ADCY9	NM_001116	cg05765011F	Body	cg05765011
VWA5A;VWA5A;VWA5A	NM_014622;NM_198315;NM_001083614	cg05765761R	TSS1500;TSS1500;TSS1500	cg05765761
CASZ1;CASZ1	NM_017766;NM_001079843	cg05767489F	Body;Body	cg05767489
ROGDI	NM_024589	cg05768041F	Body	cg05768041
MAPK8IP3;MAPK8IP3	NM_001040439;NM_015133	cg05772935F	Body;Body	cg05772935
SYT1;SYT1;SYT1	NM_001135806;NM_001135	cg05773164R	TSS1500;5'UTR;5'UTR	cg05773164
RPTOR;RPTOR	NM_001163034;NM_020761	cg05774614F	Body;Body	cg05774614
LOC440461	NR_027283	cg05778440R cg05779088F	Body	cg05778440 cg05779088
MKRN1;MKRN1;MKRN1	NM_013446;NM_013446;NM_001083614	cg05782078R	5'UTR;1stExon;1stExon;1stExon	cg05782078
ZCCHC14	NM_015144	cg05783134F	Body	cg05783134
EXT1	NM_000127	cg05783185F cg05783844F	Body	cg05783185 cg05783844
KSR1	NM_014238	cg05784862R	TSS200	cg05784862
MSX1;MSX1	NM_002448;NM_002448	cg05790982R	5'UTR;1stExon	cg05790982
C7orf57	NM_001100159	cg05792786F	TSS1500	cg05792786
ABTB2	NM_145804	cg05792856R	TSS1500	cg05792856
KCNK15	NM_022358	cg05793020F	Body	cg05793020
GALNT7	NM_017423	cg05795861R	Body	cg05795861
MIR1910;C16orf74	NR_031731;NM_206967	cg05797594F	TSS1500;5'UTR	cg05797594
KPNA7	NM_001145715	cg05798194F	Body	cg05798194
ZBTB11;LOC100009676	NM_014415;NR_024407	cg05798637F	Body;TSS200	cg05798637
PLXNB2	NM_012401	cg05799169F	Body	cg05799169
MACF1	NM_012090	cg05800561R	Body	cg05800561
C7orf46;C7orf46;C7orf46	NM_199136;NM_001127364	cg05804949R	TSS200;TSS200;TSS200	cg05804949
TRAM1L1	NM_152402	cg05807991F	TSS200	cg05807991

GPR179	NM_001004334	cg05809758R	TSS1500	cg05809758
HCCA2	NM_053005	cg05809890F	Body	cg05809890
FGFR1;FGFR1;FGFR1;FG	NM_023110;NM_023111;NM_023112	cg05810369F	5'UTR;1stExon;1stExon;	cg05810369
MGC45800	NR_027107	cg05812452F	Body	cg05812452
SDK1	NM_152744	cg05812582F	Body	cg05812582
CLOCK	NM_004898	cg05826175R	Body	cg05826175
HDAC4	NM_006037	cg05827124R	Body	cg05827124
		cg05828992F		cg05828992
MAP2	NM_001039538	cg05829482R	TSS1500	cg05829482
		cg05831907F		cg05831907
NUDT6;NUDT6	NM_198041;NM_007083	cg05833629R	5'UTR;Body	cg05833629
ANTXR2	NM_058172	cg05834728R	3'UTR	cg05834728
ITGAD	NM_005353	cg05838289F	Body	cg05838289
		cg05844366F		cg05844366
IFT88;IFT88	NM_175605;NM_006531	cg05844409F	Body;Body	cg05844409
FAM115C;FAM115C;FAM	NM_001130025;NM_173678	cg05846642F	TSS200;TSS1500;TSS200	cg05846642
ADAM7	NM_003817	cg05847038F	Body	cg05847038
MSI2;MSI2	NM_138962;NM_170721	cg05853039F	Body;TSS200	cg05853039
SYNGAP1	NM_006772	cg05856036F	Body	cg05856036
		cg05859256F		cg05859256
DRG1;DRG1	NM_004147;NM_004147	cg05859845F	1stExon;5'UTR	cg05859845
ZP3;SRCRB4D	NM_007155;NM_080744	cg05862979F	5'UTR;Body	cg05862979
		cg05868562R		cg05868562
		cg05869491R		cg05869491
SIGLEC15;SIGLEC15	NM_213602;NM_213602	cg05869537F	5'UTR;1stExon	cg05869537
TPPP	NM_007030	cg05871207R	Body	cg05871207
TPSAB1	NM_003294	cg05873268R	TSS1500	cg05873268
		cg05873766R		cg05873766
MARCH7	NM_022826	cg05874913R	5'UTR	cg05874913
MCPH1	NM_024596	cg05876644F	Body	cg05876644
THOC4	NM_005782	cg05880217R	Body	cg05880217
		cg05880330F		cg05880330
		cg05882586F		cg05882586
FAM198A	NM_001129908	cg05883695R	TSS1500	cg05883695
		cg05884572R		cg05884572
SLC6A19	NM_001003841	cg05887366F	Body	cg05887366
		cg05887787F		cg05887787
CYT5B;CYT5B	NM_152904;NM_001033553	cg05888362R	Body;Body	cg05888362
		cg05891869F		cg05891869
OR1E2	NM_003554	cg05892146R	TSS200	cg05892146
ATP7A;PGAM4	NM_000052;NM_001029891	cg05892902R	5'UTR;1stExon	cg05892902
		cg05893674R		cg05893674
CNRIP1;CNRIP1	NM_001111101;NM_015463	cg05894910R	TSS200;TSS200	cg05894910
HNRNPUL1;HNRNPUL1	NM_144732;NM_007040	cg05896295R	3'UTR;3'UTR	cg05896295
ZNF862	NM_001099220	cg05897255F	TSS200	cg05897255
LATS2	NM_014572	cg05898123R	Body	cg05898123
FAM41C	NR_027055	cg05898754F	Body	cg05898754
MAML2	NM_032427	cg05900538F	Body	cg05900538
C5orf49	NM_001089584	cg05904966R	1stExon	cg05904966
DNPEP	NM_012100	cg05905184F	TSS200	cg05905184
DYDC2	NM_032372	cg05905523F	5'UTR	cg05905523
		cg05905568R		cg05905568
TMEM62	NM_024956	cg05906717R	Body	cg05906717
		cg05906769F		cg05906769

PMS2L11	NR_023383	cg05908242F	TSS1500	cg05908242
GALNTL1;GALNTL1	NM_020692;NM_001168368	cg05908587R	TSS1500;TSS1500	cg05908587
HSPB6;C19orf55	NM_144617;NM_001039887	cg05910615F	TSS1500;TSS200	cg05910615
MLLT10;MLLT10	NM_004641;NM_001009569	cg05913198F	TSS200;TSS1500	cg05913198
JAKMIP2	NM_014790	cg05914369F	5'UTR	cg05914369
SYNGR3	NM_004209	cg05915293F	Body	cg05915293
		cg05919456F		cg05919456
LHX9;LHX9	NM_020204;NM_001014434	cg05920909R	Body;Body	cg05920909
LIMD2	NM_030576	cg05921579R	Body	cg05921579
BRWD1;BRWD1;BRWD1	NM_033656;NM_001007246	cg05926606R	Body;Body;Body	cg05926606
CABYR;CABYR;CABYR;CABYR	NM_153769;NM_012189;NM_012189;NM_012189	cg05926667F	Body;3'UTR;Body;3'UTR	cg05926667
NLRP12;NLRP12;NLRP12	NM_144687;NM_033297;NM_033297	cg05927401R	Body;1stExon;5'UTR	cg05927401
ACADM;ACADM	NM_000016;NM_001127328	cg05928218F	TSS1500;TSS1500	cg05928218
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg05928369R	Body;Body;Body	cg05928369
DIS3L;DIS3L	NM_001143688;NM_133375	cg05929132F	1stExon;5'UTR	cg05929132
		cg05929553F		cg05929553
		cg05929700R		cg05929700
SLN	NM_003063	cg05929864F	TSS1500	cg05929864
LOC100188947	NR_024467	cg05934333F	TSS1500	cg05934333
IL4I1;IL4I1	NM_152899;NM_172374	cg05934682F	Body;Body	cg05934682
FMNL2	NM_052905	cg05935184R	Body	cg05935184
SKI	NM_003036	cg05937603R	Body	cg05937603
		cg05938624R		cg05938624
MYO10	NM_012334	cg05938628F	TSS200	cg05938628
SSX2IP;SSX2IP;SSX2IP;SSX2IP	NM_001166295;NM_001166	cg05938683F	TSS200;5'UTR;1stExon;	cg05938683
		cg05941299R		cg05941299
		cg05941856R		cg05941856
		cg05942558F		cg05942558
NFATC1;NFATC1;NFATC1	NM_006162;NM_172388;NM_172388	cg05944967F	Body;5'UTR;Body;Body	cg05944967
		cg05945726R		cg05945726
		cg05945844F		cg05945844
PDLIM5;PDLIM5;PDLIM5	NR_024179;NM_001011515;	cg05945869F	Body;Body;Body;Body;	cg05945869
EEF2;SNORD37	NM_001961;NR_002602	cg05948856R	Body;TSS1500	cg05948856
		cg05949576R		cg05949576
ACAD8	NM_014384	cg05949667F	Body	cg05949667
		cg05949913F		cg05949913
IKBIP;APAF1;IKBIP;APAF1	NM_201613;NM_181868;NM_181868	cg05955566R	Body;TSS1500;Body;TSS1500	cg05955566
FBXL19;ORAI3	NM_001099784;NM_152288	cg05958702R	3'UTR;TSS1500	cg05958702
HEYL	NM_014571	cg05959346R	Body	cg05959346
TRAF3IP3	NM_025228	cg05959508F	TSS200	cg05959508
HIST1H1T	NM_005323	cg05959834R	TSS200	cg05959834
GNAS;GNAS;GNAS;GNAS	NM_001077490;NM_000516	cg05960039F	3'UTR;TSS1500;Body;TSS1500	cg05960039
MYT1L	NM_015025	cg05960850F	5'UTR	cg05960850
		cg05961721R		cg05961721
DAP;DAP	NM_004394;NM_004394	cg05966498R	1stExon;5'UTR	cg05966498
C3orf52;MIR567	NM_024616;NR_030292	cg05966699R	Body;TSS1500	cg05966699
SMURF1;SMURF1;SMURF1	NM_181349;NM_181349;NM_181349	cg05967295F	1stExon;5'UTR;5'UTR;1stExon	cg05967295
C1orf14	NM_030933	cg05969496R	TSS1500	cg05969496
		cg05970577F		cg05970577
UBTD2	NM_152277	cg05970768R	Body	cg05970768
CHST15	NM_015892	cg05971678R	Body	cg05971678
TET3	NM_144993	cg05976228R	Body	cg05976228
NTN1	NM_004822	cg05976500F	Body	cg05976500
CBS	NM_000071	cg05976571R	Body	cg05976571

ROS1	NM_002944	cg05976623R	Body	cg05976623
ZNF204P;ZNF204P	NR_024553;NR_002722	cg05977558F	Body;Body	cg05977558
CUX2	NM_015267	cg05979433F	Body	cg05979433
		cg05980592F		cg05980592
		cg05980673R		cg05980673
GPSM3;NOTCH4	NM_022107;NM_004557	cg05982929F	TSS1500;Body	cg05982929
ACTG1	NM_001614	cg05984533F	5'UTR	cg05984533
GLDC	NM_000170	cg05986446R	Body	cg05986446
		cg05987172F		cg05987172
		cg05987389F		cg05987389
TNFAIP3	NM_006290	cg05987705R	3'UTR	cg05987705
CDKN1C;CDKN1C;CDKN	NM_001122630;NM_001122	cg05989775F	5'UTR;5'UTR;1stExon;1	cg05989775
		cg05990988F		cg05990988
MIR1826	NR_031727	cg05992347F	TSS1500	cg05992347
		cg05993665R		cg05993665
KLHL30	NM_198582	cg05995361R	Body	cg05995361
MUC6	NM_005961	cg05997730F	TSS200	cg05997730
		cg05998577F		cg05998577
PCNT	NM_006031	cg05998816F	Body	cg05998816
ATXN7;ATXN7	NM_000333;NM_001128149	cg05999010R	5'UTR;5'UTR	cg05999010
RPL3L	NM_005061	cg06001166R	Body	cg06001166
		cg06005911F		cg06005911
LIPT1;LIPT1;TSGA10;LIP	NM_145197;NM_145196;NM	cg06010111F	TSS1500;TSS1500;TSS2	cg06010111
		cg06010356F		cg06010356
GPR152	NM_206997	cg06012016F	1stExon	cg06012016
RAB40C	NM_021168	cg06013113R	3'UTR	cg06013113
GPSM3;NOTCH4	NM_022107;NM_004557	cg06016354R	TSS1500;Body	cg06016354
FZD8	NM_031866	cg06020238F	1stExon	cg06020238
ZFAND3	NM_021943	cg06021784R	Body	cg06021784
		cg06026136F		cg06026136
MEGF8	NM_001410	cg06029655R	3'UTR	cg06029655
ARL6IP1	NM_015161	cg06033407F	TSS1500	cg06033407
IKBKE	NM_014002	cg06034238R	TSS1500	cg06034238
DTWD1;DTWD1	NM_001144955;NM_020234	cg06034708F	Body;Body	cg06034708
BCAR1;BCAR1;BCAR1;B	NM_001170718;NM_001170	cg06034874F	Body;Body;Body;Body;B	cg06034874
		cg06038599F		cg06038599
SPN;SPN	NM_001030288;NM_003123	cg06038843R	TSS200;TSS1500	cg06038843
C20orf26;C20orf26;CRNK	NM_001167816;NM_015585	cg06039489F	TSS200;5'UTR;TSS1500	cg06039489
		cg06041852F		cg06041852
		cg06045121R		cg06045121
GNAS;GNAS;GNAS;GNA	NM_001077490;NM_000516	cg06047881F	3'UTR;TSS1500;Body;T	cg06047881
LOC284661	NR_027088	cg06052183R	TSS1500	cg06052183
		cg06055561F		cg06055561
		cg06055730R		cg06055730
		cg06058079F		cg06058079
F8;H2AFB1;F8A3;F8A1;F8	NM_000132;NM_001017990	cg06058235R	Body;1stExon;TSS1500;	cg06058235
CCDC78	NM_001031737	cg06060703R	Body	cg06060703
ATP4B	NM_000705	cg06064098F	Body	cg06064098
NAV2;NAV2;NAV2;NAV	NM_001111019;NM_001111	cg06068991F	3'UTR;3'UTR;3'UTR;3'U	cg06068991
MXI1;MXI1;MXI1	NM_130439;NM_001008541	cg06071730R	Body;Body;Body	cg06071730
		cg06073147R		cg06073147
NCALD;NCALD;NCALD;N	NM_001040629;NM_001040	cg06073550R	5'UTR;5'UTR;5'UTR;5'U	cg06073550
PABPN1L	NM_001080487	cg06076690F	TSS200	cg06076690
FLT4;FLT4	NM_002020;NM_182925	cg06077821R	Body;Body	cg06077821

MYO6	NM_004999	cg06078337R		cg06078337
C17orf48	NM_020233	cg06081869R	Body	cg06081869
		cg06082141R	5'UTR	cg06082141
		cg06082293F		cg06082293
ABHD12;PYGB	NM_015600;NM_002862	cg06082906R	Body;3'UTR	cg06082906
		cg06088619R		cg06088619
SLC27A3	NM_024330	cg06089988F	1stExon	cg06089988
SAP30	NM_003864	cg06090383F	1stExon	cg06090383
		cg06091086R		cg06091086
		cg06092573F		cg06092573
WBP4	NM_007187	cg06096994R	TSS200	cg06096994
FYTTD1;KIAA0226;FYTTNM_001011537;NM_001145		cg06097557F	TSS1500;5'UTR;TSS1500	cg06097557
		cg06097772F		cg06097772
NCOA4;NCOA4;NCOA4;NM_005437;NM_001145263		cg06098215R	5'UTR;5'UTR;Body;TSS	cg06098215
CBLN1	NM_004352	cg06099276F	TSS200	cg06099276
FAM131B;FAM131B	NM_014690;NM_001031690	cg06100147R	TSS200;Body	cg06100147
GRINA;GRINA	NM_000837;NM_001009184	cg06101723F	Body;Body	cg06101723
MGRN1;MGRN1;MGRN1;NM_001142290;NM_001142		cg06102153F	5'UTR;1stExon;5'UTR;5'	cg06102153
CCDC149	NM_173463	cg06102690R	TSS200	cg06102690
		cg06104914R		cg06104914
DNA2	NM_001080449	cg06107304F	Body	cg06107304
CEP63;ANAPC13;CEP63;NM_001042400;NR_024400;		cg06109529R	5'UTR;TSS1500;5'UTR;	cg06109529
SDK1	NM_152744	cg06110701R	Body	cg06110701
DUSP5	NM_004419	cg06110816R	TSS1500	cg06110816
		cg06112082F		cg06112082
RASSF1;RASSF1;RASSF1NM_170713;NM_170712;NM_		cg06117233R	TSS1500;1stExon;Body;	cg06117233
LGALS8;LGALS8;LGALSNM_201544;NM_006499;NM_		cg06118122F	Body;Body;Body;Body	cg06118122
ACVR2B	NM_001106	cg06120492R	3'UTR	cg06120492
PTPRJ;PTPRJ	NM_001098503;NM_002843	cg06123714F	TSS1500;TSS1500	cg06123714
RNF125	NM_017831	cg06123940F	TSS1500	cg06123940
WEE1;WEE1	NM_001143976;NM_003390	cg06127316R	Body;Body	cg06127316
MUC6	NM_005961	cg06130072F	TSS200	cg06130072
TUBGCP2;ZNF511	NM_006659;NM_145806	cg06130365R	5'UTR;TSS1500	cg06130365
		cg06133670F		cg06133670
UNKL	NM_001037125	cg06135032F	Body	cg06135032
		cg06137086F		cg06137086
MCM2	NM_004526	cg06138505F	TSS200	cg06138505
		cg06138526R		cg06138526
SPI1;SPI1;SPI1;SPI1	NM_001080547;NM_003120	cg06147863R	5'UTR;5'UTR;1stExon;1st	cg06147863
RGPD3;RGPD3	NM_001144013;NM_001144	cg06148997F	1stExon;5'UTR	cg06148997
SLAIN2	NM_020846	cg06151145F	Body	cg06151145
		cg06151505R		cg06151505
		cg06153623R		cg06153623
		cg06155303R		cg06155303
MTG1	NM_138384	cg06155833F	Body	cg06155833
RUNX3	NM_001031680	cg06156260F	TSS1500	cg06156260
APBB1IP	NM_019043	cg06157318F	TSS200	cg06157318
		cg06158111R		cg06158111
DMRTA2	NM_032110	cg06159394F	5'UTR	cg06159394
H2AFX	NM_002105	cg06159435R	TSS200	cg06159435
KCNQ1;KCNQ1	NM_181798;NM_000218	cg06159548F	TSS1500;Body	cg06159548
MIRLET7I;C12orf61;C12o	NR_029661;NM_175895;NM_	cg06162516R	TSS1500;3'UTR;1stExon	cg06162516
SLC5A8	NM_145913	cg06162589R	3'UTR	cg06162589
		cg06168950F		cg06168950

CDH15	NM_004933	cg06170283F	Body	cg06170283
DCBLD1	NM_173674	cg06172859R	Body	cg06172859
BANP;BANP	NM_017869;NM_079837	cg06173520R cg06174704F	Body;Body	cg06173520 cg06174704
VDAC3;VDAC3	NM_005662;NM_001135694	cg06175578F	TSS200;TSS200	cg06175578
ATP1B1;ATP1B1	NM_001001787;NM_001677	cg06176471F	Body;Body	cg06176471
APITD1;APITD1;APITD1	NM_199294;NM_198544;NM_198544	cg06176944F	Body;Body;Body	cg06176944
ACTN2	NM_001103	cg06177278F	TSS1500	cg06177278
TCEA3;TCEA3	NM_003196;NM_003196	cg06177627R	1stExon;5'UTR	cg06177627
SYTL2	NM_032943	cg06177974F	TSS200	cg06177974
CCDC7;CCDC7	NM_145023;NM_001026383	cg06180519R cg06182064R cg06185789R cg06192592F	Body;Body	cg06180519 cg06182064 cg06185789 cg06192592
C2orf27B	NM_214461	cg06193286R	TSS1500	cg06193286
RHBDF1	NM_022450	cg06194960F cg06197774F	Body	cg06194960 cg06197774
AHDC1	NM_001029882	cg06198312R	5'UTR	cg06198312
CCDC88B	NM_032251	cg06202053R cg06202585F	Body	cg06202053 cg06202585
COL11A2;COL11A2;COL11A2	NM_080679;NM_001163771	cg06205432R cg06206793R	TSS1500;TSS1500;TSS1500	cg06205432 cg06206793
AK3	NM_016282	cg06207460R	1stExon	cg06207460
SLC25A26;SLC25A26;SLC25A26	NM_173471;NR_028475;NM_173471	cg06211456R	Body;Body;Body	cg06211456
MEST;MEST;MEST;MEST	NM_177524;NM_002402;NM_177524	cg06212135R cg06213233F cg06213807R	5'UTR;TSS200;5'UTR;TSS200	cg06212135 cg06213233 cg06213807
MAPK8IP3;MAPK8IP3	NM_015133;NM_001040439	cg06215939R cg06216009R cg06216650F	TSS1500;TSS1500	cg06215939 cg06216009 cg06216650
NTM;NTM;NTM;NTM	NM_001144059;NM_001048	cg06217320R	Body;Body;Body;Body	cg06217320
TXNL4B;TXNL4B;TXNL4B	NM_001142317;NM_001142	cg06220640F	Body;Body;Body	cg06220640
SNX8	NM_013321	cg06221470R	Body	cg06221470
CAV1	NM_001753	cg06225476F	Body	cg06225476
LIPK	NM_001080518	cg06225999F cg06233135F cg06235246R	Body	cg06225999 cg06233135 cg06235246
ITGAL;ITGAL	NM_002209;NM_001114380	cg06235438F	Body;Body	cg06235438
SLC6A16	NM_014037	cg06237487F	TSS200	cg06237487
MIR365-2	NR_029856	cg06237697R	TSS200	cg06237697
PAIP2B	NM_020459	cg06241044F	5'UTR	cg06241044
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg06242102R cg06243722R	Body;Body;Body	cg06242102 cg06243722
SNORD115-6	NR_003298	cg06243989R	TSS200	cg06243989
ACSF3;ACSF3;ACSF3	NM_174917;NR_023316;NM_174917	cg06245181F cg06247666R cg06249421F cg06251420R	Body;Body;Body	cg06245181 cg06247666 cg06249421 cg06251420
PSMC2	NM_002803	cg06251958R	Body	cg06251958
SNORA20;TCP1;TCP1	NR_002960;NM_030752;NM_030752	cg06253862R	Body;Body;Body	cg06253862
ZNF117;ZNF117	NM_015852;NM_015852	cg06254253F	1stExon;5'UTR	cg06254253
GAGE5;GAGE12I;GAGE7	NM_001475;NM_001477;NM_001477	cg06256374R	5'UTR;5'UTR;5'UTR;Body	cg06256374
TMEM132A;TMEM132A	NM_017870;NM_178031	cg06257669F cg06257983R	Body;Body	cg06257669 cg06257983

PPT2;PPT2	NM_138717;NM_005155	cg06264679R	Body;TSS200	cg06264679
CYP1B1	NM_000104	cg06264984F	Body	cg06264984
TMCO7	NM_024562	cg06267075R	Body	cg06267075
WNT9A	NM_003395	cg06268632R	Body	cg06268632
MYO1E;MYO1E	NM_004998;NM_004998	cg06273763R	5'UTR;1stExon	cg06273763
		cg06276864R		cg06276864
LOC100128542	NM_001162367	cg06276978F	Body	cg06276978
HERC2P4	NR_002827	cg06280271F	TSS1500	cg06280271
PRKD2;PRKD2;PRKD2;PRNM_001079880;NM_001079		cg06280512R	Body;5'UTR;Body;Body	cg06280512
EPS8L3;EPS8L3;EPS8L3	NM_024526;NM_139053;NM_024526	cg06281016R	TSS1500;TSS1500;TSS1500	cg06281016
KCNQ1DN	NR_024627	cg06281297R	TSS1500	cg06281297
		cg06282802F		cg06282802
SORCS2	NM_020777	cg06283478R	Body	cg06283478
CRIP2	NM_001312	cg06285241R	Body	cg06285241
TESC;TESC;TESC	NR_031766;NM_017899;NM_017899	cg06285921F	Body;Body;Body	cg06285921
GRK4;GRK4;GRK4	NM_001004057;NM_182982	cg06286026F	Body;Body;Body	cg06286026
SPOP;SPOP;SPOP;SPOP;SNM_001007226;NM_001007		cg06291334F	TSS1500;TSS1500;TSS1500	cg06291334
C2orf81;C2orf81	NM_001145054;NM_001145	cg06292864F	1stExon;5'UTR	cg06292864
PLEKHG4;PLEKHG4;PLENM_001129731;NM_015432		cg06297958F	TSS1500;1stExon;5'UTR	cg06297958
ATP11C;ATP11C	NM_173694;NM_001010986	cg06298190R	Body;Body	cg06298190
ZNF816A	NM_001031665	cg06305048R	TSS200	cg06305048
PSMD2	NM_002808	cg06306006F	Body	cg06306006
PDCD5	NM_004708	cg06310844F	Body	cg06310844
		cg06311879F		cg06311879
		cg06312797F		cg06312797
		cg06314333R		cg06314333
		cg06316897F		cg06316897
ARID5B	NM_032199	cg06318796R	Body	cg06318796
		cg06319475F		cg06319475
		cg06319785R		cg06319785
		cg06321336F		cg06321336
USP6	NM_004505	cg06325889F	Body	cg06325889
C7orf53;C7orf53	NM_182597;NM_182597	cg06327814R	5'UTR;5'UTR	cg06327814
TBC1D22A	NM_014346	cg06332964R	Body	cg06332964
SCGB2A1;SCGB2A1	NM_002407;NM_002407	cg06334737F	1stExon;5'UTR	cg06334737
ZNF467	NM_207336	cg06335597F	3'UTR	cg06335597
KRT14	NM_000526	cg06339505F	Body	cg06339505
INHBB	NM_002193	cg06342317F	Body	cg06342317
LUC7L;LUC7L	NM_018032;NM_201412	cg06348427F	3'UTR;Body	cg06348427
HPCAL1;HPCAL1	NM_134421;NM_002149	cg06349981R	TSS200;5'UTR	cg06349981
PLCH2	NM_014638	cg06350196R	Body	cg06350196
		cg06351029R		cg06351029
FAM76A;FAM76A;FAM7	NM_001143915;NM_001143	cg06352483R	1stExon;5'UTR;1stExon;	cg06352483
DCBLD2	NM_080927	cg06352873F	Body	cg06352873
ISM1	NM_080826	cg06355010R	1stExon	cg06355010
		cg06355908R		cg06355908
		cg06360875R		cg06360875
		cg06361238F		cg06361238
		cg06361278R		cg06361278
		cg06362048F		cg06362048
		cg06362966R		cg06362966
BCL2L11;BCL2L11	NM_006538;NM_138621	cg06363163R	Body;Body	cg06363163
RING1;MIR219-1	NM_002931;NR_029633	cg06363559F	TSS1500;TSS1500	cg06363559
		cg06363865R		cg06363865

POFUT1;POFUT1	NM_015352;NM_172236	cg06364593R		cg06364593
RORA	NM_134261	cg06365177R	Body;Body	cg06365177
GYG1	NM_004130	cg06367149F	Body	cg06367149
		cg06368369F	TSS200	cg06368369
		cg06368618F		cg06368618
SLC35F3	NM_173508	cg06369407F	Body	cg06369407
BRUNOL4;BRUNOL4;BRUNOL4	NM_001025088;NM_020180	cg06370528R	Body;Body;Body;Body	cg06370528
EYS	NM_001142800	cg06370886F	Body	cg06370886
		cg06371291R		cg06371291
CASR	NM_000388	cg06371443R	5'UTR	cg06371443
C10orf54;CDH23	NM_022153;NM_022124	cg06372475R	TSS1500;Body	cg06372475
OSBPL3;OSBPL3;OSBPL3	NM_015550;NM_145322;NM_015550	cg06372779F	5'UTR;5'UTR;5'UTR;5'UTR	cg06372779
CDC20	NM_001255	cg06373377R	Body	cg06373377
CNOT6L	NM_144571	cg06375876F	3'UTR	cg06375876
ISL2	NM_145805	cg06375967F	Body	cg06375967
IFIT5	NM_012420	cg06376949R	TSS1500	cg06376949
ATAD3B	NM_031921	cg06377929F	TSS200	cg06377929
INPP5A	NM_005539	cg06381135R	Body	cg06381135
A4GALT	NM_017436	cg06381725F	Body	cg06381725
IQSEC1;IQSEC1	NM_001134382;NM_014869	cg06397381R	Body;Body	cg06397381
MLLT10;MLLT10	NM_004641;NM_001009569	cg06398735F	TSS200;TSS1500	cg06398735
C21orf90;C21orf29;C21orf90	NR_026547;NM_144991;NR_026547	cg06399419F	Body;Body;Body	cg06399419
FOLR1;FOLR1;FOLR1;FONM_000802;NM_016724;NM_016724	NR_026547;NM_144991;NR_026547	cg06400204R	5'UTR;5'UTR;5'UTR;TS	cg06400204
OR2J3	NM_001005216	cg06404832R	1stExon	cg06404832
AXIN2	NM_004655	cg06405341F	Body	cg06405341
		cg06405563F		cg06405563
QSER1	NM_001076786	cg06405640R	3'UTR	cg06405640
GART;SON;GART;GART;NM_001136005;NM_138927	NM_001136005;NM_138927	cg06406294R	1stExon;TSS200;TSS1500	cg06406294
MC3R	NM_019888	cg06407053R	TSS1500	cg06407053
		cg06408912R		cg06408912
LVRN	NM_173800	cg06410191R	1stExon	cg06410191
NKAIN3	NM_173688	cg06410746F	1stExon	cg06410746
NEBL	NM_213569	cg06411879F	Body	cg06411879
ZNF701	NM_018260	cg06412465F	Body	cg06412465
RPTOR;RPTOR	NM_001163034;NM_020761	cg06418238R	Body;Body	cg06418238
		cg06419093R		cg06419093
ZEB1;ZEB1;ZEB1;ZEB1;ZNM_001128128;NM_001128128	ZNM_001128128;NM_001128128	cg06422108F	1stExon;5'UTR;Body;Body	cg06422108
GIMAP8	NM_175571	cg06422678F	TSS200	cg06422678
CAMK1D;CAMK1D	NM_020397;NM_153498	cg06424550R	Body;Body	cg06424550
NAP1L4	NM_005969	cg06427502R	5'UTR	cg06427502
		cg06430746R		cg06430746
ISPD;ISPD	NM_001101426;NM_001101426	cg06436658R	Body;Body	cg06436658
		cg06437256R		cg06437256
AK2;AK2;AK2;AK2	NM_001625;NM_013411;NM_001625	cg06438056F	1stExon;1st exon;5'UTR;	cg06438056
ZNF468;ZNF468	NM_199132;NM_001008801	cg06439370F	5'UTR;5'UTR	cg06439370
		cg06440169F		cg06440169
MYOM2	NM_003970	cg06440275R	Body	cg06440275
TTL10;TTL10	NM_153254;NM_001130045	cg06440474F	Body;Body	cg06440474
SLC26A7;SLC26A7	NM_052832;NM_134266	cg06442162R	Body;3'UTR	cg06442162
		cg06450446R		cg06450446
MRI1;MRI1	NM_001031727;NM_032285	cg06452642F	Body;Body	cg06452642
NRBP2	NM_178564	cg06454592F	5'UTR	cg06454592
BCL3	NM_005178	cg06455032R	TSS200	cg06455032
MAML3	NM_018717	cg06456255R	Body	cg06456255



RPS7	NM_001011	cg06458698R cg06466757F	Body	cg06458698 cg06466757
MYH11;MYH11;NDE1;NDNM_022844;NM_002474;NM_06467587F		cg06467587F	Body;Body;Body;Body;Body;Body	cg06467587
C21orf58;PCNT	NM_058180;NM_006031	cg06468476F	TSS1500;Body	cg06468476
RPTOR;RPTOR	NM_001163034;NM_020761	cg06469955R	Body;Body	cg06469955
FAM20C	NM_020223	cg06471548F	TSS1500	cg06471548
HDAC1	NM_004964	cg06473843F	TSS200	cg06473843
CMIP;CMIP	NM_030629;NM_198390	cg06473941R	Body;Body	cg06473941
SNORD116-2;SNORD116-NR_003317;NR_003321		cg06474427R	TSS200;TSS200	cg06474427
TBCD	NM_005993	cg06476926R	Body	cg06476926
HDDC3;UNC45A;UNC45ANM_198527;NM_001039675		cg06480138R cg06480171F cg06481462F cg06485995F	TSS1500;5'UTR;TSS1500	cg06480138 cg06480171 cg06481462 cg06485995
NKG7	NM_005601	cg06486093R	TSS200	cg06486093
GH1;GH1;GH1;GH1;GH1; NM_022559;NM_000515;NM_06486581R		cg06486582R cg06486618F	5'UTR;1stExon;5'UTR;1stExon	cg06486581 cg06486582 cg06486618
CROCC	NM_014675	cg06488081F cg06491147R	TSS200	cg06488081 cg06491147
C2;C2	NM_000063;NM_001145903	cg06491405F cg06493846F	TSS200;TSS200	cg06491405 cg06493846
LOC285780	NR_026970	cg06501113F cg06508085F cg06510234F	Body	cg06501113 cg06508085 cg06510234
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg06510621F	Body;Body	cg06510621
PIP4K2A	NM_005028	cg06511701R	Body	cg06511701
ADCY2	NM_020546	cg06512271F cg06515328R	TSS1500	cg06512271 cg06515328
COL23A1	NM_173465	cg06515418R	Body	cg06515418
NRTN	NM_004558	cg06515543F	TSS200	cg06515543
PLAC9;PLAC9	NM_001012973;NM_001012	cg06516328R	5'UTR;1stExon	cg06516328
ARHGAP8;PRR5-ARHGA NM_001017526;NM_181334		cg06516947R cg06517813R cg06526042R cg06526761F	TSS1500;Body;TSS1500	cg06516947 cg06517813 cg06526042 cg06526761
KIAA1841;KIAA1841;KIANM_032506;NM_001129993		cg06528150F	5'UTR;5'UTR;1stExon	cg06528150
LOC100132215	NR_027069	cg06528559F cg06528584F	TSS1500	cg06528559 cg06528584
GJA8	NM_005267	cg06531250R	Body	cg06531250
WIPI1	NM_017983	cg06533196R cg06535952R	Body	cg06533196 cg06535952
APBB1IP	NM_019043	cg06535993F cg06536806F	TSS200	cg06535993 cg06536806
COX4I2	NM_032609	cg06538141F	Body	cg06538141
ABLIM1;ABLIM1;ABLIMNM_001003408;NM_001003		cg06539091R	Body;Body;Body	cg06539091
CCDC33	NM_025055	cg06541093R	Body	cg06541093
TSNARE1	NM_145003	cg06541938R cg06542022R	5'UTR	cg06541938 cg06542022
SDK1;SDK1	NR_027816;NM_152744	cg06542140F cg06542302F cg06542429R	Body;Body	cg06542140 cg06542302 cg06542429
KCNK16;KCNK16;KCNK NM_001135107;NM_001135		cg06543101R cg06545330F	TSS200;TSS200;TSS200	cg06543101 cg06545330

LRRN3;LRRN3;IMMP2L;LNM_001099660;NM_018334	cg06545367F	5'UTR;1stExon;Body;5'U	cg06545367
CES1;CES1;CES1	NM_001266;NM_001025194	cg06549901R	Body;Body;Body
CLPTMIL	NM_030782	cg06550200R	Body
PTF1A	NM_178161	cg06550984R	TSS1500
		cg06551007R	cg06551007
PTPN12;PTPN12;PTPN12	NM_002835;NM_001131009	cg06551493R	TSS200;TSS1500;TSS1500
MKNK2;MKNK2	NM_199054;NM_017572	cg06552549F	TSS200;TSS200
		cg06552810F	cg06552810
		cg06553058F	cg06553058
RHOT2	NM_138769	cg06553210R	Body
		cg06554090R	cg06554090
		cg06556435R	cg06556435
METT10D	NM_024086	cg06557127R	Body
		cg06557630F	cg06557630
		cg06563450R	cg06563450
OR13C3	NM_001001961	cg06565452R	TSS1500
PDP1;PDP1;PDP1;PDP1;PDP1	NM_001161779;NM_001161	cg06567195F	3'UTR;3'UTR;3'UTR;3'UTR
SMG6;SMG6	NM_017575;NM_001170957	cg06568880R	Body;Body
SBNO2;SBNO2	NM_014963;NM_001100122	cg06572563R	Body;TSS1500
		cg06573096F	cg06573096
DLGAP2	NM_004745	cg06577028R	Body
ITGB3	NM_000212	cg06577593R	TSS200
MYH14;MYH14;MYH14	NM_001145809;NM_001077	cg06579024R	Body;Body;Body
MYO1C;MYO1C;MYO1C	NM_001080779;NM_033375	cg06579248F	Body;Body;Body
CEACAM20;CEACAM20;	NM_001102597;NM_0011102	cg06581818F	Body;Body;Body;Body
AGAP1;AGAP1	NM_014914;NM_001037131	cg06583873R	Body;Body
MIR149;PP14571;GPC1	NR_029702;NR_024014;NM_001037131	cg06591185R	TSS200;Body;Body
KLHL14	NM_020805	cg06591973R	TSS1500
SLC12A7	NM_006598	cg06592065F	Body
EPPK1	NM_031308	cg06592260R	1stExon
TMEM175	NM_032326	cg06595176F	Body
OR11H4	NM_001004479	cg06597038R	TSS1500
		cg06598386R	cg06598386
HAP1;HAP1;HAP1	NM_001079870;NM_177977	cg06603325F	Body;Body;Body
FOXN3;FOXN3	NM_005197;NM_001085471	cg06603377F	Body;Body
RTN3;RTN3;RTN3;RTN3;	NM_201430;NM_006054;NM_006054	cg06604058R	1stExon;1stExon;1stExon
		cg06606511F	cg06606511
		cg06609415F	cg06609415
RASA1;RASA1	NM_002890;NM_022650	cg06610368F	1stExon;TSS1500
DPPA2	NM_138815	cg06611850F	TSS1500
SRCIN1	NM_025248	cg06615445R	Body
		cg06617834F	cg06617834
MALL	NM_005434	cg06621452F	Body
TYK2	NM_003331	cg06622468R	TSS1500
		cg06623017R	cg06623017
LOC100134868	NR_004846	cg06623259R	Body
UAP1	NM_003115	cg06623486R	5'UTR
SLC7A11	NM_014331	cg06623625R	Body
GOT2	NM_002080	cg06624121F	Body
MSLN;MSLN	NM_005823;NM_013404	cg06630425R	Body;Body
		cg06631222R	cg06631222
IGF2BP3	NM_006547	cg06632790F	Body
ANXA4	NM_001153	cg06635952F	Body
TMED5;TMED5;TMED5	NM_016040;NR_030761;NM_016040	cg06642228R	Body;Body;Body

SLC22A15	NM_018420	cg06642647F cg06646493F cg06646548R cg06647751F	TSS200	cg06642647 cg06646493 cg06646548 cg06647751
ACCN3;ACCN3;ACCN3	NM_020322;NM_020321;NM_020320	cg06648495R	1stExon;1stExon;1stExon	cg06648495
SIPA1	NM_006747	cg06649610F	TSS1500	cg06649610
NR0B2;NR0B2	NM_021969;NM_021969	cg06650260R	1stExon;5'UTR	cg06650260
SEMA6A	NM_020796	cg06650664R	5'UTR	cg06650664
C15orf40;C15orf40;C15orf40	NM_144597;NR_027650;NM_027650	cg06651054R	Body;Body;Body;Body;	cg06651054
P2RX5;P2RX5	NM_175080;NM_002561	cg06651752F	Body;Body	cg06651752
LRRC43;LRRC43	NM_152759;NM_001098519	cg06654865R	Body;Body	cg06654865
OTOP1	NM_177998	cg06658468R	TSS1500	cg06658468
S100A11	NM_005620	cg06659614R	TSS1500	cg06659614
NUCKS1	NM_022731	cg06665535R	TSS200	cg06665535
KLHL36	NM_024731	cg06666608F	Body	cg06666608
CCNC;CCNC	NM_005190;NM_001013399	cg06667091F	TSS1500;TSS1500	cg06667091
LPCAT1	NM_024830	cg06668922F cg06669226R	Body	cg06668922 cg06669226
SLC22A18;SLC22A18;SLC22A18	NM_183233;NM_002555;NM_002555	cg06669405F	Body;Body;TSS1500	cg06669405
ANKRD11	NM_013275	cg06669446F	5'UTR	cg06669446
PAX5	NM_016734	cg06671450R cg06683316R	Body	cg06671450 cg06683316
SFRS16	NM_007056	cg06684987F	Body	cg06684987
BLVRA	NM_000712	cg06685411R	Body	cg06685411
TSPYL3	NR_002781	cg06686029F cg06686106R	Body	cg06686029 cg06686106
KCNE1;KCNE1;KCNE1	NM_001127668;NM_000219	cg06689180R	5'UTR;5'UTR;5'UTR	cg06689180
JAKMIP3	NM_001105521	cg06691453F cg06691888F	Body	cg06691453 cg06691888
CA5A	NM_001739	cg06693575R cg06697175F	Body	cg06693575 cg06697175
GOT1L1	NM_152413	cg06698828R	TSS1500	cg06698828
ACADS	NM_000017	cg06698843F	Body	cg06698843
MTL5;MTL5;MTL5;MTL5	NM_004923;NM_001039656	cg06699275R	1stExon;1stExon;5'UTR;	cg06699275
EBF3	NM_001005463	cg06699461R	Body	cg06699461
SLC39A4;SLC39A4;SLC39A4	NM_130849;NM_017767;NM_017767	cg06700234R	5'UTR;TSS1500;1stExon;	cg06700234
PTPMT1;PTPMT1	NM_175732;NM_001143984	cg06700353F cg06700653F	Body;Body	cg06700353 cg06700653
GABRR1	NM_002042	cg06704469F	3'UTR	cg06704469
FBP1;FBP1	NM_001127628;NM_000507	cg06705237R	TSS200;TSS1500	cg06705237
SGTB	NM_019072	cg06708122R	Body	cg06708122
DBH	NM_000787	cg06708731F cg06710704F cg06712846F	TSS200	cg06708731 cg06710704 cg06712846
CASKIN1	NM_020764	cg06713550F	Body	cg06713550
KCNN1	NM_002248	cg06715661R	Body	cg06715661
PRKCZ;PRKCZ;PRKCZ	NM_001033582;NM_002744	cg06717814F	5'UTR;Body;5'UTR	cg06717814
LOC100101938	NR_027248	cg06722407R	Body	cg06722407
SNAP29;PI4KA	NM_004782;NM_058004	cg06723301R	1stExon;TSS1500	cg06723301
SRCAP	NM_006662	cg06727060R	TSS1500	cg06727060
KLF7	NM_003709	cg06728437R	TSS1500	cg06728437
SYT7	NM_004200	cg06729381F	Body	cg06729381
CSPG4	NM_001897	cg06734519F	Body	cg06734519
DSCAML1	NM_020693	cg06735285F	Body	cg06735285

PAPOLA	NM_032632	cg06737484R	Body	cg06737484
BTBD18	NM_001145101	cg06737912F	TSS200	cg06737912
POP4;POP4	NR_027368;NM_006627	cg06738169R	Body;Body	cg06738169
		cg06738709R		cg06738709
		cg06739505F		cg06739505
		cg06745229R		cg06745229
PROCA1	NM_152465	cg06745955F	Body	cg06745955
PTPN21	NM_007039	cg06746362R	Body	cg06746362
		cg06748060F		cg06748060
ANKRD55;ANKRD55	NM_001039935;NM_024669	cg06750410R	TSS200;Body	cg06750410
SMARCA4;SMARCA4;SMNM	001128846;NM_001128	cg06751603R	Body;Body;Body;Body;B	cg06751603
AAACL4	NM_001013630	cg06751920F	TSS1500	cg06751920
		cg06752618F		cg06752618
ADD2;ADD2;ADD2;ADD2	NM_017483;NM_017484;NM	cg06752779F	Body;Body;Body;Body;B	cg06752779
EIF2AK4	NM_001013703	cg06753055R	Body	cg06753055
DPPA3	NM_199286	cg06761873R	Body	cg06761873
ACN9	NM_020186	cg06762532R	Body	cg06762532
ERICH1	NM_207332	cg06765219R	Body	cg06765219
CLEC18C	NM_173619	cg06765324F	TSS200	cg06765324
		cg06768670R		cg06768670
		cg06772742R		cg06772742
		cg06777796F		cg06777796
		cg06778713F		cg06778713
HAGH;HAGH;FAHD1;HANM	005326;NM_001040427	cg06782493F	5'UTR;5'UTR;TSS1500;	cg06782493
ANKRD53;ANKRD53	NM_001115116;NM_024933	cg06783668R	TSS1500;TSS1500	cg06783668
CYP2W1	NM_017781	cg06783955F	TSS1500	cg06783955
		cg06784187F		cg06784187
MKRN1;MKRN1	NM_013446;NM_001145125	cg06784339R	1stExon;1stExon	cg06784339
		cg06784691F		cg06784691
FAM188B	NM_032222	cg06786000F	Body	cg06786000
TBC1D2B;TBC1D2B	NM_144572;NM_015079	cg06786153R	Body;Body	cg06786153
PPIE;PPIE;PPIE	NM_203457;NM_203456;NM	cg06790069F	TSS1500;TSS1500;TSS1	cg06790069
TSPAN18	NM_130783	cg06791867R	5'UTR	cg06791867
TSPAN15	NM_012339	cg06791973R	Body	cg06791973
		cg06794244F		cg06794244
		cg06794612R		cg06794612
CSH2;CSH2;CSH2	NM_022645;NM_020991;NM	cg06799790R	TSS1500;TSS1500;TSS1	cg06799790
RNF222	NM_001146684	cg06804311R	Body	cg06804311
CACNA2D4	NM_172364	cg06807030F	Body	cg06807030
C6orf106;C6orf106	NM_024294;NM_022758	cg06810293R	Body;Body	cg06810293
SPEN	NM_015001	cg06813597F	Body	cg06813597
PLEKHG5;PLEKHG5;PLEN	001042664;NM_001042	cg06816518R	Body;Body;Body;Body;B	cg06816518
GCNT3	NM_004751	cg06817269F	5'UTR	cg06817269
RMST	NR_024037	cg06818217R	Body	cg06818217
TNXB;TNXA	NM_032470;NR_001284	cg06819251R	Body;Body	cg06819251
SNORD115-15;SNORD115	NR_003307;NR_003313;NR	cg06819813R	Body;Body;TSS1500	cg06819813
SNRPB2;SNRPB2;SNRPB	NM_198220;NM_198220;NM	cg06821919R	5'UTR;1stExon;5'UTR;1	cg06821919
RBPMS;RBPMS;RBPMS;	NM_001008712;NM_001008	cg06830145F	Body;Body;Body;Body	cg06830145
MRPL15	NM_014175	cg06834705F	Body	cg06834705
GSTP1	NM_000852	cg06841499R	TSS1500	cg06841499
PAK2	NM_002577	cg06845634F	Body	cg06845634
		cg06848247F		cg06848247
LAMC1	NM_002293	cg06850099R	Body	cg06850099
		cg06850194F		cg06850194

KCNQ1;KCNQ1	NM_000218;NM_181798	cg06850509R cg06850651F	Body;Body	cg06850509 cg06850651
LOC388946	NM_001145051	cg06851844R	Body	cg06851844
ZNF257	NM_033468	cg06852575R	Body	cg06852575
LIMCH1;LIMCH1;LIMCHNM	014988;NM_001112718	cg06854666F	Body;Body;Body	cg06854666
ICAM3	NM_002162	cg06855803F	TSS200	cg06855803
FADS3	NM_021727	cg06860612F	3'UTR	cg06860612
REM2	NM_173527	cg06864079F cg06865993F	TSS1500	cg06864079 cg06865993
ADAT2;PEX3	NM_182503;NM_003630	cg06866400R cg06867478F cg06867543F cg06867863R	TSS200;TSS200	cg06866400 cg06867478 cg06867543 cg06867863
FLJ45983;GATA3;GATA3NR	024256;NM_002051;NM	cg06870728R	Body;TSS1500;TSS1500	cg06870728
ANKRD30A	NM_052997	cg06872272F cg06873343F	TSS200	cg06872272 cg06873343
KCNJ16;KCNJ16;KCNJ16	NM_170741;NM_170742; NM	cg06874553R	5'UTR;TSS1500;5'UTR	cg06874553
FASN	NM_004104	cg06875616R	Body	cg06875616
C19orf48;C19orf48;C19orf	NM_199249;NM_199249;NM	cg06875740F cg06878108F	1stExon;5'UTR;1stExon;	cg06875740 cg06878108
VAR2;VAR2;VAR2	NM_020442;NM_001167733	cg06879746R cg06880028F	Body;Body;Body	cg06879746 cg06880028
AGAP5	NM_001144000	cg06884789R	Body	cg06884789
ZFP64;ZFP64;ZFP64;ZFP6	NM_199426;NM_018197;NM	cg06885652R	Body;Body;Body;Body	cg06885652
PRO1768;FOXN3	NR_024620;NM_001085471	cg06889165F cg06891939R cg06895436R	Body;5'UTR	cg06889165 cg06891939 cg06895436
SAMD12;SAMD12	NM_001101676;NM_207506	cg06895664R cg06895675F	Body;Body	cg06895664 cg06895675
LOC342346	NM_001145011	cg06897120F	Body	cg06897120
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM	cg06897306R cg06899483F cg06899791F	Body;Body;Body	cg06897306 cg06899483 cg06899791
SHROOM1	NM_133456	cg06900164R	Body	cg06900164
EPN3	NM_017957	cg06900494R cg06902368R	TSS1500	cg06900494 cg06902368
GLIS1	NM_147193	cg06905679F cg06907210F cg06908985F	Body	cg06905679 cg06907210 cg06908985
BAT2L2	NM_015172	cg06910994R cg06913079R	5'UTR	cg06910994 cg06913079
RDH14	NM_020905	cg06913287F	TSS200	cg06913287
RBMS1;RBMS1	NM_002897;NM_016836	cg06913345R cg06916514R	Body;Body	cg06913345 cg06916514
PHF1;PHF1;PHF1;PHF1;PH	NM_024165;NM_024165;NM	cg06919790F	1stExon;5'UTR;5'UTR;B	cg06919790
ATXN1;ATXN1	NM_001128164;NM_000332	cg06925530F	5'UTR;5'UTR	cg06925530
SHANK1	NM_016148	cg06930757F	Body	cg06930757
PLAT;PLAT	NM_000930;NM_033011	cg06931905F	Body;Body	cg06931905
QTRTD1;KIAA1407;KIAANM	024638;NM_020817;NM	cg06935184R cg06936108F	TSS200;5'UTR;1stExon	cg06935184 cg06936108
YAF2	NM_005748	cg06938101F	TSS1500	cg06938101
WDR45L	NM_019613	cg06938133F	Body	cg06938133
ZMYM2;ZMYM2	NM_003453;NM_197968	cg06938191F	5'UTR;5'UTR	cg06938191
YY2;MBTPS2	NM_206923;NM_015884	cg06938654R	1stExon;Body	cg06938654

SPSB1	NM_025106	cg06940688F cg06943197R	5'UTR	cg06940688 cg06943197
AKD1	NM_001145128	cg06944211F cg06948588F cg06949017R cg06949728F	Body	cg06944211 cg06948588 cg06949017 cg06949728
PIGG;PIGG	NM_017733;N I_001127178	cg06952190R cg06954679R	Body;Body	cg06952190 cg06954679
TAL1;TAL1	NM_003189;NM_003189	cg06955484R cg06959657F cg06963524F	5'UTR;1stExon	cg06955484 cg06959657 cg06963524
RASGRP3;RASGRP3 CACNA1B BRCA1;NBR2;BRCA1;BR	NM_001139488;NM_170672 NM_000718 NM_007300;NR_003108;NM	cg06971903F cg06972578R cg06973652R cg06977575F	5'UTR;5'UTR Body TSS1500;Body;TSS1500	cg06971903 cg06972578 cg06973652 cg06977575
KCNJ10	NM_002241	cg06978270R	5'UTR	cg06978270
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg06978336R	Body;Body	cg06978336
ARHGEF16	NM_014448	cg06980565F	5'UTR	cg06980565
SLC22A18;SLC22A18;SLC	NM_183233;NM_002555;NM	cg06981073F	Body;Body;TSS1500	cg06981073
BAIAP2L1	NM_018842	cg06981716R	TSS1500	cg06981716
BUB1;BUB1	NM_004336;NM_004336	cg06983551R	1stExon;5'UTR	cg06983551
FASLG	NM_000639	cg06983746F cg06984764F	TSS200	cg06983746 cg06984764
BSND;BSND	NM_057176;NM_057176	cg06985721F	1stExon;5'UTR	cg06985721
AACS	NM_023928	cg06987292F	Body	cg06987292
ACP6	NM_016361	cg06988368F cg06988547F	TSS200	cg06988368 cg06988547
LRP5	NM_002335	cg06989074R cg06989102R cg06993307R	Body	cg06989074 cg06989102 cg06993307
F2R	NM_001992	cg06994090R cg06995113R	TSS200	cg06994090 cg06995113
MYOT;MYOT	NM_006790;NM_001135940	cg06995966R	5'UTR;5'UTR	cg06995966
ZBTB17	NM_003443	cg06996372R	Body	cg06996372
PLEKHG3	NM_015549	cg06998038F	Body	cg06998038
TECPR2;CINP	NM_014844;NM_032630	cg07001734F	5'UTR;TSS1500	cg07001734
ADAMTS20	NM_025003	cg07005246F	Body	cg07005246
INTS1	NM_001080453	cg07005770F	Body	cg07005770
MIR940	NR_030636	cg07009125R cg07009570R	Body	cg07009125 cg07009570
SNORD113-1	NR_003229	cg07010373F	TSS200	cg07010373
PRDM9	NM_020227	cg07011961F	TSS200	cg07011961
CXCR1	NM_000634	cg07016356F	TSS1500	cg07016356
IFT140	NM_014714	cg07016549F	Body	cg07016549
SAR1A;SAR1A	NM_020150;NM_001142648	cg07017693R cg07018450F	Body;Body	cg07017693 cg07018450
SEPX1	NM_016332	cg07022554F cg07032256R cg07035442R cg07042346F	TSS200	cg07022554 cg07032256 cg07035442 cg07042346
ADAMTS12	NM_030955	cg07043044R	Body	cg07043044
CUGBP2;CUGBP2	NM_006561;NM_001025077	cg07043247F	Body;Body	cg07043247
BTBD11;BTBD11	NM_001017523;NM_001018	cg07048623R	Body;Body	cg07048623
ATP1A3	NM_152296	cg07051960R	TSS1500	cg07051960

IGSF9B	NM_014987	cg07052390R cg07054184F	TSS200	cg07052390 cg07054184
MIF;MIF	NM_002415;NM_002415	cg07059151F cg07061260F	1stExon;5'UTR	cg07059151 cg07061260
FLJ43390	NR_015358	cg07061975F	Body	cg07061975
MAPK8IP1	NM_005456	cg07065803F	Body	cg07065803
BRSK2	NM_003957	cg07067744R	Body	cg07067744
ABRA	NM_139166	cg07067773R	TSS1500	cg07067773
NRAS;CSDE1;CSDE1;CS	NM_002524;NM_001007553	cg07068998R	TSS200;3'UTR;3'UTR;3'	cg07068998
KCNQ1;KCNQ1OT1;KCN	NM_000218;NR_002728;NM	cg07072281R	Body;Body;Body	cg07072281
FLT4;FLT4	NM_002020;NM_182925	cg07072463R cg07075238F	Body;Body	cg07072463 cg07075238
UNKL	NM_001037125	cg07076076F	Body	cg07076076
NOL10	NM_024894	cg07080607F cg07081477F	3'UTR	cg07080607 cg07081477
TIPIN	NM_017858	cg07084801F cg07085310R	5'UTR	cg07084801 cg07085310
CHRNA3	NM_000749	cg07085664F cg07088555F cg07091207R	Body	cg07085664 cg07088555 cg07091207
PTPRH;PTPRH	NM_002842;NM_001161440	cg07097098F	TSS1500;TSS1500	cg07097098
PARK2;PARK2;PARK2	NM_004562;NM_013987;NM	cg07098722F	Body;Body;Body	cg07098722
CCDC40	NM_017950	cg07099767F	Body	cg07099767
FGF18	NM_003862	cg07100000F	Body	cg07100000
ZNF324	NM_014347	cg07100957R	Body	cg07100957
KIF17;KIF17	NM_001122819;NM_020816	cg07105891F cg07107427F cg07107824R	Body;Body	cg07105891 cg07107427 cg07107824
OSBPL3;OSBPL3;OSBPL	NM_015550;NM_145322;NM	cg07110009F cg07110854F	5'UTR;5'UTR;5'UTR;5'U	cg07110009 cg07110854
KCND3;KCND3	NM_172198;NM_004980	cg07111008F	Body;Body	cg07111008
GGT8P	NR_003503	cg07112173F	Body	cg07112173
RSU1;RSU1	NM_152724;NM_012425	cg07112562F	Body;Body	cg07112562
HSPA8;HSPA8	NM_153201;NM_006597	cg07115559R	TSS200;TSS200	cg07115559
ASPH;ASPH;ASPH;ASPH	NM_001164755;NM_004318	cg07118376F	Body;Body;Body;Body;	cg07118376
WHSC1	NM_001042424	cg07120806R	5'UTR	cg07120806
TTLL5	NM_015072	cg07123022R cg07124919R cg07126091F	Body	cg07123022 cg07124919 cg07126091
MAPK1IP1L	NM_144578	cg07127103R	TSS1500	cg07127103
MCM7;MCM7	NM_005916;NM_182776	cg07129731F	Body;Body	cg07129731
GATA2;GATA2;GATA2	NM_001145661;NM_032638	cg07132710R	Body;Body;Body	cg07132710
MGC26597	NR_027712	cg07136949F cg07137409R	Body	cg07136949 cg07137409
C8orf79;C8orf79	NM_020844;NM_001099677	cg07137416R	Body;5'UTR	cg07137416
ST3GAL2	NM_006927	cg07139162F	5'UTR	cg07139162
SEC14L5	NM_014692	cg07140894R	Body	cg07140894
LITAF;LITAF;LITAF;LIT	NR_024320;NM_004862;NM	cg07143635F	TSS200;TSS1500;TSS15	cg07143635
PMEPA1;PMEPA1;PMEP	NM_199169;NM_199170;NM	cg07143805F	TSS1500;TSS1500;TSS2	cg07143805
AANAT;AANAT	NM_001088;NM_001166579	cg07143841R	TSS200;Body	cg07143841
CD248	NM_020404	cg07145284R	TSS200	cg07145284
CYB561;CYB561;CYB561	NM_001017916;NM_001915	cg07145398R	5'UTR;5'UTR;1stExon	cg07145398
KIF7	NM_198525	cg07148452F cg07152894R	Body	cg07148452 cg07152894

		cg07156820R		cg07156820
ANKS1A;TAF11	NM_015245;NM_005643	cg07156929F	TSS200;TSS1500	cg07156929
MIR603;KIAA1217;KIAA	NR_030334;NM_019590;NM	cg07158816F	TSS1500;Body;Body;Bo	cg07158816
OR1C1	NM_012353	cg07159802F	1stExon	cg07159802
CBLN1	NM_004352	cg07159875F	Body	cg07159875
		cg07160246F		cg07160246
SCD	NM_005063	cg07161848F	3'UTR	cg07161848
FAM21B	NM_018232	cg07162498R	Body	cg07162498
C2orf54;C2orf54	NM_001085437;NM_024861	cg07167396F	Body;Body	cg07167396
ACVRL1;ACVRL1	NM_000020;NM_000020	cg07170824R	1stExon;5'UTR	cg07170824
PLEC1;PLEC1;PLEC1;PLEN	NM_201378;NM_201384;NM	cg07172676F	Body;Body;Body;Body;	cg07172676
TTLL10;TTLL10	NM_001130045;NM_153254	cg07173112F	Body;TSS1500	cg07173112
		cg07175090F		cg07175090
HMGXB4;HMGXB4	NR_027780;NM_001003681	cg07176064R	Body;3'UTR	cg07176064
		cg07177408F		cg07177408
CDH13	NM_001257	cg07179329F	Body	cg07179329
		cg07180182F		cg07180182
TMEM150A;TMEM150A;TNR	NR_033179;NM_001031738;	cg07181902F	TSS200;TSS200;TSS200	cg07181902
SLC35F3	NM_173508	cg07185425F	Body	cg07185425
KCNQ4;KCNQ4	NM_004700;NM_172163	cg07186730R	Body;Body	cg07186730
HERC3;NAP1L5	NM_014606;NM_153757	cg07189342R	Body;TSS1500	cg07189342
SPTB;SPTB	NM_000347;NM_001024858	cg07190885F	Body;Body	cg07190885
PGAP2;PGAP2;PGAP2;PGN	NM_001145438;NM_001145	cg07192240F	Body;Body;5'UTR;Body	cg07192240
		cg07197290F		cg07197290
COL24A1	NM_152890	cg07198150R	TSS1500	cg07198150
		cg07202320F		cg07202320
GOLGA7B	NM_001010917	cg07204937F	TSS200	cg07204937
DLGAP2	NM_004745	cg07205753F	Body	cg07205753
		cg07206442F		cg07206442
MICB	NM_005931	cg07207660F	3'UTR	cg07207660
ERCC4	NM_005236	cg07207682R	1stExon	cg07207682
		cg07208029F		cg07208029
CUX2	NM_015267	cg07208691R	Body	cg07208691
UBE4B;UBE4B	NM_006048;NM_001105562	cg07209987F	Body;Body	cg07209987
DTNB;DTNB;DTNB;DTNB	NM_183361;NM_033148;NM	cg07213684R	Body;Body;Body;Body;B	cg07213684
		cg07213830R		cg07213830
TULP4;TULP4	NM_020245;NM_001007466	cg07215697F	Body;Body	cg07215697
GSTO2	NM_183239	cg07217928F	TSS200	cg07217928
		cg07220897F		cg07220897
MSTO2P	NR_024117	cg07222421R	Body	cg07222421
		cg07226718R		cg07226718
		cg07227187F		cg07227187
MKLN1;MKLN1	NM_001145354;NM_013255	cg07227728R	Body;TSS200	cg07227728
		cg07234437F		cg07234437
GRB10;GRB10;GRB10;GRN	NM_001001550;NM_001001	cg07235057R	Body;Body;Body;Body	cg07235057
		cg07236798R		cg07236798
FA2H	NM_024306	cg07237906R	Body	cg07237906
LOC339535	NR_015407	cg07240877R	TSS200	cg07240877
		cg07241660R		cg07241660
KIAA0513	NM_014732	cg07244716R	3'UTR	cg07244716
		cg07245677R		cg07245677
FAM57B	NM_031478	cg07245700F	Body	cg07245700
		cg07246578F		cg07246578
TBX6	NM_004608	cg07249224F	Body	cg07249224



GFM2;GFM2;NSA2;GFM2NM_032380;NM_170691;NM_07252851R		cg07255158R	TSS200;TSS200;TSS200	cg07252851
GKN1	NM_019617	cg07258659R	TSS1500	cg07255158
BCR;BCR	NM_021574;NM_004327	cg07260820R	TSS1500;TSS1500	cg07258659
ZNF323;ZNF323;ZKSCANNM_001135215;NM_001135		cg07267166R	1stExon;5'UTR;5'UTR	cg07260820
RILPL1	NM_178314	cg07268090R	TSS1500	cg07267166
H1FNT	NM_181788	cg07274522R	1stExon	cg07268090
ARHGEF10	NM_014629	cg07274820F	Body	cg07274522
RPS6KA2;RPS6KA2	NM_021135;NM_001006932	cg07277190R	Body;Body	cg07274820
NCRNA00171	NR_026751	cg07278054F	Body	cg07277190
EPHB1	NM_004441	cg07279631F	TSS200	cg07278054
ISLR;ISLR	NM_201526;NM_005545	cg07281125R	Body;Body	cg07279631
ITGA7;ITGA7;ITGA7	NM_001144996;NM_001144	cg07281633R	Body;Body;Body;Body	cg07281125
HPSE2;HPSE2;HPSE2;HPSNM_001166244;NM_001166		cg07283098F	Body	cg07281633
LCT	NM_002299	cg07283795F	TSS200	cg07283098
ZNF322A;ZNF322A	NM_024639;NM_024639	cg07287949F	Body;Body	cg07283795
RANBP17	NM_022897	cg07297039F	Body;Body;Body	cg07287949
CASP8AP2;CASP8AP2;CANM_001137668;NM_012115		cg07297410R	Body;Body;Body;Body	cg07297039
ANKRD17;ANKRD17	NM_032217;NM_198889	cg07297777R	Body	cg07297410
STOML3;STOML3	NM_145286;NM_001144033	cg07305421F	Body;Body;Body;Body	cg07297777
CA5A	NM_001739	cg07305463F	Body	cg07305421
PSTK	NM_153336	cg07310946R	1stExon;5'UTR	cg07305463
NUMA1;LRTOMT;LRTO	NM_006185;NM_001145309	cg07312552R	Body	cg07310946
RANBP9	NM_005493	cg07314043F	Body	cg07312552
C16orf46;C16orf46	NM_001100873;NM_152337	cg07317705F	TSS1500;TSS1500;TSS1500	cg07314043
CDR2	NM_001802	cg07318088R	TSS200;TSS200	cg07317705
ATP11A;ATP11A	NM_015205;NM_032189	cg07318453F	Body;Body	cg07318088
CAMTA1	NM_015215	cg07325805F	Body;Body	cg07318453
EEF1E1;EEF1E1	NM_001135650;NM_004280	cg07327435R	TSS200;TSS200	cg07325805
CFI	NM_000204	cg07327927R	Body;Body	cg07327435
ATP11A;ATP11A	NM_015205;NM_032189	cg07329248R	3'UTR	cg07327927
HIP1R	NM_003959	cg0732967R	Body;Body	cg07329248
NMU	NM_006681	cg07329248R	Body	cg0732967
TNRC18	NM_001080495	cg07330075R	TSS1500	cg07329248
NOP16;HIGD2A	NM_016391;NM_138820	cg07332388R	5'UTR;TSS1500;TSS1500	cg07330075
LRR33	NM_198565	cg073332880F	Body	cg07332388
PCDH1	NM_032420	cg07333905R	5'UTR;5'UTR	cg07333288
CACNA1I;CACNA1I	NM_001003406;NM_021096	cg07334313F	Body	cg07333905
		cg07336426R	5'UTR;5'UTR	cg07334313
		cg07340241R	3'UTR	cg07336426
		cg07341813F	Body;Body	cg07340241
		cg07343790R	Body;Body	cg07341813
		cg07344096R	Body	cg07343790
		cg07345919R	TSS200;TSS200	cg07344096
		cg07347663F		cg07345919
		cg07348723R	3'UTR	cg07347663
		cg07352757R	Body;Body	cg07348723
		cg07353731R	Body	cg07352757
		cg07354556F	TSS200	cg07353731
		cg07355262R	3'UTR	cg07354556
		cg07355446F	TSS1500;3'UTR	cg07355262
		cg07363137R		cg07355446
		cg07364240R	3'UTR	cg07363137
		cg07366082F	3'UTR	cg07364240
		cg07367519R	Body;Body	cg07366082

TRERF1	NM_033502	cg07369260R	5'UTR	cg07369260
MAP3K14	NM_003954	cg07370464F	TSS200	cg07370464
C16orf35;C16orf35	NM_001039476;NM_001077	cg07371452R	Body;Body	cg07371452
PRKCZ;PRKCZ	NM_002744;NM_001033581	cg07375700F	Body;5'UTR	cg07375700
FIGNL2	NM_001013690	cg07375978R	1stExon	cg07375978
LRR7;PIN1L	NM_020794;NR_023916	cg07379293F	Body;Body	cg07379293
		cg07380384F		cg07380384
		cg07380882F		cg07380882
SSU72	NM_014188	cg07381470R	Body	cg07381470
CTF1;CTF1	NM_001330;NM_001142544	cg07385501F	3'UTR;3'UTR	cg07385501
NFYC;NFYC;NFYC;NFYCNM	NM_001142589;NM_014223	cg07387734R	Body;Body;Body;Body;	cg07387734
DIP2A;DIP2A;DIP2A;DIP	NM_001146114;NM_015151	cg07389144R	Body;Body;Body;3'UTR	cg07389144
		cg07389205F		cg07389205
FAM53C;FAM53C	NM_016605;NM_001135647	cg07389500R	Body;Body	cg07389500
SLC16A4	NM_004696	cg07389870R	Body	cg07389870
		cg07393546F		cg07393546
CMIP;CMIP	NM_030629;NM_198390	cg07393618R	Body;Body	cg07393618
LYPLAL1	NM_138794	cg07395436F	Body	cg07395436
NCOR2;NCOR2	NM_006312;NM_001077261	cg07398954R	Body;Body	cg07398954
BCL6	NM_001706	cg07403865F	5'UTR	cg07403865
HMGB1L1	NM_001008735	cg07404466R	TSS200	cg07404466
		cg07404527R		cg07404527
AGRN	NM_198576	cg07407159R	Body	cg07407159
EVX2	NM_001080458	cg07411620R	TSS200	cg07411620
		cg07415947R		cg07415947
KIAA0664	NM_015229	cg07416875F	Body	cg07416875
PCGF3	NM_006315	cg07416975F	TSS200	cg07416975
		cg07419921F		cg07419921
C1orf204	NM_001134233	cg07420416R	Body	cg07420416
COL19A1	NM_001858	cg07421341R	Body	cg07421341
ENAH;ENAH	NM_001008493;NM_018212	cg07421429F	Body;Body	cg07421429
DLGAP2	NM_004745	cg07422669F	Body	cg07422669
		cg07424132F		cg07424132
SPG7;SPG7	NM_003119;NM_199367	cg07426622F	Body;Body	cg07426622
COL23A1	NM_173465	cg07427642F	Body	cg07427642
LATS2	NM_014572	cg07430136F	Body	cg07430136
FRAT2	NM_012083	cg07431748R	TSS200	cg07431748
		cg07433154R		cg07433154
MEIS2;MEIS2;MEIS2;MEINM	NM_172315;NM_170674;NM_	cg07433663F	1stExon;Body;Body;5'UTR	cg07433663
C18orf1;C18orf1;C18orf1;CNM	NM_181483;NM_001003675	cg07433769F	TSS200;Body;Body;Bod	cg07433769
ZFH3;ZFH3	NM_001164766;NM_006885	cg07434438R	Body;Body	cg07434438
NEURL	NM_004210	cg07437066R	TSS200	cg07437066
		cg07437360R		cg07437360
CDCA3	NM_031299	cg07446572F	Body	cg07446572
SAMD4A;SAMD4A;SAMDNM	NM_001161577;NM_001161	cg07449447R	Body;Body;Body	cg07449447
		cg07450219F		cg07450219
C21orf66;C21orf66;C21orf	NM_013329;NR_027873;NM_	cg07450406F	TSS200;TSS200;TSS200	cg07450406
CDC20B;MIR449C;CDC20NM	NM_152623;NR_031572;NM_	cg07451859F	TSS200;TSS1500;TSS20	cg07451859
PLD2	NM_002663	cg07456314R	TSS1500	cg07456314
WDR45;WDR45	NM_007075;NM_001029896	cg07459438F	Body;Body	cg07459438
		cg07461370R		cg07461370
BRD4	NM_058243	cg07461795F	Body	cg07461795
EVI2A;NF1;NF1;EVI2A	NM_001003927;NM_001042	cg07462863F	3'UTR;Body;Body;3'UT	cg07462863
		cg07466230R		cg07466230

CMPK2	NM_207315	cg07466433R	1stExon	cg07466433
EEF1E1;SCARNA27;EEF1NM_004280;NR_003703;NMcg07466437R			Body;Body;Body	cg07466437
PLEKHO2	NM_025201	cg07467323F	TSS200	cg07467323
PPIB	NM_000942	cg07469594R	TSS1500	cg07469594
PACS2;PACS2	NM_015197;NM_001100913	cg07473223F	Body;Body	cg07473223
		cg07474271R		cg07474271
		cg07474852R		cg07474852
		cg07475117R		cg07475117
BMP6	NM_001718	cg07479491R	TSS1500	cg07479491
LPCAT1	NM_024830	cg07479711R	TSS1500	cg07479711
GAST	NM_000805	cg07480653F	TSS1500	cg07480653
FN3KRP	NM_024619	cg07480798F	TSS200	cg07480798
C14orf109;C14orf109	NM_001098621;NM_015676	cg07481273R	3'UTR;3'UTR	cg07481273
		cg07485769F		cg07485769
COX6B1	NM_001863	cg07488365R	TSS1500	cg07488365
GJB6;GJB6;GJB6;GJB6	NM_001110221;NM_001110	cg07489869R	TSS200;TSS200;TSS200	cg07489869
RASL11A	NM_206827	cg07495314F	Body	cg07495314
PDE1A;PDE1A	NM_005019;NM_001003683	cg07496624R	Body;Body	cg07496624
LOC282997;PDCD4;PDCDNR_026932;NM_014456;NMcg07496882F			TSS1500;TSS200;TSS200	cg07496882
		cg07497520R		cg07497520
OSM	NM_020530	cg07498879F	TSS1500	cg07498879
TAPBP;TAPBP;TAPBP	NM_172209;NM_003190;NMcg07500019R		Body;Body;Body	cg07500019
		cg07501233F		cg07501233
WIPF1;WIPF1	NM_003387;NM_001077269	cg07502208F	5'UTR;5'UTR	cg07502208
		cg07504581F		cg07504581
TERT;TERT	NM_198255;NM_198253	cg07507801F	Body;Body	cg07507801
		cg07510714F		cg07510714
		cg07511668R		cg07511668
DOCK6	NM_020812	cg07515196F	Body	cg07515196
		cg07517739F		cg07517739
PSG10	NR_026824	cg07526408R	Body	cg07526408
		cg07528614R		cg07528614
FURIN	NM_002569	cg07529087F	TSS1500	cg07529087
FIGNL2	NM_001013690	cg07529392F	1stExon	cg07529392
COG3	NM_031431	cg07530947F	Body	cg07530947
C14orf2;C14orf2	NM_001127393;NM_004894	cg07532609F	Body;5'UTR	cg07532609
PRPF40B;PRPF40B	NM_012272;NM_012272	cg07535477R	5'UTR;1stExon	cg07535477
		cg07538216R		cg07538216
ZNF878	NM_001080404	cg07538838F	TSS1500	cg07538838
PRMT7	NM_019023	cg07544189R	5'UTR	cg07544189
CD3G;CD3D;CD3D	NM_000073;NM_000732;NMcg07545925F		TSS200;TSS1500;TSS1500	cg07545925
		cg07549526F		cg07549526
WHSC2;MIR943	NM_005663;NR_030641	cg07550016F	Body;TSS1500	cg07550016
BCYRN1	NR_001568	cg07550694R	Body	cg07550694
		cg07553213F		cg07553213
		cg07555350R		cg07555350
		cg07556057R		cg07556057
DEAF1	NM_021008	cg07556730F	Body	cg07556730
BAIAP2L1	NM_018842	cg07558894R	TSS200	cg07558894
		cg07561890R		cg07561890
		cg07566389F		cg07566389
ADARB2	NM_018702	cg07568644F	Body	cg07568644
RPS11	NM_001015	cg07569288R	Body	cg07569288
LPGAT1	NM_014873	cg07569918F	5'UTR	cg07569918

PLEKHH1	NM_020715	cg07571970F cg07575166R cg07575812F	TSS200	cg07571970 cg07575166 cg07575812
SMAD3	NM_005902	cg07576222R cg07576894F	TSS1500	cg07576222 cg07576894
MRPL23	NM_021134	cg07578618R	TSS200	cg07578618
WDR72	NM_182758	cg07579107R	Body	cg07579107
XPC;XPC;LSM3;XPC	NR_027299;NM_004628;NM	cg07580707F	Body;1st Exon;TSS200;1	cg07580707
KLHL17	NM_198317	cg07582955F	Body	cg07582955
DEDD2	NM_133328	cg07584558F cg07585334R	3'UTR	cg07584558 cg07585334
ERBB4;ERBB4	NM_005235;NM_001042599	cg07585513F	Body;Body	cg07585513
PTPRF;PTPRF	NM_002840;NM_130440	cg07586435R	Body;Body	cg07586435
F3;F3	NM_001993;NM_001993	cg07586725F	1stExon;5'UTR	cg07586725
PEX19;PEX19	NM_001131039;NM_002857	cg07586906R cg07587786R	Body;Body	cg07586906 cg07587786
CABC1	NM_020247	cg07588857R	Body	cg07588857
ZNF266;ZNF266	NM_006631;NM_198058	cg07589201F	TSS200;TSS200	cg07589201
SLC25A30	NM_001010875	cg07590544R cg07590638R	TSS1500	cg07590544 cg07590638
GRIA4;GRIA4	NM_001077243;NM_000829	cg07592190F	Body;Body	cg07592190
ARFIP2;FXC1	NM_012402;NM_012192	cg07593177F	5'UTR;TSS1500	cg07593177
RBMS3;RBMS3;RBMS3	NM_001003792;NM_001003	cg07593662R cg07593845F	Body;Body;Body	cg07593662 cg07593845
PAX8;PAX8;PAX8;PAX8;	NM_003466;NM_013951;NM	cg07594247R	Body;Body;Body;Body;	cg07594247
C11orf41	NM_012194	cg07599644F	3'UTR	cg07599644
GNRHR2;PEX11B	NR_002328;NM_003846	cg07600211F	TSS200;TSS1500	cg07600211
NAALADL2	NM_207015	cg07601747R	Body	cg07601747
BANP;BANP	NM_017869;NM_079837	cg07602985F	5'UTR;5'UTR	cg07602985
CLASP1;CLASP1;CLASP	NM_001142273;NM_015282	cg07603794R	Body;Body;Body	cg07603794
RAB11FIP3;RAB11FIP3	NM_014700;NM_001142272	cg07603951F	Body;Body	cg07603951
ZFP64	NM_199427	cg07604202F cg07607354F	Body	cg07604202 cg07607354
DAGLA	NM_006133	cg07607813R cg07608033F	Body	cg07607813 cg07608033
TMEM50B	NM_006134	cg07612468F	3'UTR	cg07612468
HIPK4	NM_144685	cg07614448F	TSS1500	cg07614448
NFATC2;NFATC2;NFATC	NM_001136021;NM_173091	cg07618979R cg07619656R cg07620039F	Body;Body;Body	cg07618979 cg07619656 cg07620039
FGD5	NM_152536	cg07624815F	Body	cg07624815
TMCO7	NM_024562	cg07625619F	Body	cg07625619
SLC1A5;SLC1A5;SLC1A5	NM_001145145;NM_005628	cg07626482F cg07627726F	TSS1500;Body;5'UTR	cg07626482 cg07627726
GPD2;GPD2	NM_000408;NM_001083112	cg07628178F	3'UTR;3'UTR	cg07628178
COL13A1;COL13A1;COL	NM_080798;NM_080809;NM	cg07630274F cg07631681F cg07633119F	Body;Body;Body;Body;B	cg07630274 cg07631681 cg07633119
USP7	NM_003470	cg07636761R	Body	cg07636761
MXI1;MXI1	NM_130439;NM_001008541	cg07637516R	Body;5'UTR	cg07637516
CRYL1	NM_015974	cg07638320F	Body	cg07638320
AKR1C1	NM_001353	cg07639198R cg07641355R	TSS1500	cg07639198 cg07641355
CPS1;CPS1;CPS1	NM_001122633;NM_001875	cg07643321R	Body;Body;TSS1500	cg07643321

KCTD5	NM_018992	cg07643829F	3'UTR	cg07643829
LACRT	NM_033277	cg07643942R	TSS1500	cg07643942
FAM19A1	NM_213609	cg07645858F	Body	cg07645858
		cg07650712R		cg07650712
		cg07652774F		cg07652774
C22orf34	NR_026997	cg07656641R	Body	cg07656641
SLC19A1	NM_194255	cg07658590F	TSS1500	cg07658590
KRT6C	NM_173086	cg07658640R	TSS1500	cg07658640
		cg07659053R		cg07659053
BEAN	NM_001136106	cg07660473R	5'UTR	cg07660473
		cg07661564F		cg07661564
SLC7A11	NM_014331	cg07661704F	Body	cg07661704
ZNF827	NM_178835	cg07661849R	Body	cg07661849
MCPH1	NM_024596	cg07662864F	Body	cg07662864
MUC21	NM_001010909	cg07664323F	3'UTR	cg07664323
CHCHD1	NM_203298	cg07665058R	Body	cg07665058
PPT2;PPT2	NM_005155;NM_138717	cg07665229R	Body;Body	cg07665229
RAG1	NM_000448	cg07665575F	5'UTR	cg07665575
PCMT1	NM_005389	cg07671221F	TSS200	cg07671221
		cg07675285F		cg07675285
		cg07676361R		cg07676361
JUP;JUP	NM_021991;NM_002230	cg07678594F	5'UTR;5'UTR	cg07678594
INPP5F;INPP5F	NM_014937;NR_003251	cg07679322R	Body;Body	cg07679322
		cg07679581F		cg07679581
C6orf94;LTV1	NM_001013623;NM_032860	cg07683276R	TSS1500;Body	cg07683276
TNRC6A	NM_014494	cg07689148F	Body	cg07689148
GNRH2;GNRH2;GNRH2	NM_178332;NM_001501;NM_001501	cg07691004F	TSS200;TSS200;TSS200	cg07691004
KRAS;KRAS	NM_004985;NM_033360	cg07692853F	TSS1500;TSS1500	cg07692853
RPL39L	NM_052969	cg07693270R	5'UTR	cg07693270
		cg07693523F		cg07693523
DIAPH1;DIAPH1	NM_001079812;NM_005219	cg07697561F	TSS200;TSS200	cg07697561
		cg07699930F		cg07699930
ZC3H18;ZC3H18	NM_144604;NM_144604	cg07702548F	5'UTR;1stExon	cg07702548
ZNF341	NM_032819	cg07704331R	3'UTR	cg07704331
GPR98;GPR98	NM_032119;NR_003149	cg07706111F	3'UTR;Body	cg07706111
SCARA3;SCARA3	NM_182826;NM_016240	cg07706114F	Body;Body	cg07706114
WISP3;WISP3;WISP3	NM_198239;NM_003880;NM_003880	cg07709205F	TSS200;1stExon;5'UTR	cg07709205
MYOM2	NM_003970	cg07709358F	Body	cg07709358
		cg07711927R		cg07711927
		cg07713242F		cg07713242
		cg07716280F		cg07716280
		cg07721777R		cg07721777
LOC285629	NR_027111	cg07725033R	TSS1500	cg07725033
SYPL2	NM_001040709	cg07725836R	TSS1500	cg07725836
		cg07728084F		cg07728084
IKZF5;IKZF5;ACADSB	NM_022466;NM_022466;NM_022466	cg07731146F	5'UTR;1stExon;TSS200	cg07731146
CACNB2;CACNB2;CACNB2	NM_201571;NM_201590;NM_201590	cg07731871R	Body;TSS200;Body;Body	cg07731871
ARF3	NM_001659	cg07732097F	3'UTR	cg07732097
RUSC1;RUSC1;RUSC1;C1	NM_001105205;NM_001105	cg07732755R	Body;Body;Body;TSS1500	cg07732755
GRM4	NM_000841	cg07735790R	TSS200	cg07735790
HLA-DPB2	NR_001435	cg07735952R	Body	cg07735952
ITGA2	NM_002203	cg07737131R	Body	cg07737131
ZNF28	NM_006969	cg07738077F	Body	cg07738077
		cg07741184R		cg07741184

OLFM2	NM_058164	cg07742633F	TSS200	cg07742633
SMOC2;SMOC2	NM_022138;NM_001166412	cg07743548R	Body;Body	cg07743548
RPP21	NM_024839	cg07750744F	Body	cg07750744
		cg07751298R		cg07751298
		cg07752079F		cg07752079
CTBP2;CTBP2;CTBP2	NM_001329;NM_022802;NM_001329	cg07752194F	Body;Body;Body	cg07752194
PPP4C	NM_002720	cg07753245F	TSS1500	cg07753245
		cg07753755R		cg07753755
CASP10;CASP10;CASP10	NM_001230;NM_032977;NM_001230	cg07754492F	5'UTR;5'UTR;1stExon;1stExon	cg07754492
		cg07754531F		cg07754531
		cg07755264R		cg07755264
		cg07757281R		cg07757281
		cg07764386F		cg07764386
		cg07767350F		cg07767350
		cg07767843F		cg07767843
SLC25A33;SLC25A33	NM_032315;NM_032315	cg07775117R	5'UTR;1stExon	cg07775117
		cg07779423R		cg07779423
TUBGCP2	NM_006659	cg07782527R	Body	cg07782527
NGDN;NGDN	NM_001042635;NM_015514	cg07783220F	TSS1500;TSS1500	cg07783220
USP47	NM_017944	cg07784294F	Body	cg07784294
GNAO1;GNAO1	NM_020988;NM_138736	cg07786301R	Body;Body	cg07786301
		cg07788537F		cg07788537
FADD;FADD	NM_003824;NM_003824	cg07790826R	1stExon;5'UTR	cg07790826
SCIN;SCIN	NM_001112706;NM_033128	cg07790939F	Body;TSS200	cg07790939
MYO9B;MYO9B	NM_001130065;NM_004145	cg07791762F	3'UTR;3'UTR	cg07791762
C2orf88;C2orf88;C2orf88	NM_001042521;NM_001042	cg07793537R	5'UTR;1stExon;5'UTR	cg07793537
LRRFIP1	NM_001137550	cg07797518F	TSS200	cg07797518
		cg07797833R		cg07797833
		cg07798143R		cg07798143
CHMP1A;CHMP1A	NM_001083314;NM_002768	cg07798295F	Body;Body	cg07798295
		cg07805040R		cg07805040
PLOD1	NM_000302	cg07810114F	Body	cg07810114
		cg07811255F		cg07811255
TOR1AIP1;TOR1AIP1	NM_015602;NM_015602	cg07817097F	5'UTR;1stExon	cg07817097
NFIC;NFIC	NM_005597;NM_205843	cg07818063R	Body;Body	cg07818063
MAST3	NM_015016	cg07821574R	TSS200	cg07821574
ANKLE2	NM_015114	cg07827008R	TSS1500	cg07827008
OLR1	NM_002543	cg07829804F	TSS1500	cg07829804
NF2;NF2;NF2;NF2;NF2;NF2;NF2;NF2	NM_181830;NM_016418;NM_181830	cg07830226R	3'UTR;3'UTR;3'UTR;3'UTR	cg07830226
		cg07830906F		cg07830906
		cg07831032R		cg07831032
CBX4	NM_003655	cg07833397F	Body	cg07833397
		cg07836478F		cg07836478
CIB4	NM_001029881	cg07838002F	TSS200	cg07838002
PRSSL1	NM_214710	cg07839105R	Body	cg07839105
		cg07841357F		cg07841357
		cg07841686R		cg07841686
MIDN	NM_177401	cg07843568R	Body	cg07843568
MUM1;MUM1	NR_024247;NM_032853	cg07844072F	Body;Body	cg07844072
SLIT1	NM_003061	cg07844694F	TSS1500	cg07844694
SCD5;SCD5	NM_001037582;NM_024906	cg07844828R	Body;Body	cg07844828
		cg07851361R		cg07851361
PQLC1;PQLC1;PQLC1	NM_025078;NM_001146343	cg07853919F	TSS1500;TSS1500;TSS1500	cg07853919
		cg07855322F		cg07855322

WWC2	NM_024949	cg07855449R	Body	cg07855449
CDC42EP1	NM_152243	cg07855639R	5'UTR	cg07855639
SPN;SPN	NM_001030288;NM_003123	cg07856138R	TSS1500;TSS1500	cg07856138
GPR123	NM_001083909	cg07860140R cg07861329F	Body	cg07860140 cg07861329
NHP2;NHP2	NM_017838;NM_001034833	cg07869651F	TSS1500;TSS1500	cg07869651
CC2D1A;C19orf57;CC2D1	NM_017721;NM_024323;NM_017721	cg07871636R cg07872276R cg07872302R cg07872608R cg07875068R cg07875146R	5'UTR;TSS1500;1stExon	cg07871636 cg07872276 cg07872302 cg07872608 cg07875068 cg07875146
GTSF1	NM_144594	cg07875328F	5'UTR	cg07875328
TTK;TTK	NM_003318;NM_001166691	cg07881623R	Body;Body	cg07881623
TSEN2;TSEN2;TSEN2;TSEN2	NM_001145395;NM_001145	cg07882382F cg07886017R cg07891044F	5'UTR;5'UTR;1stExon;5'	cg07882382 cg07886017 cg07891044
CTNNA1	NM_001903	cg07893230R	TSS200	cg07893230
ZCCHC24	NM_153367	cg07894883R	Body	cg07894883
GPATCH8	NM_001002909	cg07895381F	Body	cg07895381
RAB40C	NM_021168	cg07896984F cg07899263R	Body	cg07896984 cg07899263
GMIP	NM_016573	cg07899459R	TSS1500	cg07899459
TP73	NM_005427	cg07901143R	TSS1500	cg07901143
POLR3B;POLR3B	NM_001160708;NM_018082	cg07902406R	Body;Body	cg07902406
FAM59B	NM_001168241	cg07902785F	3'UTR	cg07902785
PTCH2;PTCH2	NM_001166292;NM_003738	cg07905537F	TSS1500;TSS1500	cg07905537
NCDN;NCDN;KIAA0319	NM_014284;NM_001014841	cg07905888F cg07906828F	TSS200;TSS200;TSS1500	cg07905888 cg07906828
GLUL;GLUL;GLUL	NM_001033056;NM_002065	cg07908229R cg07910065R cg07910724R	Body;Body;Body	cg07908229 cg07910065 cg07910724
KIF26B	NM_018012	cg07915884R	Body	cg07915884
GPR123	NM_001083909	cg07916654F	Body	cg07916654
NF1;NF1	NM_001042492;NM_000267	cg07917842F	Body;Body	cg07917842
TXLNA	NM_175852	cg07919197R	Body	cg07919197
RIMS3	NM_014747	cg07920414F	Body	cg07920414
DNA2	NM_001080449	cg07921144R cg07921682R	Body	cg07921144 cg07921682
EFCAB5;EFCAB5;EFCAB5	NR_026738;NM_198529;NM_001080449	cg07922204R cg07923588F cg07926733F	Body;Body;Body	cg07922204 cg07923588 cg07926733
PPP3CB;PPP3CB;PPP3CB	NM_021132;NM_001142354	cg07926858R	Body;Body;Body	cg07926858
CCDC124;CCDC124	NM_001136203;NM_138442	cg07930940R	5'UTR;TSS1500	cg07930940
RAE1;RAE1	NM_001015885;NM_003610	cg07931024F cg07931608R	TSS1500;TSS1500	cg07931024 cg07931608
SLC2A14	NM_153449	cg07931785F	TSS1500	cg07931785
RASA3	NM_007368	cg07932334R	Body	cg07932334
DCC	NM_005215	cg07935012R	TSS200	cg07935012
ZNF768	NM_024671	cg07936430R	TSS1500	cg07936430
LOC641367;ZNF100	NR_024523;NM_173531	cg07936931R	TSS200;Body	cg07936931
TIAM2;TIAM2	NM_012454;NM_001010927	cg07943832R	Body;Body	cg07943832
SNORD115-38	NR_003353	cg07945925R	TSS1500	cg07945925
C19orf34;CSNK1G2	NM_152771;NM_001319	cg07946961R	TSS1500;5'UTR	cg07946961

SNORD114-23;SNORD114	NR_003216;NR_003215	cg07947615F	TSS1500;Body	cg07947615
C19orf18	NM_152474	cg07947705R	3'UTR	cg07947705
		cg07949103R		cg07949103
		cg07950964R		cg07950964
		cg07951151R		cg07951151
LBR;LBR	NM_194442;NM_002296	cg07954054R	3'UTR;3'UTR	cg07954054
		cg07956857F		cg07956857
		cg07957069F		cg07957069
LYPD4	NM_173506	cg07959016F	Body	cg07959016
DNAJC9	NM_015190	cg07959124R	Body	cg07959124
FAM19A5;FAM19A5	NM_015381;NM_001082967	cg07959986R	Body;Body	cg07959986
		cg07962358F		cg07962358
GON4L;GON4L	NM_032292;NM_001037533	cg07963046R	Body;Body	cg07963046
GALR2	NM_003857	cg07963349R	Body	cg07963349
ABCC6	NM_001171	cg07965331F	Body	cg07965331
SPATS2	NM_023071	cg07968760R	5'UTR	cg07968760
GBP1	NM_002053	cg07970007R	TSS1500	cg07970007
KCNK16;KCNK16;KCNK	NM_001135107;NM_001135	cg07970874R	TSS200;TSS200;TSS200	cg07970874
BCAR4;BCAR4	NR_024049;NR_024050	cg07971129F	TSS1500;TSS1500	cg07971129
		cg07971716R		cg07971716
ARRB2;ARRB2	NM_004313;NM_199004	cg07971820R	Body;Body	cg07971820
ATP11A;ATP11A	NM_015205;NM_032189	cg07971952F	Body;Body	cg07971952
FOXG1	NM_005249	cg07974473R	TSS1500	cg07974473
CDH11	NM_001797	cg07976976F	5'UTR	cg07976976
		cg07977689F		cg07977689
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM_	cg07978494R	Body;Body;Body	cg07978494
CD2AP	NM_012120	cg07980671F	Body	cg07980671
CHST6	NM_021615	cg07982935R	TSS1500	cg07982935
DIP2C	NM_014974	cg07983394R	Body	cg07983394
PRR13;PRR13	NM_018457;NM_001005354	cg07989501F	TSS200;TSS200	cg07989501
TNFRSF21	NM_014452	cg07989740F	Body	cg07989740
SHKBP1	NM_138392	cg07989796F	TSS200	cg07989796
NLRP7;NLRP7;NLRP7	NM_001127255;NM_139176	cg07993003R	5'UTR;5'UTR;5'UTR	cg07993003
		cg07997387R		cg07997387
KCNH2;KCNH2;KCNH2	NM_172056;NM_172057;NM_	cg07998558F	Body;Body;Body	cg07998558
QSOX1;QSOX1	NM_002826;NM_001004128	cg08007338R	TSS200;TSS200	cg08007338
SPRR2B	NM_001017418	cg08009265F	TSS1500	cg08009265
		cg08010037F		cg08010037
NECAB2	NM_019065	cg08011335R	Body	cg08011335
		cg08015388R		cg08015388
LOC100329108;GCSH;GC	NR_033247;NR_033249;NM_	cg08020762R	TSS200;TSS200;TSS200	cg08020762
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg08021734R	Body;Body;Body	cg08021734
GTF2IRD1;GTF2IRD1	NM_016328;NM_005685	cg08023476R	5'UTR;5'UTR	cg08023476
		cg08024169F		cg08024169
C2orf27B	NM_214461	cg08026195F	TSS1500	cg08026195
DNAH6	NM_001370	cg08026651R	TSS1500	cg08026651
RANBP2;RANBP2	NM_006267;NM_006267	cg08028004R	1stExon;5'UTR	cg08028004
INTS6;INTS6;INTS6	NM_012141;NM_001039938	cg08028037R	TSS1500;TSS1500;TSS1500	cg08028037
		cg08028698F		cg08028698
GPR125	NM_145290	cg08034505F	Body	cg08034505
		cg08034613R		cg08034613
GIMAP7	NM_153236	cg08037327R	TSS1500	cg08037327
SLC2A10	NM_030777	cg08038974R	TSS200	cg08038974
NSA2;NSA2;GFM2;GFM2	NM_014886;NM_014886;NM_	cg08039701R	5'UTR;1stExon;TSS200;	cg08039701



ATXN2;ATXN2	NM_002973;NM_002973	cg08041019R cg08041523F	5'UTR;1stExon	cg08041019 cg08041523
BAI2	NM_001703	cg08042273R	5'UTR	cg08042273
FAM135A;FAM135A;FAMNM_020819;NM_001105531		cg08044366F	Body;Body;Body	cg08044366
C14orf73	NM_001077594	cg08048720F	TSS200	cg08048720
ILF3;ILF3;ILF3;LOC14772	NM_012218;NM_004516;NM_00449136F	cg08049136F	5'UTR;5'UTR;5'UTR;TS	cg08049136
OR52W1	NM_001005178	cg08050940F	TSS200	cg08050940
MYO1C;MYO1C	NM_033375;NM_001080779	cg08051602F	5'UTR;Body	cg08051602
PVRL2;PVRL2	NM_002856;NM_001042724	cg08054038R	TSS1500;TSS1500	cg08054038
PPT2;PPT2	NM_005155;NM_138717	cg08057899F cg08059719F	Body;Body	cg08057899 cg08059719
CELSR3	NM_001407	cg08063452F cg08063757F	Body	cg08063452 cg08063757
NRF1;NRF1	NM_005011;NM_001040110	cg08065238R	Body;Body	cg08065238
HOXA5	NM_019102	cg08070327R	TSS1500	cg08070327
IKZF1	NM_006060	cg08072980F	Body	cg08072980
PPP1R9A;PPP1R9A;PPP1R9A;PPP1R9A	NM_001166161;NM_001166161	cg08073166R cg08075604F	TSS1500;5'UTR;TSS1500	cg08073166 cg08075604
CTTNBP2	NM_033427	cg08076147F	TSS1500	cg08076147
ESRRB	NM_004452	cg08079330R cg08080822R	5'UTR	cg08079330 cg08080822
COL20A1	NM_020882	cg08083599R cg08090296F cg08090385R cg08093398R	Body	cg08083599 cg08090296 cg08090385 cg08093398
TTC15	NM_016030	cg08094235R	Body	cg08094235
MIR96	NR_029512	cg08100535F cg08101955R cg08104224F	TSS200	cg08100535 cg08101955 cg08104224
GLUL;GLUL;GLUL	NM_001033056;NM_002065	cg08104845F	Body;Body;Body	cg08104845
ZFAND3	NM_021943	cg08106319R cg08106973F	Body	cg08106319 cg08106973
PRKCZ	NM_002744	cg08108679F	Body	cg08108679
USP42	NM_032172	cg08109855F cg08110455F	TSS200	cg08109855 cg08110455
FDXR;FDXR	NM_024417;NM_004110	cg08112448F	TSS200;TSS200	cg08112448
OSR2;OSR2	NM_053001;NM_001142462	cg08115114R	TSS1500;TSS1500	cg08115114
TK1	NM_003258	cg08115732F	Body	cg08115732
ZFAT	NM_020863	cg08116775F	TSS1500	cg08116775
NOTCH4	NM_004557	cg08117728R cg08119506F	Body	cg08117728 cg08119506
AKAP10	NM_007202	cg08120389F	TSS200	cg08120389
CLEC16A;CLEC16A	NM_015226;NM_015226	cg08125682F	1stExon;5'UTR	cg08125682
BCL11B;BCL11B	NM_022898;NM_138576	cg08129129F	Body;Body	cg08129129
SCARNA9L;EIF1AX	NR_023358;NM_001412	cg08129292F	TSS1500;Body	cg08129292
IQCH;IQCH	NM_001031715;NM_022784	cg08129766R	Body;Body	cg08129766
ANKRD11	NM_013275	cg08134863F cg08135327R cg08135368R cg08135815F	5'UTR	cg08134863 cg08135327 cg08135368 cg08135815
EPHA2;EPHA2	NM_004431;NM_004431	cg08137080F cg08137564F	1stExon;5'UTR	cg08137080 cg08137564
CLEC14A;CLEC14A	NM_175060;NM_175060	cg08139247R	1stExon;5'UTR	cg08139247
FLAD1;FLAD1	NM_025207;NM_201398	cg08140891F	TSS200;TSS200	cg08140891

FUT6;FUT6	NM_001040701;NM_000150	cg08145495R	5'UTR;5'UTR	cg08145495
CCDC79;CCDC79	NM_001136505;NM_001136	cg08151832R	5'UTR;1stExon	cg08151832
TBCD	NM_005993	cg08153595F	Body	cg08153595
CACNA1A;CACNA1A	NM_001127222;NM_001127	cg08153694F cg08154731R	Body;Body	cg08153694 cg08154731
PEG3;PEG3;PEG3;ZIM2;ZNM	001146186;NM_001146	cg08155759R	3'UTR;3'UTR;3'UTR;Bo	cg08155759
BANP;BANP	NM_017869;NM_079837	cg08157440R cg08158115R cg08158188R	Body;Body	cg08157440 cg08158115 cg08158188
SPSB4	NM_080862	cg08158518F	3'UTR	cg08158518
MTA3	NM_020744	cg08160317F	Body	cg08160317
SCYL3;SCYL3	NM_181093;NM_020423	cg08161205F	5'UTR;5'UTR	cg08161205
EPS8L1;EPS8L1	NM_017729;NM_133180	cg08166750R cg08168585R	Body;Body	cg08166750 cg08168585
C16orf53;MVP;MVP	NM_024516;NM_017458;NM	cg08168844F	Body;TSS1500;TSS1500	cg08168844
PTPN4	NM_002830	cg08170119F cg08171125R cg08172479R cg08174355F cg08174577R	5'UTR	cg08170119 cg08171125 cg08172479 cg08174355 cg08174577
ODZ3	NM_001080477	cg08174779R	Body	cg08174779
MYOM2	NM_003970	cg08174789F cg08175396F	Body	cg08174789 cg08175396
PITPNM2	NM_020845	cg08176694R	5'UTR	cg08176694
DUSP22	NM_020185	cg08177126R cg08178956R	Body	cg08177126 cg08178956
HSPD1;HSPD1	NM_199440;NM_002156	cg08179257R cg08180070R cg08181060F	Body;Body	cg08179257 cg08180070 cg08181060
EPN1;EPN1;EPN1	NM_001130072;NM_013333	cg08181534F	5'UTR;5'UTR;TSS1500	cg08181534
SLC29A2	NM_001532	cg08181642R	Body	cg08181642
ZNF706;ZNF706;ZNF706;	NM_001042511;NM_001042	cg08187779F	TSS200;5'UTR;5'UTR;1s	cg08187779
FAM160B1	NM_001135051	cg08188268R cg08198040F cg08198983F	Body	cg08188268 cg08198040 cg08198983
F2RL3	NM_003950	cg08200625F cg08203624R cg08203788R	Body	cg08200625 cg08203624 cg08203788
ZDHHC8	NM_013373	cg08204155F	3'UTR	cg08204155
JPH3	NM_020655	cg08204714F	Body	cg08204714
SYT17	NM_016524	cg08206092F	Body	cg08206092
ST6GALNAC2	NM_006456	cg08208236R	Body	cg08208236
LOC643387;LOC151174;LNR	026923;NR_026925;NR	cg08209614F	Body;TSS1500;TSS1500	cg08209614
SWAP70	NM_015055	cg08213398R cg08213444F	Body	cg08213398 cg08213444
NLRC3;NLRC3	NM_178844;NM_178844	cg08213607F cg08213792R cg08215453R	1stExon;5'UTR	cg08213607 cg08213792 cg08215453
UNKL	NM_001037125	cg08218877R	Body	cg08218877
TRIM7;TRIM7;TRIM7;TRINM	203293;NM_203294;NM	cg08222293F	Body;5'UTR;5'UTR;5'UT	cg08222293
SYDE1	NM_033025	cg08224208R cg08224649R cg08224787F	TSS200	cg08224208 cg08224649 cg08224787
SFI1;SFI1;SFI1;SFI1	NM_001007467;NM_001007	cg08226295R	5'UTR;1stExon;1stExon;	cg08226295

PARN;PARN	NM_001134477;NM_002582	cg08227786R cg08228217F	Body;Body	cg08227786 cg08228217
PRSS12	NM_003619	cg08229018R cg08230553R	TSS1500	cg08229018 cg08230553
SCRIB;SCRIB FLJ22536	NM_015356;NM_182706 NR_015410	cg08231333R cg08233811F cg08234149F	Body;Body Body	cg08231333 cg08233811 cg08234149
PLA2G2A;PLA2G2A;PLA GNG11	NM_000300;NM_001161729 NM_004126	cg08235413R cg08236022F	5'UTR;5'UTR;5'UTR;5'UTR	cg08235413 cg08236022
ADK;ADK	NM_001123;NM_006721	cg08237400F	Body;Body	cg08237400
SCARNA27;EEF1E1;EEF1 LSM7	NR_003703;NM_004280;NM NM_016199	cg08238166R cg08241841F	TSS200;Body;Body Body	cg08238166 cg08241841
DDX3X	NM_001356	cg08242820F cg08245317F	Body	cg08242820 cg08245317
ENTHD1	NM_152512	cg08245789F	5'UTR	cg08245789
KCNQ1;KCNQ1 BCAR3	NM_000218;NM_181798 NM_003567	cg08249467R cg08249608F cg08253164F cg08254315R	Body;Body Body	cg08249467 cg08249608 cg08253164 cg08254315
C6orf227	NR_027908	cg08255724F	Body	cg08255724
CACNA1H;CACNA1H ADORA3	NM_021098;NM_001005407 NM_001081976	cg08256701R cg08256939F	Body;Body Body	cg08256701 cg08256939
KRT83	NM_002282	cg08257133F cg08260790R	Body	cg08257133 cg08260790
HIST1H4F	NM_003540	cg08260959R	1stExon	cg08260959
MAD1L1;MAD1L1;MAD1 TDH	NM_003550;NM_001013837 NR_001578	cg08264122R cg08265495R	Body;Body;Body Body	cg08264122 cg08265495
PHOX2A	NM_005169	cg08265548R	Body	cg08265548
SNTG1;SNTG1 HPCAL1;HPCAL1	NM_018967;NM_018967 NM_134421;NM_002149	cg08265769F cg08266974R cg08267805R	5'UTR;1stExon 3'UTR;3'UTR	cg08265769 cg08266974 cg08267805
PIK3R5	NM_001142633	cg08269742R	5'UTR	cg08269742
LOC641367;ZNF100	NR_024523;NM_173531	cg08270240F cg08270630R cg08273063R cg08273502R	Body;Body	cg08270240 cg08270630 cg08273063 cg08273502
C3orf49	NR_026866	cg08274057F cg08274097R	Body	cg08274057 cg08274097
SLC44A2	NM_001145056	cg08275454F	Body	cg08275454
NCOR2;NCOR2 AGXT2L2	NM_006312;NM_001077261 NM_153373	cg08276543F cg08276690F cg08276755F	Body;Body TSS200	cg08276543 cg08276690 cg08276755
CCDC144NL ETFB;ETFB	NM_001004306 NM_001014763;NM_001985	cg08277486F cg08283318R cg08284263R	Body TSS1500;Body	cg08277486 cg08283318 cg08284263
TERF2	NM_005652	cg08284713F	Body	cg08284713
FAM189A1	NM_015307	cg08284758R cg08288074F	Body	cg08284758 cg08288074
BAT1;BAT1	NM_080598;NM_004640	cg08288345F	Body;Body	cg08288345
SNORD41;TNPO2;TNPO2 RPH3AL	NR_002751;NM_001136195; NM_006987	cg08289176R cg08291304R cg08292519F cg08294568F	TSS1500;Body;Body;Bo Body	cg08289176 cg08291304 cg08292519 cg08294568
VENTXP1	NR_001559	cg08297137F	TSS1500	cg08297137

LDB3;LDB3;LDB3;LDB3;INM_001080115;NM_001080	cg08300860R cg08302302F	TSS200;TSS200;1stExo	cg08300860 cg08302302
FAM54B;FAM54B;FAM5	NM_001099625;NM_001099	TSS1500;TSS1500;TSS1c	cg08304059F cg08309013F
FAM3A;FAM3A;FAM3A;ENM_021806;NM_001171133	cg08311689F cg08312152F	3'UTR;3'UTR;3'UTR;Bo	cg08311689 cg08312152
INPPL1	NM_001567	3'UTR	cg08315145F
SMARCA4;SMARCA4;SMNM_003072;NM_001128849	cg08315613F cg08318582R	5'UTR;5'UTR;5'UTR	cg08315613 cg08318582
TMEM132D	NM_133448	Body	cg08319936R cg08320989R cg08321382F cg08324862R
CCDC129;CCDC129	NM_194300;NM_194300	1stExon;5'UTR	cg08325307F
CIRH1A	NM_032830	Body	cg08327038R cg08328124R
LOC344967;N4BP2	NR_027277;NM_018177	TSS200;5'UTR	cg08330919F cg08333243R cg08334022F cg08338237R
SIGLEC14	NM_001098612	TSS200	cg08339192F cg08339324F
USP31	NM_020718	Body	cg08340023R cg08344297R
FAM117B	NM_173511	Body	cg08347442R cg08349108R
DLX2	NM_004405	Body	cg08351004F
TALDO1	NM_006755	3'UTR	cg08351017F
LBP	NM_004139	Body	cg08351331R
KDM2A;KDM2A	NR_027473;NM_012308	Body;Body	cg08351710F
ARSG	NM_014960	Body	cg08352115F cg08352422R cg08354320R cg08355345F cg08356248R
USP6NL	NM_014688	5'UTR	cg08360820F
SLC16A8	NM_013356	TSS200	cg08363074R cg08363518F cg08363684R cg08364334F
NDRG4;NDRG4;NDRG4	NM_020465;NM_022910;NM_022910	Body;Body;Body	cg08367638F
DTWD1;DTWD1;DTWD1	NM_020234;NM_001144955	1stExon;1stExon;5'UTR;	cg08370718R
ADRB2;ADRB2	NM_000024;NM_000024	1stExon;3'UTR	cg08370787R
FAM19A1	NM_213609	Body	cg08371086R
PITX1	NM_002653	Body	cg08373003R
ZC3H3	NM_015117	Body	cg08380064F
NRG2;NRG2;NRG2;NRG2	NM_013982;NM_013983;NM_013983;NM_013983	Body;Body;Body;Body	cg08382035F cg08383930R cg08384657R
CYP11B1;CYP11B1	NM_001026213;NM_000497	3'UTR;3'UTR	cg08389266F
MCC;MCC	NM_002387;NM_001085377	TSS200;Body	cg08391321R cg08391745F
PUS7	NM_019042	Body	cg08392746F
BAT2	NM_080686	Body	cg08394355R

NWD1	NM_001007525	cg08394597F	3'UTR	cg08394597
ZNF57	NM_173480	cg08395822R	TSS1500	cg08395822
		cg08397205F		cg08397205
		cg08398805F		cg08398805
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_08401938R	cg08401938R	Body;Body;Body	cg08401938
RAB3IP;RAB3IP;RAB3IP;	NM_175625;NM_175624;NM_08403691R	cg08403691R	Body;Body;Body;Body;B	cg08403691
NCK2;NCK2;NCK2	NM_001004722;NM_001004	cg08405910R	Body;Body;Body	cg08405910
PRAM1	NM_032152	cg08409566F	Body	cg08409566
		cg08411512F		cg08411512
		cg08411833R		cg08411833
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg08411881F	Body;Body;Body	cg08411881
VASP	NM_003370	cg08425610R	3'UTR	cg08425610
		cg08426898F		cg08426898
ICAM1	NM_000201	cg08427717F	TSS200	cg08427717
		cg08431882F		cg08431882
		cg08432053R		cg08432053
NCOA7;NCOA7	NM_001122842;NM_181782	cg08432204F	Body;Body	cg08432204
LOC641367;ZNF100	NR_024523;NM_173531	cg08435603R	TSS200;Body	cg08435603
LASS6	NM_203463	cg08435945F	Body	cg08435945
		cg08436798R		cg08436798
PAQR5;PAQR5	NM_017705;NM_001104554	cg08437576R	5'UTR;5'UTR	cg08437576
TBCD	NM_005993	cg08439022F	TSS1500	cg08439022
CAPN2;CAPN2	NM_001748;NM_001146068	cg08439122R	TSS1500;Body	cg08439122
SCFD2	NM_152540	cg08441269R	Body	cg08441269
IKZF3;IKZF3;IKZF3;IKZF	NM_183228;NM_183229;NM_08441850R	cg08441850R	Body;Body;Body;Body;B	cg08441850
TUBB4;MIR220B	NM_006087;NR_030585	cg08441918F	Body;TSS1500	cg08441918
ABCC12	NM_033226	cg08447910F	3'UTR	cg08447910
		cg08450085R		cg08450085
		cg08450091F		cg08450091
PLOD3	NM_001084	cg08451977R	Body	cg08451977
CNBD1	NM_173538	cg08454110R	Body	cg08454110
RMND1;C6orf211	NM_017909;NM_024573	cg08456130F	TSS200;TSS200	cg08456130
WDR37	NM_014023	cg08457232F	Body	cg08457232
CSGALNACT1;CSGALNAN	NM_001130518;NR_024040;	cg08458378R	5'UTR;Body;5'UTR	cg08458378
BSND	NM_057176	cg08458711F	Body	cg08458711
ZNF703	NM_025069	cg08458733R	Body	cg08458733
		cg08463306F		cg08463306
ANKRD20B	NR_003366	cg08463813F	Body	cg08463813
BAI1	NM_001702	cg08464177F	Body	cg08464177
RASA3	NM_007368	cg08464734F	Body	cg08464734
IDO1	NM_002164	cg08465774F	Body	cg08465774
ZNF160;ZNF160;ZNF160	NM_033288;NM_198893;NM_08470053R	cg08470053R	5'UTR;5'UTR;5'UTR	cg08470053
TMC8;TMC6	NM_152468;NM_007267	cg08470991R	TSS1500;5'UTR	cg08470991
		cg08471800F		cg08471800
FANK1	NM_145235	cg08472559F	TSS200	cg08472559
RNF14;RNF14;RNF14;RN	NM_183398;NM_004290;NM_08472753F	cg08472753F	5'UTR;5'UTR;5'UTR;5'U	cg08472753
PARM1	NM_015393	cg08477106F	Body	cg08477106
PANK3	NM_024594	cg08477779F	TSS1500	cg08477779
PCBP1	NM_006196	cg08479476R	TSS1500	cg08479476
ANKH	NM_054027	cg08482307R	Body	cg08482307
		cg08484225R		cg08484225
ZNF365;ZNF365	NM_199452;NM_199451	cg08488494R	5'UTR;Body	cg08488494
SLC43A2	NM_152346	cg08488915F	Body	cg08488915
MUC4;MUC4;MUC4	NM_018406;NM_004532;NM_08493265F	cg08493265F	TSS200;TSS200;TSS200	cg08493265

FOXO3;FOXO3	NM_001455;NM_201559	cg08494708F	TSS200;5'UTR	cg08494708
FLJ22536	NR_015410	cg08495374R	Body	cg08495374
FZD8	NM_031866	cg08495456F	TSS1500	cg08495456
		cg08501735R		cg08501735
RNF141	NM_016422	cg08502759F	TSS200	cg08502759
HOMER3;HOMER3;HOMER3	NR_027297;NM_004838;NM_004838	cg08505135F	Body;Body;Body;Body;Body	cg08505135
ITGA8	NM_003638	cg08506303F	Body	cg08506303
FRG2B	NM_001080998	cg08516112R	TSS1500	cg08516112
SLC12A7	NM_006598	cg08516247R	Body	cg08516247
CDH13	NM_001257	cg08518101R	Body	cg08518101
ALCAM	NM_001627	cg08519233R	TSS200	cg08519233
CLUAP1	NM_015041	cg08521777R	TSS1500	cg08521777
		cg08521932R		cg08521932
CTSC;CTSC;CTSC	NM_148170;NM_148170	cg08522340R	Body;Body;Body	cg08522340
NAALAD2	NM_005467	cg08523325R	Body	cg08523325
		cg08524389F		cg08524389
ARHGAP22	NM_021226	cg08524474R	TSS200	cg08524474
NECAB3;NECAB3	NM_031232;NM_031231	cg08525989F	TSS200;TSS200	cg08525989
ZNF665	NM_024733	cg08526140F	5'UTR	cg08526140
TMEM116;ERP29;ERP29	NM_138341;NM_006817;NM_006817	cg08528204F	TSS1500;Body;Body	cg08528204
		cg08528474R		cg08528474
FAM129C;FAM129C	NM_001098524;NM_173544	cg08528778R	TSS200;TSS200	cg08528778
EGFL7;EGFL7	NM_201446;NM_016215	cg08529852R	5'UTR;5'UTR	cg08529852
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg08530934R	Body;Body;Body	cg08530934
ATP11A;ATP11A	NM_015205;NM_032189	cg08531746R	Body;Body	cg08531746
RBM9;RBM9	NM_001082578;NM_001082	cg08532569F	TSS200;TSS200	cg08532569
OTUD1;OTUD1	NM_001145373;NM_001145	cg08536417F	5'UTR;1stExon	cg08536417
ABCY9;OGFOD2	NM_203444;NM_024623	cg08536481F	5'UTR;TSS1500	cg08536481
COL29A1;COL29A1	NM_153264;NR_022012	cg08536961R	TSS1500;TSS1500	cg08536961
PLD3;PLD3	NM_012268;NM_001031696	cg08539962R	5'UTR;5'UTR	cg08539962
C10orf79;MIR609	NM_025145;NR_030340	cg08540829R	Body;TSS1500	cg08540829
BANP;BANP	NM_017869;NM_079837	cg08542520F	Body;Body	cg08542520
NRN1	NM_016588	cg08545493F	Body	cg08545493
TMEM104	NM_017728	cg08546016R	Body	cg08546016
		cg08546300F		cg08546300
		cg08547427R		cg08547427
		cg08548315F		cg08548315
TAF1C;TAF1C	NM_139353;NM_005679	cg08550881F	Body;Body	cg08550881
CHTF8;CHTF8;CIRH1A;CIRH1A	NR_001039690;NR_033227;NR_033227	cg08555160F	5'UTR;Body;TSS200;TSS200	cg08555160
		cg08557649R		cg08557649
RTN4R	NM_023004	cg08557686F	TSS1500	cg08557686
SRGAP3;SRGAP3	NM_014850;NM_001033117	cg08558733F	3'UTR;3'UTR	cg08558733
		cg08565320R		cg08565320
		cg08570458R		cg08570458
		cg08576308R		cg08576308
MCPH1	NM_024596	cg08580015R	Body	cg08580015
		cg08589776R		cg08589776
ST5;ST5;ST5	NM_139157;NM_213618;NM_213618	cg08592104R	Body;Body;Body	cg08592104
FAM155A	NM_001080396	cg08592160F	Body	cg08592160
TTYH2	NM_032646	cg08594554F	Body	cg08594554
SMG6;SMG6	NM_017575;NM_001170957	cg08594632R	Body;Body	cg08594632
		cg08597799F		cg08597799
DOCK9;DOCK9	NM_015296;NM_001130049	cg08599355R	Body;Body	cg08599355
HIPK2;HIPK2	NM_001113239;NM_022740	cg08600218F	Body;Body	cg08600218

LOC647979	NR_027451	cg08600765F	Body	cg08600765
WNT8A	NM_058244	cg08603768F	Body	cg08603768
C7orf23;DMTF1;DMTF1;DNM_024315;NM_001142326		cg08605855F	3'UTR;3'UTR;3'UTR;Bo	cg08605855
ASPSCR1	NM_024083	cg08606174R	Body	cg08606174
		cg08606748F		cg08606748
		cg08609238F		cg08609238
REEP6;PCSK4	NM_138393;NM_017573	cg08610201R	TSS200;TSS1500	cg08610201
AQP2	NM_000486	cg08612011F	3'UTR	cg08612011
		cg08613794R		cg08613794
KIF1A	NM_004321	cg08614562F	Body	cg08614562
HCCA2	NM_053005	cg08615818R	Body	cg08615818
PKP3	NM_007183	cg08616951R	Body	cg08616951
HMG3;HMG3;HMG3;NM_004242;NM_138730;NM_08621418F		cg08621418F	5'UTR;5'UTR;1stExon;1stExon;	cg08621418
SIPA1L3	NM_015073	cg08622098R	5'UTR	cg08622098
SND1	NM_014390	cg08625996F	Body	cg08625996
KRT81	NM_002281	cg08629097F	TSS1500	cg08629097
GIMAP7	NM_153236	cg08637514F	5'UTR	cg08637514
HIST3H2BB;HIST3H2A;HNM_175055;NM_033445;NM_08639523R		cg08639523R	TSS1500;1stExon;3'UTR	cg08639523
CXorf59	NM_173695	cg08641506R	3'UTR	cg08641506
HDLBP;HDLBP	NM_203346;NM_005336	cg08645257F	5'UTR;5'UTR	cg08645257
		cg08645402F		cg08645402
SMUG1	NM_014311	cg08645878R	TSS1500	cg08645878
GALNS	NM_000512	cg08647453F	Body	cg08647453
		cg08649216F		cg08649216
ULK4	NM_017886	cg08649501F	5'UTR	cg08649501
		cg08650676R		cg08650676
PI4KAP2	NR_003700	cg08651039F	Body	cg08651039
		cg08653258R		cg08653258
FAM111A;FAM111A;FAM111A;NM_001142519;NM_022074		cg08653292F	Body;Body;Body;Body;	cg08653292
SPIRE2	NM_032451	cg08655664F	Body	cg08655664
PLCH2	NM_014638	cg08655953R	Body	cg08655953
		cg08656064F		cg08656064
PRKCZ;PRKCZ	NM_002744;NM_001033581	cg08659047F	Body;5'UTR	cg08659047
MBD3	NM_003926	cg08660999F	TSS1500	cg08660999
C1orf101;C1orf101	NM_001130957;NM_173807	cg08665251R	Body;Body	cg08665251
		cg08668199F		cg08668199
LHFPL2	NM_005779	cg08672140F	5'UTR	cg08672140
		cg08672225F		cg08672225
		cg08672695R		cg08672695
		cg08675000F		cg08675000
MYO1C;MYO1C;MYO1C;NM_001080779;NM_033375		cg08676455R	Body;Body;Body	cg08676455
PCTP;PCTP	NM_001102402;NM_021213	cg08676730F	TSS200;TSS200	cg08676730
		cg08677243F		cg08677243
LMF1	NM_022773	cg08678437R	Body	cg08678437
		cg08680598F		cg08680598
		cg08681117F		cg08681117
LOC727677	NR_024393	cg08682625F	Body	cg08682625
		cg08684630F		cg08684630
B3GAT3	NM_012200	cg08687137F	TSS200	cg08687137
MYT1L	NM_015025	cg08689708F	Body	cg08689708
WDR51A;WDR51A;WDR51A;NM_001161581;NM_015426		cg08692210R	TSS200;TSS200;TSS200	cg08692210
C3orf20	NM_032137	cg08692541R	TSS1500	cg08692541
VIPR2	NM_003382	cg08693281F	Body	cg08693281
NT5M	NM_020201	cg08693337R	Body	cg08693337

		cg08694923R		cg08694923
RGMA;RGMA;RGMA;RG	NM_001166289;NM_020211	cg08695357F	TSS1500;Body;TSS1500	cg08695357F
		cg08696316F		cg08696316
COL4A2	NM_001846	cg08702745R	Body	cg08702745
		cg08704623R		cg08704623
KIAA1217	NM_001098500	cg08704681F	TSS200	cg08704681
ZC3H12A	NM_025079	cg08706837F	TSS200	cg08706837
		cg08708790F		cg08708790
NXPH4	NM_007224	cg08711175R	Body	cg08711175
		cg08712008F		cg08712008
TMEM154;TMEM154	NM_152680;NM_152680	cg08712722R	1stExon;5'UTR	cg08712722
AHRR	NM_020731	cg08714121R	Body	cg08714121
ANXA5;ANXA5	NM_001154;NM_001154	cg08715877F	5'UTR;1stExon	cg08715877
C20orf79	NM_178483	cg08716736R	TSS1500	cg08716736
SMPD4;SMPD4;SMPD4;S	NM_017951;NR_033232;NR	cg08722115F	Body;Body;Body;Body;	cg08722115
OBSCN;OBSCN	NM_052843;NM_001098623	cg08723571F	Body;Body	cg08723571
		cg08728118R		cg08728118
SYNJ2	NM_003898	cg08731817R	Body	cg08731817
CBFA2T3	NM_005187	cg08732950F	Body	cg08732950
		cg08740240F		cg08740240
ST5	NM_005418	cg08740309F	5'UTR	cg08740309
DHX15	NM_001358	cg08741531F	Body	cg08741531
		cg08741921R		cg08741921
		cg08742360R		cg08742360
BEND6	NM_152731	cg08745451F	Body	cg08745451
WWOX	NM_016373	cg08748098R	Body	cg08748098
STARD10	NM_006645	cg08749455R	5'UTR	cg08749455
HSF2BP	NM_007031	cg08753227R	Body	cg08753227
DTWD2	NM_173666	cg08755283F	1stExon	cg08755283
		cg08755622R		cg08755622
		cg08759742F		cg08759742
TIAL1;TIAL1	NM_001033925;NM_003252	cg08761324F	TSS1500;TSS1500	cg08761324
		cg08763617R		cg08763617
IGSF9B	NM_014987	cg08765940F	Body	cg08765940
		cg08767686F		cg08767686
		cg08767715F		cg08767715
TMEM175	NM_032326	cg08769212F	5'UTR	cg08769212
TAPBP;TAPBP;TAPBP	NM_172209;NM_003190;NM_003190	cg08770771R	Body;Body;Body	cg08770771
		cg08772949R		cg08772949
		cg08773876F		cg08773876
TFPI;TFPI	NM_006287;NM_001032281	cg08778148F	5'UTR;5'UTR	cg08778148
FAT3	NM_001008781	cg08778805R	Body	cg08778805
HIST1H3I	NM_003533	cg08782481R	1stExon	cg08782481
		cg08783514R		cg08783514
		cg08786064R		cg08786064
		cg08789741F		cg08789741
		cg08790036R		cg08790036
		cg08790269F		cg08790269
HTRA3	NM_053044	cg08791953R	3'UTR	cg08791953
		cg08792976R		cg08792976
FBXL13;FBXL13	NM_145032;NM_001111038	cg08798349F	Body;Body	cg08798349
		cg08803783F		cg08803783
		cg08806468R		cg08806468
RASAL2;LOC100302401;	NM_170692;NR_027982;NM_001098623	cg08808367F	5'UTR;TSS200;1stExon	cg08808367



KIF5C;MIR1978	NM_004522;NR_031742	cg08808720R	Body;TSS1500	cg08808720
CLCN7;CLCN7	NM_001287;NM_001114331	cg08810397R	Body;Body	cg08810397
S1PR5;S1PR5	NM_001166215;NM_030760	cg08814849F	Body;Body	cg08814849
MAP3K3;MAP3K3	NM_002401;NM_203351	cg08815352R	TSS1500;TSS1500	cg08815352
C17orf96;C17orf96	NM_001130677;NM_001130	cg08815745F	1stExon;3'UTR	cg08815745
SHROOM2	NM_001649	cg08819482F	Body	cg08819482
		cg08822136R		cg08822136
NEDD9	NM_001142393	cg08822625F	5'UTR	cg08822625
TBC1D16	NM_019020	cg08823837R	Body	cg08823837
		cg08825075R		cg08825075
RAB11FIP3;RAB11FIP3	NM_014700;NM_001142272	cg08830105R	Body;TSS1500	cg08830105
HSPBAP1;DIRC2	NM_024610;NM_032839	cg08830818R	TSS1500;1stExon	cg08830818
SP8;SP8	NM_198956;NM_182700	cg08831002R	5'UTR;Body	cg08831002
CATSPER2;CATSPER2;CAN	NM_054020;NM_172097;NM_1	cg08831455R	TSS1500;TSS1500;TSS1	cg08831455
SEPT13	NR_024271	cg08834691F	TSS200	cg08834691
LARP4B	NM_015155	cg08836481F	Body	cg08836481
		cg08836825R		cg08836825
SQSTM1;SQSTM1;MGAT	NM_001142298;NM_001142	cg08836954R	5'UTR;5'UTR;TSS1500	cg08836954
		cg08839376F		cg08839376
		cg08839808F		cg08839808
SHC2	NM_012435	cg08840018R	Body	cg08840018
CYBA	NM_000101	cg08843517F	TSS200	cg08843517
PTPRE	NM_006504	cg08844974F	5'UTR	cg08844974
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg08846558R	Body;Body	cg08846558
HFE2;HFE2;HFE2;HFE2	NM_202004;NM_145277;NM_1	cg08847140R	Body;Body;Body;Body	cg08847140
		cg08848343R		cg08848343
		cg08850124R		cg08850124
TMC8	NM_152468	cg08852879F	Body	cg08852879
		cg08852943R		cg08852943
DRD3;DRD3	NM_000796;NM_033663	cg08852963R	Body;Body	cg08852963
EIF3A	NM_003750	cg08854170F	Body	cg08854170
CSN1S2B	NR_003721	cg08855551R	TSS1500	cg08855551
VPS53;VPS53	NM_018289;NM_001128159	cg08856378R	Body;Body	cg08856378
BEND7;BEND7	NM_152751;NM_001100912	cg08857108F	Body;Body	cg08857108
GSTM4;GSTM4;GSTM4	NM_147148;NM_000850;NR_1	cg08859447F	TSS1500;TSS1500;TSS1	cg08859447
		cg08861434R		cg08861434
TBC1D8	NM_001102426	cg08862717F	Body	cg08862717
ATP5G2;ATP5G2	NM_001002031;NM_005176	cg08865588R	Body;Body	cg08865588
APP;APP;APP;APP;APP	NM_001136130;NM_201414	cg08866780R	TSS1500;TSS1500;TSS1	cg08866780
HRNBP3	NM_001082575	cg08866991R	Body	cg08866991
ENOX2;ENOX2	NM_006375;NM_182314	cg08867267R	5'UTR;5'UTR	cg08867267
		cg08867667F		cg08867667
		cg08868423F		cg08868423
SIGIRR;SIGIRR;SIGIRR	NM_001135053;NM_001135	cg08869273R	5'UTR;5'UTR;5'UTR	cg08869273
ZNF763	NM_001012753	cg08869571R	Body	cg08869571
MRPS5	NM_031902	cg08871239R	TSS1500	cg08871239
TTC22;TTC22	NM_001114108;NM_017904	cg08872579F	Body;Body	cg08872579
PPP1R2P1	NR_027771	cg08873792R	Body	cg08873792
IFNGR2	NM_005534	cg08874470R	Body	cg08874470
		cg08875433F		cg08875433
ASB1	NM_001040445	cg08876085R	3'UTR	cg08876085
CHRAC1;CHRAC1;CHRAN	NM_017444;NR_023360;NM_1	cg08877624F	1stExon;Body;5'UTR	cg08877624
FAM149B1;ECD;ECD;EC	NM_173348;NM_007265;NM_1	cg08879241R	1stExon;TSS200;TSS20	cg08879241
		cg08882084F		cg08882084

MPZL1;MPZL1;MPZL1	NM_003953;NM_001146191	cg08882650R cg08883213R	1stExon; 1stExon; 1stExon	cg08882650 cg08883213
STAC2	NM_198993	cg08884363R	Body	cg08884363
ACOT7;ACOT7;ACOT7;ANM_181864;NM_181865;NM		cg08886676F	Body;Body;Body;Body	cg08886676
ESRP2	NM_024939	cg08886823R	TSS1500	cg08886823
FAM73A	NM_198549	cg08891229F	Body	cg08891229
HOMER3;HOMER3;HOMNR_027297;NM_004838;NM		cg08894891F	Body;Body;Body;Body;	cg08894891
COL28A1	NM_001037763	cg08897010R	Body	cg08897010
ITFG3	NM_032039	cg08899291F cg08900821R	5'UTR	cg08899291 cg08900821
MAD1L1;MAD1L1;MAD1NM_003550;NM_001013837		cg08901151R	Body;Body;Body	cg08901151
SLC1A6	NM_005071	cg08901242F cg08901901F cg08903970F	1stExon	cg08901242 cg08901901 cg08903970
SLC9A3	NM_004174	cg08904373F	Body	cg08904373
SLC9A3	NM_004174	cg08909608R	Body	cg08909608
SNTG1	NM_018967	cg08909914F	5'UTR	cg08909914
IL7	NM_000880	cg08910705R	Body	cg08910705
C10orf129	NM_207321	cg08913530F	Body	cg08913530
OR6K3	NM_001005327	cg08918576R	TSS1500	cg08918576
TLL1	NM_012464	cg08923494F	Body	cg08923494
IGFBP7	NM_001553	cg08924554F	TSS1500	cg08924554
TSNARE1	NM_145003	cg08929713R	5'UTR	cg08929713
OR12D2;OR12D2	NM_013936;NM_013936	cg08930944F	5'UTR; 1stExon	cg08930944
TCIRG1;TCIRG1	NM_006053;NM_006019	cg08932343R	Body;Body	cg08932343
DENND1C	NM_024898	cg08936307R	TSS200	cg08936307
SNIP1	NM_024700	cg08938061F	TSS200	cg08938061
NDRG2;NDRG2;NDRG2;NM_201539;NM_201535;NM		cg08939481F	TSS1500;TSS1500;TSS1500	cg08939481
C11orf49;C11orf49;C11orf49;NM_001003677;NM_001003		cg08941576R	TSS1500;TSS1500;TSS1500	cg08941576
NHP2;NHP2	NM_017838;NM_001034833	cg08942342F	Body;Body	cg08942342
LPCAT1	NM_024830	cg08943467R	Body	cg08943467
RPP38;C10orf111;RPP38;CNM_183005;NM_153244;NM		cg08944318F	TSS200; 1stExon; TSS200	cg08944318
CMIP	NM_198390	cg08946161R	Body	cg08946161
TACC3	NM_006342	cg08947915F	Body	cg08947915
BRD1	NM_014577	cg08948528F	Body	cg08948528
OTX1	NM_014562	cg08949862F cg08949924F	TSS1500	cg08949862 cg08949924
SH2B2	NM_020979	cg08952306F	3'UTR	cg08952306
MCCD1	NM_001011700	cg08954646R	TSS1500	cg08954646
RPS10	NM_001014	cg08961047F	TSS1500	cg08961047
NLK	NM_016231	cg08965262F	Body	cg08965262
MIR891A	NR_030581	cg08967287R cg08967632F	TSS1500	cg08967287 cg08967632
FAM38A	NM_001142864	cg08968329R	Body	cg08968329
SEPX1	NM_016332	cg08968603F	TSS1500	cg08968603
PTPRO;PTPRO	NM_002848;NM_030667	cg08969549F	Body;Body	cg08969549
SPTBN2	NM_006946	cg08971859R cg08972582R cg08975529R	TSS200	cg08971859 cg08972582 cg08975529
TCERG1L	NM_174937	cg08975834F	Body	cg08975834
TBL1XR1	NM_024665	cg08977130R	TSS200	cg08977130
RARRES1;RARRES1	NM_206963;NM_002888	cg08977270R cg08980198R	TSS1500;TSS1500	cg08977270 cg08980198
GDPD4	NM_182833	cg08980355F	3'UTR	cg08980355

CLUAP1;CLUAP1	NM_015041;NM_024793	cg08983429R	Body;Body	cg08983429
CCL4	NM_002984	cg08984900R	TSS1500	cg08984900
MGC45800	NR_027107	cg08985979F	Body	cg08985979
		cg08986840R		cg08986840
		cg08987560F		cg08987560
CCDC59;C12orf26;CCDC5	NR_033192;NM_032230;NM	cg08987606R	Body;TSS200;1stExon	cg08987606
CLINT1	NM_014666	cg08988323R	Body	cg08988323
RPH3AL	NM_006987	cg08988609R	TSS1500	cg08988609
C13orf35	NM_207440	cg08990474F	3'UTR	cg08990474
CACNA1G;CACNA1G;CANM	198384;NM_198379;NM	cg08990514F	Body;Body;Body;Body;	cg08990514
SEL1L3	NM_015187	cg08993103F	Body	cg08993103
C3orf21	NM_152531	cg08994763R	Body	cg08994763
		cg08995327F		cg08995327
CPAMD8	NM_015692	cg08995662F	TSS200	cg08995662
		cg08996709R		cg08996709
GNAS;GNAS;GNAS;GNA	NM_001077490;NM_000516	cg08997444R	3'UTR;TSS1500;Body;T	cg08997444
ZNF749	NM_001023561	cg08997445F	Body	cg08997445
SGK2;SGK2	NM_016276;NM_170693	cg08999124F	TSS1500;5'UTR	cg08999124
PABPN1L	NM_001080487	cg08999742F	TSS200	cg08999742
CDYL	NR_026590	cg08999962R	Body	cg08999962
		cg09003326R		cg09003326
CLIP2;CLIP2	NM_032421;NM_003388	cg09005159R	Body;Body	cg09005159
PPM1L	NM_139245	cg09007331F	Body	cg09007331
YPEL2	NM_001005404	cg09008896F	5'UTR	cg09008896
BRE;BRE;BRE;BRE;BRE	NM_199192;NM_199193;NM	cg09009506F	Body;Body;Body;Body;B	cg09009506
NCRNA00164;MIR663B	NR_027020;NR_031608	cg09011231F	TSS200;TSS1500	cg09011231
LOC151534;LBX2	NR_024606;NM_001009812	cg09011732F	Body;TSS200	cg09011732
		cg09012411R		cg09012411
SEC14L1;SEC14L1;SEC14	NM_001143999;NM_003003	cg09013599F	Body;Body;Body;Body;	cg09013599
F10	NM_000504	cg09014132R	Body	cg09014132
		cg09017235F		cg09017235
IL12RB2	NM_001559	cg09018107R	Body	cg09018107
		cg09018429F		cg09018429
NOTCH4	NM_004557	cg09018483R	Body	cg09018483
TRPV1;TRPV1;TRPV1;TR	NM_080704;NM_018727;NM	cg09019347R	Body;Body;Body;Body	cg09019347
		cg09020181R		cg09020181
EXOC6B	NM_015189	cg09023965R	Body	cg09023965
		cg09028316R		cg09028316
HSF4;HSF4;FBXL8	NM_001040667;NM_001538	cg09030672R	TSS200;TSS200;Body	cg09030672
PDCD1	NM_005018	cg09031938R	Body	cg09031938
		cg09048334R		cg09048334
		cg09048404R		cg09048404
CDKAL1	NM_017774	cg09048823R	Body	cg09048823
MOBKL3;MOBKL3;MOB	NM_199482;NM_015387;NM	cg09050313F	5'UTR;TSS200;TSS200	cg09050313
SLC38A2	NM_018976	cg09050775R	Body	cg09050775
		cg09050860R		cg09050860
APOL2;APOL2;APOL2	NM_030882;NM_030882;NM	cg09051904R	1stExon;5'UTR;5'UTR	cg09051904
CUGBP2	NM_001025077	cg09052548R	1stExon	cg09052548
		cg09052628F		cg09052628
NDUFA5	NM_005000	cg09053611F	Body	cg09053611
SLC20A2	NM_006749	cg09056639F	Body	cg09056639
PSIP1;PSIP1;PSIP1	NM_021144;NM_033222;NM	cg09060090R	1stExon;Body;Body	cg09060090
HADHB;HADHA	NM_000183;NM_000182	cg09060316F	TSS200;1stExon	cg09060316
MIB2;MIB2;MIB2;MIB2;M	NM_001170687;NM_001170	cg09061216R	Body;Body;Body;Body;	cg09061216

VWA5B2	NM_138345	cg09065654F	TSS200	cg09065654
HECW1	NM_015052	cg09067990F	Body	cg09067990
		cg09069203R		cg09069203
FAM65A	NM_024519	cg09069694R	5'UTR	cg09069694
		cg09070846F		cg09070846
		cg09071280F		cg09071280
		cg09075114F		cg09075114
		cg09075525R		cg09075525
		cg09076334F		cg09076334
		cg09077862F		cg09077862
ZNF679	NM_153363	cg09079168R	Body	cg09079168
ATMIN	NM_015251	cg09080729F	1stExon	cg09080729
PPARGC1A	NM_013261	cg09082664R	Body	cg09082664
		cg09083736F		cg09083736
		cg09087103R		cg09087103
		cg09088406F		cg09088406
THBS2	NM_003247	cg09091918R	Body	cg09091918
CSNK1D;CSNK1D	NM_001893;NM_139062	cg09095232F	Body;Body	cg09095232
		cg09102762F		cg09102762
		cg09103598F		cg09103598
C10orf125;C10orf125	NM_001098483;NM_198472	cg09105657R	TSS1500;TSS1500	cg09105657
ZNF302;ZNF302	NM_001012320;NM_018443	cg09106556R	TSS1500;TSS1500	cg09106556
PDE6A	NM_000440	cg09109411R	Body	cg09109411
GPR56;GPR56;GPR56;GPR56	NM_001145773;NM_001145	cg09109520R	5'UTR;5'UTR;5'UTR;5'UTR	cg09109520
ARHGAP12	NM_018287	cg09110292R	5'UTR	cg09110292
STK24	NM_001032296	cg09110502F	Body	cg09110502
		cg09112388R		cg09112388
		cg09113046F		cg09113046
		cg09115837R		cg09115837
		cg09116580F		cg09116580
		cg09121152F		cg09121152
		cg09122660F		cg09122660
		cg09127044R		cg09127044
SLC44A4	NM_025257	cg09130091R	Body	cg09130091
		cg09130658F		cg09130658
KIAA1609	NM_020947	cg09132256F	5'UTR	cg09132256
GIMAP7	NM_153236	cg09132388R	5'UTR	cg09132388
LOC388796;SNORA71D;LNR_015366;NR_003018;NR_003018	NR_003018;NR_003018	cg09132763R	TSS200;TSS1500;TSS200	cg09132763
DBNL;DBNL;DBNL;DBNL	NM_001122956;NM_001122	cg09138430R	1stExon;5'UTR;1stExon;	cg09138430
FLNA;FLNA	NM_001110556;NM_001456	cg09143059F	Body;Body	cg09143059
		cg09148630F		cg09148630
ATP1A2	NM_000702	cg09152490F	Body	cg09152490
SLC44A4	NM_025257	cg09153713R	Body	cg09153713
		cg09156542F		cg09156542
GRAMD2	NM_001012642	cg09157272R	Body	cg09157272
PAFAH1B1;PAFAH1B1	NM_000430;NM_000430	cg09157431R	1stExon;5'UTR	cg09157431
TRADD;FBXL8	NM_003789;NM_018378	cg09158826F	TSS1500;5'UTR	cg09158826
		cg09160211F		cg09160211
TRPV4;TRPV4	NM_021625;NM_147204	cg09160789F	Body;Body	cg09160789
		cg09160912R		cg09160912
LRRC27;LRRC27;LRRC27	NM_001143757;NM_030626	cg09161266R	Body;Body;Body;Body;	cg09161266
HSD3B7;HSD3B7;HSD3B	NM_001142777;NM_025193	cg09162137R	TSS1500;TSS1500;TSS1500	cg09162137
		cg09163516R		cg09163516
PRDM9	NM_020227	cg09166973F	TSS200	cg09166973

		cg09168272R		cg09168272
		cg09169356F		cg09169356
P11	NM_006025	cg09169413F	3'UTR	cg09169413
ODZ2	NM_001122679	cg09171112F	TSS1500	cg09171112
GABRA5;GABRA5	NM_001165037;NM_000810	cg09171565F	Body;Body	cg09171565
NCF2;NCF2	NM_001127651;NM_000433	cg09173681R	Body;Body	cg09173681
THSD1;THSD1	NM_199263;NM_018676	cg09174741R	TSS1500;TSS1500	cg09174741
HEPACAM	NM_152722	cg09176023F	Body	cg09176023
BNC1	NM_001717	cg09180848F	TSS1500	cg09180848
GAL3ST1	NM_004861	cg09180877F	TSS1500	cg09180877
C21orf91;C21orf91;C21orf91	NM_017447;NM_001100421	cg09181738R	Body;Body;Body	cg09181738
GLRX2;GLRX2	NM_016066;NM_197962	cg09182724F	TSS1500;TSS1500	cg09182724
TET1	NM_030625	cg09183181R	5'UTR	cg09183181
		cg09184979F		cg09184979
ANKRD54;MIR658	NM_138797;NR_030395	cg09189978R	TSS1500;TSS1500	cg09189978
NTN1	NM_004822	cg09191142R	Body	cg09191142
PRO1768;FOXN3	NR_024620;NM_001085471	cg09196146R	TSS200;5'UTR	cg09196146
IFI27L1;IFI27L1	NM_206949;NM_145249	cg09197288F	5'UTR;5'UTR	cg09197288
		cg09198968R		cg09198968
DSE;DSE;DSE	NM_013352;NM_001080976	cg09199072R	1stExon;5'UTR;5'UTR	cg09199072
FRAT2	NM_012083	cg09199317F	TSS1500	cg09199317
SMPD3	NM_018667	cg09202227R	TSS1500	cg09202227
NLRP6	NM_138329	cg09205751R	TSS200	cg09205751
NRXN3	NM_004796	cg09209257F	5'UTR	cg09209257
GABARAPL3	NR_028287	cg09212610F	Body	cg09212610
PIP4K2A	NM_005028	cg09216670F	Body	cg09216670
DPF3	NM_012074	cg09218076R	Body	cg09218076
IL17RE;IL17RE;IL17RE	NM_153481;NM_153480;NM_153480	cg09218250F	TSS1500;TSS1500;TSS1500	cg09218250
TMEM189;TMEM189;TMEM189	NM_199129;NR_027889;NM_00220050R	cg09220050R	TSS1500;TSS1500;TSS1500	cg09220050
		cg09222269R		cg09222269
SLC4A1AP;SLC4A1AP;SUNM_018158;NM_018158;NM_018158	cg09223071R	cg09223071R	5'UTR;1stExon;1stExon;	cg09223071
		cg09226290F		cg09226290
		cg09226900R		cg09226900
RTN1;RTN1	NM_021136;NM_206857	cg09227765F	Body;1stExon	cg09227765
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg09230014F	Body;Body;Body	cg09230014
RPS6KA1;RPS6KA1	NM_001006665;NM_002953	cg09231555F	TSS1500;Body	cg09231555
		cg09233886R		cg09233886
		cg09237562F		cg09237562
		cg09238992F		cg09238992
		cg09239639R		cg09239639
ZFP106	NM_022473	cg09240555R	TSS1500	cg09240555
LAMA2;LAMA2	NM_001079823;NM_000426	cg09241097F	Body;Body	cg09241097
		cg09241928F		cg09241928
TRNT1	NM_182916	cg09242721F	TSS200	cg09242721
		cg09242747R		cg09242747
		cg09247235R		cg09247235
MKL2	NM_014048	cg09248007F	TSS1500	cg09248007
AGRN	NM_198576	cg09248054F	Body	cg09248054
CCDC121;CCDC121;GPN	NM_024584;NM_001142683	cg09248284F	1stExon;TSS200;Body;5	cg09248284
GABRB1	NM_000812	cg09248887R	Body	cg09248887
TMEM51;TMEM51;TMEM51	NM_001136218;NM_018022	cg09249173R	5'UTR;5'UTR;5'UTR;5'UTR	cg09249173
MGRN1;MGRN1;MGRN1	NM_015246;NM_001142291	cg09250423R	Body;Body;Body;Body	cg09250423
CTPS	NM_001905	cg09256082R	Body	cg09256082
CD82;CD82;CD82;CD82	NM_002231;NM_001024844	cg09256617R	5'UTR;1stExon;5'UTR;1	cg09256617

JOSD1	NM_014876	cg09256964F	TSS200	cg09256964
ELF3;ELF3	NM_004433;NM_001114309	cg09260951R	3'UTR;3'UTR	cg09260951
APOL2;APOL2;APOL2	NM_030882;NM_030882;NM_030882	cg09262245F	1stExon;5'UTR;5'UTR	cg09262245
GPX6	NM_182701	cg09266008R	Body	cg09266008
PRDM11	NM_020229	cg09270003F	Body	cg09270003
		cg09272217R		cg09272217
		cg09273483R		cg09273483
ACOT6	NM_001037162	cg09274104R	TSS1500	cg09274104
KIAA1026;KIAA1026;KIAA1026	NM_201628;NM_001017999	cg09274167F	Body;5'UTR;5'UTR;Body	cg09274167
		cg09275704F		cg09275704
NPHP4	NM_015102	cg09275986R	Body	cg09275986
		cg09281220F		cg09281220
SPAM1;SPAM1	NM_153189;NM_003117	cg09282654F	TSS1500;TSS1500	cg09282654
RAB39	NM_017516	cg09284707F	TSS200	cg09284707
		cg09285683R		cg09285683
		cg09286409R		cg09286409
CNKSR3	NM_173515	cg09288789R	TSS1500	cg09288789
COCH;COCH	NM_001135058;NM_004086	cg09290941F	TSS200;TSS200	cg09290941
		cg09292069F		cg09292069
XPNPEP1;XPNPEP1;XPNPEP1	NR_030724;NM_001167604;	cg09292873F	TSS200;TSS200;TSS200	cg09292873
		cg09294660R		cg09294660
		cg09295542F		cg09295542
FAM66D	NR_027425	cg09296089R	Body	cg09296089
LOC92973	NR_024006	cg09298920R	TSS1500	cg09298920
		cg09299668F		cg09299668
DCUN1D2	NM_001014283	cg09300604R	3'UTR	cg09300604
TMEM200A	NM_052913	cg09301462F	5'UTR	cg09301462
		cg09302922F		cg09302922
		cg09303159R		cg09303159
TAPBP;TAPBP	NM_172209;NM_003190	cg09303778R	Body;Body	cg09303778
		cg09316772R		cg09316772
GSDMD	NM_001166237	cg09317036F	TSS200	cg09317036
TMEM165	NM_018475	cg09317128F	Body	cg09317128
TRIM2;TRIM2	NM_015271;NM_001130067	cg09317774F	Body;5'UTR	cg09317774
		cg09319020F		cg09319020
		cg09320731R		cg09320731
ST6GALNAC2;ST6GALNAC2;ST6GALNAC2	NM_006456;NM_006456	cg09321082F	5'UTR;1stExon	cg09321082
		cg09321430R		cg09321430
		cg09322386F		cg09322386
CACNB2;CACNB2;CACNB2;CACNB2	NM_201571;NM_201593;NM_201593;NM_201593	cg09324225R	Body;Body;Body;Body;	cg09324225
FGFR1;FGFR1;FGFR1;FGFR1	NM_023110;NM_023111;NM_023111;NM_023111	cg09324698R	5'UTR;1stExon;1stExon;1stExon;	cg09324698
RBM19;RBM19;RBM19;RBM19	NM_001146698;NM_001146698;NM_001146698;NM_001146698	cg09324706R	Body;Body;Body	cg09324706
POLE2	NM_002692	cg09325174F	TSS200	cg09325174
MIPOL1	NM_138731	cg09325695F	Body	cg09325695
TEX14;TEX14	NM_031272;NM_198393	cg09327586F	3'UTR;3'UTR	cg09327586
		cg09328046F		cg09328046
ZNF680;ZNF680;ZNF680;ZNF680	NM_001130022;NM_178558	cg09328466R	1stExon;5'UTR;1stExon;1stExon;	cg09328466
PNPT1	NM_033109	cg09329097R	Body	cg09329097
YPEL3;YPEL3	NM_031477;NM_001145524	cg09331206F	TSS1500;TSS1500	cg09331206
LOC100129637	NR_024488	cg09331545R	Body	cg09331545
JARID2	NM_004973	cg09331986R	Body	cg09331986
		cg09331995F		cg09331995
C17orf55	NM_178519	cg09332171F	3'UTR	cg09332171
		cg09334382F		cg09334382

VSTM2L	NM_080607	cg09337248F	Body	cg09337248
THSD7B	NM_001080427	cg09344219F	Body	cg09344219
		cg09344229R		cg09344229
		cg09352815R		cg09352815
		cg09352908R		cg09352908
GPR39	NM_001508	cg09353251F	Body	cg09353251
		cg09354838F		cg09354838
		cg09364178R		cg09364178
		cg09364835R		cg09364835
CALR	NM_004343	cg09367967F	Body	cg09367967
FAM131B;FAM131B	NM_014690;N I_001031690	cg09371456R	TSS200;Body	cg09371456
NR2F6	NM_005234	cg09371559R	Body	cg09371559
NEK7	NM_133494	cg09372617F	5'UTR	cg09372617
SYT15;SYT15	NM_031912;NM_181519	cg09373037F	TSS200;TSS200	cg09373037
		cg09376008R		cg09376008
FGF8;FGF8;FGF8;FGF8;F	NM_033163;NM_006119;NM_09376854R	cg09377915R	1stExon;1stExon;5'UTR;	cg09376854
		cg09377915R		cg09377915
APOC1	NM_001645	cg09379229R	TSS1500	cg09379229
NUB1	NM_016118	cg09380357F	5'UTR	cg09380357
ZNF814	NM_001144989	cg09382092F	TSS1500	cg09382092
VIPR1	NM_004624	cg09384400R	Body	cg09384400
CX3CL1	NM_002996	cg09385815R	Body	cg09385815
PHF23	NM_024297	cg09386139R	TSS1500	cg09386139
		cg09386265F		cg09386265
SCRIB;SCRIB	NM_015356;NM_182706	cg09387867R	Body;Body	cg09387867
		cg09387992R		cg09387992
NCK2;NCK2	NM_003581;NM_001004722	cg09391405R	5'UTR;5'UTR	cg09391405
TSSC1	NM_003310	cg09392046R	Body	cg09392046
SELI;GPR113	NM_033505;NM_153835	cg09392819R	TSS200;Body	cg09392819
		cg09394391R		cg09394391
KIAA0415	NM_014855	cg09394666R	Body	cg09394666
		cg09395427F		cg09395427
ANGPT1	NM_001146	cg09396217F	TSS200	cg09396217
CPEB1;CPEB1;CPEB1;CP	NM_001079535;NM_001079	cg09400152R	Body;Body;Body;Body	cg09400152
PIRT	NM_001101387	cg09401661F	5'UTR	cg09401661
		cg09404131F		cg09404131
THAP4;THAP4	NM_015963;NM_001164356	cg09405340R	Body;Body	cg09405340
DNER	NM_139072	cg09406846F	Body	cg09406846
		cg09408023R		cg09408023
		cg09409500F		cg09409500
		cg09411922F		cg09411922
LMF1	NM_022773	cg09412087R	Body	cg09412087
KIAA1211	NM_020722	cg09412808R	Body	cg09412808
C17orf62;C17orf62;C17orf	NM_001033046;NM_001100	cg09419005R	5'UTR;5'UTR;5'UTR	cg09419005
UNC84A;UNC84A	NM_025154;NM_001130965	cg09423610F	Body;Body	cg09423610
AHCYL2;AHCYL2	NM_001130720;NM_015328	cg09424566F	Body;Body	cg09424566
C13orf35	NM_207440	cg09425168R	TSS1500	cg09425168
GAMT;GAMT	NM_000156;NM_138924	cg09428024R	TSS200;TSS200	cg09428024
EIF4E3;EIF4E3;EIF4E3;EIF	NM_001134651;NM_001134	cg09429735F	Body;5'UTR;5'UTR;5'U	cg09429735
		cg09430954R		cg09430954
TCF3;TCF3	NM_003200;NM_001136139	cg09432758R	Body;Body	cg09432758
		cg09433794R		cg09433794
ZNF813	NM_001004301	cg09435109F	TSS1500	cg09435109
TYMP;TYMP;TYMP	NM_001113755;NM_001953	cg09435190F	5'UTR;5'UTR;TSS200	cg09435190

AP1M2	NM_005498	cg09439054F cg09439867F	Body	cg09439054 cg09439867
SYNM;SYNM	NM_015286;NM_145728	cg09444070F	Body;Body	cg09444070
NFATC2IP	NM_032815	cg09445799F	Body	cg09445799
ABCC2	NM_000392	cg09448875F cg09449069R	TSS200	cg09448875 cg09449069
RPL23AP82;RABL2B;RABNR_026981;NM_001003789;		cg09456760F	Body;3'UTR;3'UTR;3'UTR	cg09456760
ZNF385A;ZNF385A;ZNF3	NM_001130968;NM_0011130	cg09457245R	Body;Body;TSS1500	cg09457245
PRR16	NM_016644	cg09459548F cg09463155R	Body	cg09459548 cg09463155
CLDN11	NM_005602	cg09468207F	3'UTR	cg09468207
PDE6B;PDE6B;PDE6B	NM_000283;NM_001145291	cg09468777F	Body;Body;Body	cg09468777
SYNGAP1	NM_006772	cg09471527R	Body	cg09471527
PI4KA;SNAP29	NM_058004;NM_004782	cg09473847F	TSS200;TSS1500	cg09473847
CHI3L2;CHI3L2	NM_001025197;NM_004000	cg09474476R	TSS1500;TSS1500	cg09474476
VIPR1	NM_004624	cg09475741F cg09476092F	Body	cg09475741 cg09476092
ZNF469	NM_001127464	cg09481927F cg09488200R	Body	cg09481927 cg09488200
SRRM5;SRRM5;ZNF428	NM_001145641;NM_001145	cg09488512R cg09489567R	1stExon;5'UTR;Body	cg09488512 cg09489567
ACVR1;ACVR1	NM_001105;NM_001111067	cg09499849R	5'UTR;5'UTR	cg09499849
SAPS3;SAPS3;SAPS3;SAPNM_001164161;NM_001164		cg09500207R	5'UTR;5'UTR;5'UTR;5'UTR	cg09500207
DCTN5;PALB2	NM_032486;NM_024675	cg09500317R	TSS1500;Body	cg09500317
C5orf62	NM_032947	cg09501687R cg09502177R	Body	cg09501687 cg09502177
TMEM71;TMEM71	NM_001145153;NM_144649	cg09502207F	TSS1500;TSS1500	cg09502207
ZFPM1	NM_153813	cg09502865R cg09504104F	Body	cg09502865 cg09504104
STK24;STK24	NM_003576;NM_001032296	cg09504131R	TSS1500;Body	cg09504131
UGT1A10;UGT1A6;UGT1	NM_019075;NM_205862;NM_001032296	cg09505117F	Body;Body;Body;Body;	cg09505117
HCG18;HCG18	NR_024052;NR_024053	cg09510269F	Body;Body	cg09510269
CASZ1;CASZ1	NM_001079843;NM_017766	cg09511724F	5'UTR;5'UTR	cg09511724
TRPM4	NM_017636	cg09511741R	Body	cg09511741
ZNF354B	NM_058230	cg09513169F cg09516898F cg09518906R	5'UTR	cg09513169 cg09516898 cg09518906
LETM1	NM_012318	cg09526122F	Body	cg09526122
C6orf48;SNORD48;C6orf4	NM_001040437;NR_002745;	cg09526512F cg09527453R	TSS1500;TSS1500;TSS1500	cg09526512 cg09527453
SH3BP2;SH3BP2;SH3BP2	NM_001145856;NM_0011122	cg09529065F	3'UTR;3'UTR;3'UTR;3'UTR	cg09529065
SBK2	NM_001101401	cg09529323R	Body	cg09529323
MMP2	NM_004530	cg09530163R cg09532502F	TSS1500	cg09530163 cg09532502
EPS8L2	NM_022772	cg09532898R	Body	cg09532898
ZFPM1	NM_153813	cg09535526R	Body	cg09535526
SLIT3	NM_003062	cg09536336F cg09537956F cg09538725F	Body	cg09536336 cg09537956 cg09538725
CSMD1	NM_033225	cg09539824F	Body	cg09539824
RUNX2;RUNX2;RUNX2	NM_004348;NM_001015051	cg09541256F	TSS1500;Body;Body	cg09541256
C8orf76	NM_032847	cg09542250R	Body	cg09542250
LOC285830;LOC285830	NR_026972;NR_026973	cg09545764F	Body;Body	cg09545764
SH3TC2	NM_024577	cg09548638F	TSS1500	cg09548638



CCND1	NM_053056	cg09551996F cg09552983F	TSS1500	cg09551996 cg09552983
SORBS2;SORBS2;SORBS2	NM_001145670;NM_001145	cg09555153F	Body;Body;Body;Body;	cg09555153
MCF2L;MCF2L	NM_001112732;NM_024979	cg09556940F	Body;Body	cg09556940
ARMC5;ARMC5	NM_024742;NM_001105247	cg09559324F	Body;Body	cg09559324
HMHB1	NM_021182	cg09560590F	TSS200	cg09560590
TGM3	NM_003245	cg09561663R	TSS200	cg09561663
SGTA	NM_003021	cg09563151F	5'UTR	cg09563151
MAP2K2	NM_030662	cg09563731R cg09563922F cg09564990R	3'UTR	cg09563731 cg09563922 cg09564990
DGAT1	NM_012079	cg09565397F	Body	cg09565397
TCF25	NM_014972	cg09569215F	Body	cg09569215
C22orf15	NM_182520	cg09569990F	TSS1500	cg09569990
ATP6V1C2;ATP6V1C2	NM_144583;NM_001039362	cg09570573F	Body;Body	cg09570573
LOC731789	NR_026794	cg09571345R	TSS200	cg09571345
CAPN2	NM_001146068	cg09575442R	TSS1500	cg09575442
TRIM26	NM_003449	cg09579704F	Body	cg09579704
RPH3AL	NM_006987	cg09580249R cg09581201R	Body	cg09580249 cg09581201
ARHGEF10	NM_014629	cg09582000F	Body	cg09582000
CHERP	NM_006387	cg09582219R	Body	cg09582219
RAB38	NM_022337	cg09583036F	3'UTR	cg09583036
SSBP3;SSBP3;SSBP3	NM_001009955;NM_018070	cg09586583F cg09590812F	Body;Body;Body	cg09586583 cg09590812
MRGPRE	NM_001039165	cg09591542R cg09593727F	Body	cg09591542 cg09593727
HIGD1C	NM_001109619	cg09597516R cg09597666R	Body	cg09597516 cg09597666
DPP4;DPP4	NM_001935;NM_001935	cg09601770R cg09602138F cg09602251F	1stExon;5'UTR	cg09601770 cg09602138 cg09602251
NUP50;NUP50;NUP50	NM_153645;NM_007172;NM_007172	cg09605111R	TSS1500;5'UTR;1stExon	cg09605111
FAM91A1	NM_144963	cg09605254F	TSS200	cg09605254
C6orf108;C6orf108	NM_006443;NM_199184	cg09606840R	TSS1500;TSS1500	cg09606840
NCRNA00171	NR_026751	cg09607178F	Body	cg09607178
C11orf80	NM_024650	cg09608008F	Body	cg09608008
ZNF487	NR_026693	cg09608028R	Body	cg09608028
CLEC5A	NM_013252	cg09608424R	Body	cg09608424
PNMA5;PNMA5;PNMA5	NM_052926;NM_001103151	cg09608545R cg09611064F	5'UTR;5'UTR;5'UTR	cg09608545 cg09611064
RICS	NM_001142685	cg09612912F	Body	cg09612912
TMEM106B;TMEM106B	NM_001134232;NM_018374	cg09613507F cg09614506R cg09614653R	Body;Body	cg09613507 cg09614506 cg09614653
CCDC88B	NM_032251	cg09619347R	TSS200	cg09619347
HLA-E	NM_005516	cg09620840F	Body	cg09620840
GRIN2A;GRIN2A;GRIN2A	NM_001134407;NM_000833	cg09622330F	Body;Body;Body	cg09622330
ABCC5;ABCC5;ABCC5;A	NM_001023587;NM_005688	cg09623457F	1stExon;1stExon;5'UTR;	cg09623457
AUP1;DQX1	NM_181575;NM_133637	cg09623986F	3'UTR;TSS1500	cg09623986
NCF4;NCF4	NM_013416;NM_000631	cg09624565F	TSS200;TSS200	cg09624565
TRIM15	NM_033229	cg09624858R	Body	cg09624858
FAM126A	NM_032581	cg09627607F	Body	cg09627607
SNORD115-15;SNORD115	NR_003307;NR_003313;NR_003313	cg09628216F	Body;Body;TSS1500	cg09628216

KCNS1	NM_002251	cg09628707R	5'UTR	cg09628707
LTC4S	NM_145867	cg09629657R	TSS200	cg09629657
LSM12	NM_152344	cg09629954R	Body	cg09629954
INCENP;INCENP	NM_020238;NM_001040694	cg09630109R	Body;Body	cg09630109
ABCA3	NM_001089	cg09632163F	Body	cg09632163
AHRR	NM_020731	cg09634134R	Body	cg09634134
REERE;REERE	NM_012102;NM_001042681	cg09635768F	Body;Body	cg09635768
PAPLN	NM_173462	cg09636214F	Body	cg09636214
HAL	NM_002108	cg09636302F	Body	cg09636302
WDR69	NM_178821	cg09638264R	TSS1500	cg09638264
		cg09640135R		cg09640135
		cg09640425F		cg09640425
GDPD1;GDPD1;GDPD1	NM_182569;NM_001165993	cg09640718F	Body;Body;Body	cg09640718
RPH3AL	NM_006987	cg09641537F	Body	cg09641537
		cg09642857F		cg09642857
PPY	NM_002722	cg09643404R	TSS200	cg09643404
KCNMA1;KCNMA1;KCN	NM_001161353;NM_001161	cg09645291F	Body;Body;Body;Body	cg09645291
		cg09647375F		cg09647375
ARL6IP6;ARL6IP6;PRPF4	NR_024526;NM_152522;NM	cg09650414R	TSS200;TSS200;TSS150	cg09650414
NXN	NM_022463	cg09651648R	Body	cg09651648
		cg09652509F		cg09652509
MIR1253	NR_031654	cg09652807R	TSS1500	cg09652807
		cg09654796F		cg09654796
NEDD4L;NEDD4L	NM_001144967;NM_015277	cg09657097R	TSS200;TSS200	cg09657097
MAPK14;MAPK14;MAPK	NM_139013;NM_001315;NM	cg09658066F	TSS200;TSS200;TSS200	cg09658066
GRIN2A;GRIN2A;GRIN2A	NM_001134407;NM_000833	cg09664455F	Body;Body;Body	cg09664455
		cg09664554R		cg09664554
		cg09667001R		cg09667001
		cg09667806R		cg09667806
PRM1	NM_002761	cg09674048F	1stExon	cg09674048
ZNF385A;ZNF385A;ZNF3	NM_001130968;NM_001130	cg09676376R	Body;Body;TSS1500	cg09676376
AQP1	NM_198098	cg09676669R	TSS200	cg09676669
CCDC13	NM_144719	cg09677287F	TSS1500	cg09677287
COL4A2	NM_001846	cg09680131R	Body	cg09680131
		cg09681706R		cg09681706
PLXNA1	NM_032242	cg09684147R	Body	cg09684147
		cg09684233F		cg09684233
		cg09690561R		cg09690561
LHPP;LHPP	NM_022126;NM_001167880	cg09690597R	Body;Body	cg09690597
UBC	NM_021009	cg09692125R	Body	cg09692125
KRT19	NM_002276	cg09692449F	Body	cg09692449
		cg09692670R		cg09692670
		cg09693961R		cg09693961
MTUS2	NM_001033602	cg09694280R	Body	cg09694280
		cg09696932F		cg09696932
		cg09699830R		cg09699830
PDE8A;PDE8A	NM_173454;NM_002605	cg09704544R	Body;Body	cg09704544
ATP10B	NM_025153	cg09705798F	Body	cg09705798
VIPR2	NM_003382	cg09706777F	Body	cg09706777
ATF7;ATF7	NM_001130060;NM_006856	cg09709951F	5'UTR;5'UTR	cg09709951
PART1;PART1;PDE4D;PANR	028508;NR_024617;NM	cg09712066R	TSS200;Body;5'UTR;TS	cg09712066
GTF2A1L;LHCGR	NM_172196;NM_000233	cg09712962F	Body;Body	cg09712962
DGKB;DGKB	NM_145695;NM_004080	cg09713269R	Body;Body	cg09713269
ACAT2	NM_005891	cg09718295F	TSS200	cg09718295

		cg09722546R		cg09722546
PLXNA4;PLXNA4;PLXNA	NM_020911;NM_001105543	cg09725546R	TSS200;TSS200;5'UTR	cg09725546
		cg09725686R		cg09725686
		cg09725939F		cg09725939
		cg09728457F		cg09728457
ZC3H3	NM_015117	cg09732364R	Body	cg09732364
		cg09734837R		cg09734837
RNF166	NM_178841	cg09735908F	Body	cg09735908
LTA;LTA;LTA	NM_000595;NM_001159740	cg09736959F	1stExon;5'UTR;5'UTR	cg09736959
NQO2;NQO2	NM_000904;NM_000904	cg09741240R	1stExon;5'UTR	cg09741240
A4GALT	NM_017436	cg09744051F	5'UTR	cg09744051
ADAM19	NM_033274	cg09744448R	Body	cg09744448
		cg09745812R		cg09745812
		cg09746604R		cg09746604
EBF3	NM_001005463	cg09746817R	Body	cg09746817
		cg09755397R		cg09755397
		cg09757158F		cg09757158
		cg09757196R		cg09757196
MYO1B;MYO1B;MYO1B	NM_001130158;NM_012223	cg09760210F	3'UTR;3'UTR;3'UTR	cg09760210
		cg09761367F		cg09761367
ZFH3;ZFH3	NM_006885;NM_001164766	cg09761690R	3'UTR;3'UTR	cg09761690
C11orf80	NM_024650	cg09763120F	Body	cg09763120
		cg09765074F		cg09765074
KLHDC4	NM_017566	cg09765815F	Body	cg09765815
ATP6V0A2	NM_012463	cg09767076F	Body	cg09767076
ZNF530	NM_020880	cg09767616F	Body	cg09767616
		cg09770068R		cg09770068
		cg09773647R		cg09773647
NEURL4;NEURL4	NM_032442;NM_001005408	cg09777416F	Body;Body	cg09777416
ANP32A	NM_006305	cg09777506R	Body	cg09777506
RAI1	NM_030665	cg09777657R	5'UTR	cg09777657
CKAP5;CKAP5	NM_014756;NM_001008938	cg09779044F	5'UTR;5'UTR	cg09779044
SGTA	NM_003021	cg09779924R	3'UTR	cg09779924
ADAR	NM_001025107	cg09786420F	5'UTR	cg09786420
FAM47A	NM_203408	cg09788161R	1stExon	cg09788161
KLHL17	NM_198317	cg09789536R	Body	cg09789536
FAM86A;FAM86A	NM_201598;NM_201400	cg09790134R	Body;Body	cg09790134
TNRC18	NM_001080495	cg09794469F	Body	cg09794469
EVPL	NM_001988	cg09795027F	Body	cg09795027
PTF1A	NM_178161	cg09795588F	TSS1500	cg09795588
		cg09797340R		cg09797340
RCC2;RCC2	NM_001136204;NM_018715	cg09797837F	3'UTR;3'UTR	cg09797837
CUX2	NM_015267	cg09798033F	Body	cg09798033
MGC45800	NR_027107	cg09802066F	Body	cg09802066
HSPA1L	NM_005527	cg09803287F	Body	cg09803287
		cg09806629F		cg09806629
WWP2;WWP2	NM_199423;NM_007014	cg09806966R	3'UTR;Body	cg09806966
METTL9;METTL9	NM_001077180;NM_016025	cg09808606R	Body;Body	cg09808606
KIAA1244	NM_020340	cg09808864F	TSS1500	cg09808864
		cg09813145F		cg09813145
		cg09814448R		cg09814448
PAX9	NM_006194	cg09814975F	Body	cg09814975
		cg09816282R		cg09816282
IQCE;IQCE	NM_152558;NM_001100390	cg09817283F	3'UTR;3'UTR	cg09817283

FASN	NM_004104	cg09819958R	Body	cg09819958
C1orf58;AIDA;C1orf58	NM_144695;NM_022831;NM_022831	cg09820183F	5'UTR;TSS1500;1stExon	cg09820183
WDR20	NM_181291	cg09826395F	Body	cg09826395
ST8SIA6	NM_001004470	cg09827122R	Body	cg09827122
PRDM15;PRDM15	NM_022115;NM_001040424	cg09828504F	Body;Body	cg09828504
		cg09829013R		cg09829013
MPPE1;MPPE1	NM_023075;NM_023075	cg09830678R	1stExon;5'UTR	cg09830678
FAM173A	NM_023933	cg09830866R	Body	cg09830866
BCL7B	NM_001707	cg09834234F	TSS200	cg09834234
VHL;VHL	NM_198156;NM_000551	cg09836251R	Body;Body	cg09836251
VWF	NM_000552	cg09836827F	Body	cg09836827
		cg09838962F		cg09838962
		cg09839592F		cg09839592
MPV17L;MPV17L;MPV17	NM_173803;NM_173803;NM_173803	cg09844907R	1stExon;5'UTR;1stExon	cg09844907
PDE1A;PDE1A	NM_001003683;NM_005019	cg09845785R	TSS200;TSS1500	cg09845785
GLI3	NM_000168	cg09847820R	Body	cg09847820
		cg09852107R		cg09852107
		cg09853839R		cg09853839
SOX8	NM_014587	cg09854626R	TSS1500	cg09854626
UBAC2;FKSG29;UBAC2;UBAC2	NM_001144072;NR_024013	cg09855140F	Body;Body;Body;Body	cg09855140
SLC12A4;SLC12A4;SLC12A4	NM_001145963;NM_001145	cg09856797R	Body;Body;Body;Body;Body	cg09856797
		cg09857651R		cg09857651
MSLN;MSLN	NM_005823;NM_013404	cg09857761F	Body;Body	cg09857761
RNASEH1;RNASEH1	NM_002936;NM_002936	cg09859293R	1stExon;5'UTR	cg09859293
NBL1;NBL1	NM_182744;NM_005380	cg09860653F	Body;TSS200	cg09860653
		cg09860935R		cg09860935
PASK	NM_015148	cg09863028F	Body	cg09863028
SAV1	NM_021818	cg09863266R	Body	cg09863266
BEGAIN;BEGAIN	NM_001159531;NM_020836	cg09864715R	Body;Body	cg09864715
UNG	NM_080911	cg09868274F	TSS1500	cg09868274
ASPRV1	NM_152792	cg09868768F	1stExon	cg09868768
		cg09871679F		cg09871679
C7orf49;C7orf49;C7orf49	NM_024033;NR_024185;NR_024185	cg09872104F	1stExon;Body;Body;5'UTR	cg09872104
PPHLN1;PPHLN1	NM_001143787;NM_016488	cg09874195F	Body;Body	cg09874195
PRKAR1B;PRKAR1B;PRKAR1B	NM_001164759;NM_001164	cg09877215F	Body;Body;Body;Body;Body	cg09877215
MAPK8IP2;MAPK8IP2	NM_016431;NM_012324	cg09877744F	Body;Body	cg09877744
LRRC36;LRRC36	NM_018296;NM_001161575	cg09879805R	Body;TSS200	cg09879805
UBP1;UBP1;UBP1	NM_014517;NM_001128161	cg09883947R	Body;Body;Body	cg09883947
TPPP	NM_007030	cg09884756F	Body	cg09884756
PCNXL2	NM_014801	cg09887634R	Body	cg09887634
RERE;RERE	NM_012102;NM_001042681	cg09888229F	Body;Body	cg09888229
SH2D2A;NTRK1;SH2D2A	NM_001161442;NM_001007	cg09888330F	Body;Body;TSS200;Body	cg09888330
		cg09890891R		cg09890891
GNGT1	NM_021955	cg09892357R	TSS1500	cg09892357
PSD3;PSD3	NM_206909;NM_015310	cg09894683F	Body;Body	cg09894683
SDHB	NM_003000	cg09895189F	Body	cg09895189
TSNAX-DISC1;DISC1;TSNAX	NR_028394;NM_001012959	cg09895514R	Body;Body;Body;Body;Body	cg09895514
VAX1	NM_199131	cg09895590F	3'UTR	cg09895590
		cg09897501F		cg09897501
MSH6	NM_000179	cg09898070F	TSS1500	cg09898070
		cg09899868R		cg09899868
		cg09900527F		cg09900527
		cg09901100F		cg09901100
LOC100132831	NR_027761	cg09902786F	TSS1500	cg09902786

		cg09904091R		cg09904091
KLC2;KLC2;KLC2;KLC2	NM_001134776;NM_001134	cg09904907R	TSS1500;TSS1500;TSS1500	cg09904907
		cg09907183F		cg09907183
VOPP1	NM_030796	cg09909284R	Body	cg09909284
FAR1	NM_032228	cg09909671F	TSS1500	cg09909671
CBFA2T3	NM_005187	cg09910674F	Body	cg09910674
ADAD1;ADAD1;ADAD1;ADAD1	NM_139243;NM_001159285	cg09912005R	5'UTR;1stExon;5'UTR;1stExon	cg09912005
CUX2	NM_015267	cg09916651R	Body	cg09916651
LASS5	NM_147190	cg09918394R	3'UTR	cg09918394
		cg09919901R		cg09919901
		cg09920228F		cg09920228
		cg09920855F		cg09920855
LOC401052;LOC401052	NM_001008737;NM_001008	cg09926380F	5'UTR;1stExon	cg09926380
FANCI;FANCI	NM_001113378;NM_018193	cg09926562F	Body;Body	cg09926562
RWDD2B	NM_016940	cg09928474R	TSS1500	cg09928474
		cg09929382R		cg09929382
RFX6	NM_173560	cg09930033F	Body	cg09930033
		cg09930328F		cg09930328
AMIGO2;AMIGO2	NM_001143668;NM_181847	cg09933058R	TSS200;TSS200	cg09933058
FIGNL2;FIGNL2	NM_001013690;NM_001013	cg09934692F	1stExon;3'UTR	cg09934692
C7orf31	NM_138811	cg09935766R	TSS200	cg09935766
		cg09938273F		cg09938273
RRAGC	NM_022157	cg09938328F	TSS1500	cg09938328
		cg09938466R		cg09938466
STK3	NM_006281	cg09941453R	Body	cg09941453
RRAD;RRAD	NM_001128850;NM_004165	cg09942293R	Body;Body	cg09942293
PPAT	NM_002703	cg09943401F	Body	cg09943401
DGCR8	NM_022720	cg09945120F	TSS1500	cg09945120
SPN;SPN	NM_001030288;NM_003123	cg09946623R	TSS1500;TSS1500	cg09946623
		cg09948179R		cg09948179
		cg09950208F		cg09950208
NCRNA00171	NR_026751	cg09954161R	Body	cg09954161
SLC7A5P2	NR_002594	cg09961550F	TSS200	cg09961550
ZFPM1	NM_153813	cg09962809F	Body	cg09962809
NTRK3;NTRK3	NM_001012338;NM_002530	cg09963892R	Body;Body	cg09963892
		cg09964012F		cg09964012
SERPINA1;SERPINA1;SERPINA1	NM_001127701;NM_001127	cg09968361R	5'UTR;5'UTR;5'UTR;5'UTR	cg09968361
TBCD	NM_005993	cg09969462R	Body	cg09969462
VPS53;VPS53	NM_018289;NM_001128159	cg09969776F	Body;Body	cg09969776
BANP;BANP	NM_017869;NM_079837	cg09975659R	Body;Body	cg09975659
RPTOR;RPTOR	NM_001163034;NM_020761	cg09977718F	Body;Body	cg09977718
		cg09982174R		cg09982174
MYO18B	NM_032608	cg09982918R	TSS1500	cg09982918
CYP26B1	NM_019885	cg09984469R	Body	cg09984469
		cg09984674R		cg09984674
FAM150B	NM_001002919	cg09985832R	TSS1500	cg09985832
NT5E	NM_002526	cg09989847F	3'UTR	cg09989847
STK24	NM_001032296	cg09989939F	TSS1500	cg09989939
ZFR2	NM_015174	cg09999510F	Body	cg09999510
DNA2	NM_001080449	cg10001172R	Body	cg10001172
LAMB4	NM_007356	cg10002668F	Body	cg10002668
NOM1	NM_138400	cg10004280F	3'UTR	cg10004280
SLC24A4;SLC24A4;SLC24A4	NM_153647;NM_153648;NM_153649	cg10004481F	Body;Body;Body	cg10004481
C19orf21	NM_173481	cg10008710R	Body	cg10008710

GNAS;GNAS;GNAS;GNA	NM_001077490;NM_016592	cg10011623F	3'UTR;3'UTR;TSS1500;	cg10011623
FARS2	NM_006567	cg10012448R	Body	cg10012448
INPP5A	NM_005539	cg10013455R	Body	cg10013455
MT1H	NM_005951	cg10014293F	Body	cg10014293
ACTN2	NM_001103	cg10014470R	TSS1500	cg10014470
		cg10015572F		cg10015572
		cg10016770R		cg10016770
SLC44A4	NM_025257	cg10017105F	Body	cg10017105
SETD1A	NM_014712	cg10020520R	Body	cg10020520
CACNG5;CACNG5	NM_145811;NM_014404	cg10020934F	1stExon;1stExon	cg10020934
TRIT1	NM_017646	cg10024100R	TSS1500	cg10024100
DNAJC1	NM_022365	cg10024446F	Body	cg10024446
		cg10027639F		cg10027639
ZNF423	NM_015069	cg10030162R	Body	cg10030162
PPP1R9A;PPP1R9A;PPP1	NM_001166161;NM_001166	cg10030580R	TSS1500;5'UTR;TSS1500	cg10030580
		cg10034572R		cg10034572
		cg10036421R		cg10036421
		cg10039988R		cg10039988
		cg10044184R		cg10044184
TBCD	NM_005993	cg10047762R	Body	cg10047762
		cg10051312F		cg10051312
		cg10052504R		cg10052504
RECQL5	NM_004259	cg10053073R	3'UTR	cg10053073
HSPA1L	NM_005527	cg10054630F	Body	cg10054630
		cg10054984F		cg10054984
FHAD1	NM_052929	cg10055277R	Body	cg10055277
NDUFB11;NDUFB11;ND	NR_024234;NR_024235;NM	cg10058598F	Body;Body;3'UTR;3'UT	cg10058598
TNFRSF25;TNFRSF25;TN	NM_148965;NM_148970;NM	cg10059687R	1stExon;1stExon;1stExo	cg10059687
HSD17B13;HSD17B13	NM_001136230;NM_178135	cg10062316F	TSS1500;TSS1500	cg10062316
ERLIN2;ERLIN2;ERLIN2;	NM_007175;NM_007175;NM	cg10063512R	1stExon;5'UTR;TSS200;	cg10063512
PIK3R3;PIK3R3	NM_001114172;NM_003629	cg10064897F	5'UTR;TSS200	cg10064897
RIOK1;RIOK1	NM_153005;NM_031480	cg10066132R	Body;Body	cg10066132
PAX8;PAX8;PAX8;PAX8;	NM_013952;NM_013992;NM	cg10068464R	TSS1500;TSS1500;TSS1500	cg10068464
		cg10069644R		cg10069644
		cg10069809F		cg10069809
COPS5;COPS5	NM_006837;NM_006837	cg10073129F	5'UTR;1stExon	cg10073129
		cg10075464R		cg10075464
DUSP6;DUSP6	NM_001946;NM_022652	cg10077746F	Body;Body	cg10077746
		cg10079867F		cg10079867
PMS1;PMS1;PMS1	NM_001128143;NM_001128	cg10081115R	Body;Body;Body	cg10081115
CTSG	NM_001911	cg10082165R	Body	cg10082165
TSSC1	NM_003310	cg10083149R	Body	cg10083149
CLEC16A	NM_015226	cg10083889R	Body	cg10083889
ENPP7	NM_178543	cg10085305F	1stExon	cg10085305
		cg10086080R		cg10086080
		cg10088331R		cg10088331
ISL2	NM_145805	cg10088491R	3'UTR	cg10088491
WWC2	NM_024949	cg10090058R	Body	cg10090058
EPHA10	NM_001099439	cg10090792F	Body	cg10090792
OBSL1	NM_015311	cg10091487F	Body	cg10091487
SNX27	NM_030918	cg10092158R	1stExon	cg10092158
		cg10093103R		cg10093103
		cg10095517F		cg10095517
SNX25	NM_031953	cg10100266R	5'UTR	cg10100266

PMEPA1;PMEPA1;PMEPANM_199171;NM_199170;NM_g10100887F		cg10102037F	5'UTR;5'UTR;Body;Body	cg10100887
		cg10102037F		cg10102037
		cg10103635F		cg10103635
		cg10103906R		cg10103906
NOTCH2;NOTCH2	NM_024408;NM_024408	cg10104810F	1stExon;5'UTR	cg10104810
RRM1	NM_001033	cg10113107F	Body	cg10113107
LOC121838	NR_026955	cg10115564F	TSS1500	cg10115564
C1orf216	NM_152374	cg10117719R	3'UTR	cg10117719
ACN9	NM_020186	cg10125443F	1stExon	cg10125443
FLJ22536	NR_015410	cg10126181F	Body	cg10126181
KIF26A	NM_015656	cg10127037F	Body	cg10127037
SLC25A13;SLC25A13;SLCNM_014251;NM_001160210		cg10131227F	Body;Body;Body	cg10131227
		cg10131604F		cg10131604
KIAA0232;KIAA0232	NM_014743;NM_001100590	cg10132348R	TSS200;TSS200	cg10132348
ZBTB22;TAPBP;TAPBP;T	NM_005453;NM_003190;NM_g10134527F	cg10135178F	Body;TSS1500;TSS1500	cg10134527
		cg10135178F		cg10135178
ATXN7;ATXN7	NM_000333;NM_001128149	cg10136077F	5'UTR;5'UTR	cg10136077
SNORD32B	NR_003049	cg10139151F	TSS1500	cg10139151
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_g10141789F	cg10141789F	Body;Body;Body	cg10141789
KLHL24;KLHL24	NM_017644;NM_017644	cg10143433R	5'UTR;1stExon	cg10143433
ST18	NM_014682	cg10144863R	5'UTR	cg10144863
CHST12	NM_018641	cg10145585R	TSS200	cg10145585
PC;PC;PC	NM_022172;NM_000920;NM_g10151248R	cg10160614F	Body;Body;Body	cg10151248
		cg10160614F		cg10160614
PRTFDC1	NM_020200	cg10161685R	Body	cg10161685
ATN1;ATN1	NM_001007026;NM_001940	cg10162209R	5'UTR;5'UTR	cg10162209
ANKRD11	NM_013275	cg10164272R	5'UTR	cg10164272
		cg10165209F		cg10165209
		cg10168419R		cg10168419
RWDD2A;PGM3	NM_033411;NM_015599	cg10169971F	TSS200;TSS200	cg10169971
LRP1	NM_002332	cg10170944F	Body	cg10170944
RAI1	NM_030665	cg10171253R	Body	cg10171253
		cg10175753F		cg10175753
		cg10178865F		cg10178865
GABARAP;GABARAP	NM_007278;NM_007278	cg10182541R	1stExon;5'UTR	cg10182541
		cg10188698F		cg10188698
DIO3OS	NR_002770	cg10191005R	TSS1500	cg10191005
		cg10192949F		cg10192949
C6orf103	NM_024694	cg10197432F	TSS200	cg10197432
CHD8;SNORD8;CHD8	NM_020920;NR_002916;NM_g10198565F	cg10198565F	Body;TSS1500;Body	cg10198565
SCD5;SCD5	NM_001037582;NM_024906	cg10198664R	Body;Body	cg10198664
POTEF	NM_001099771	cg10204214F	TSS200	cg10204214
ZNF219;ZNF219;ZNF219	NM_001101672;NM_016423	cg10204629F	Body;Body;Body	cg10204629
C7orf20	NM_015949	cg10205151F	Body	cg10205151
ZNF649	NM_023074	cg10206391F	3'UTR	cg10206391
SCNN1G	NM_001039	cg10206931F	Body	cg10206931
		cg10207928R		cg10207928
		cg10208132F		cg10208132
		cg10209300R		cg10209300
		cg10210086R		cg10210086
COL9A2	NM_001852	cg10210510F	Body	cg10210510
BTBD7;BTBD7;KIAA140	NM_018167;NM_001002860	cg10212537R	TSS200;TSS200;TSS200	cg10212537
MYH16	NR_002147	cg10213114R	Body	cg10213114
		cg10214991F		cg10214991

ZNF816A	NM_001031665	cg10218524F	TSS1500	cg10218524
TMIGD2;TMIGD2	NM_144615;NM_001169126	cg10222701F	TSS1500;TSS1500	cg10222701
		cg10223982R		cg10223982
		cg10227368R		cg10227368
SYT11	NM_152280	cg10231603R	TSS200	cg10231603
		cg10233830R		cg10233830
MUC4;MUC4;MUC4	NM_018406;NM_138297;NM_001167880	cg10237854F	TSS1500;TSS1500;TSS1500	cg10237854
LHPP;LHPP	NM_022126;NM_001167880	cg10238445R	Body;Body	cg10238445
FAM12A	NM_006683	cg10239638F	TSS1500	cg10239638
		cg10240356R		cg10240356
DDX5	NM_004396	cg10244222R	Body	cg10244222
FAM82A1;FAM82A1;FAM82A1	NM_001170793;NM_001170793;NM_001170793	cg10246038F	3'UTR;3'UTR;Body;3'UTR	cg10246038
GALR2	NM_003857	cg10247252F	1stExon	cg10247252
ADAM15;ADAM15;ADAM15	NM_207194;NM_207196;NM_207196	cg10249703F	Body;Body;Body;Body;Body	cg10249703
LCK;LCK;LCK	NM_005356;NM_001042771	cg10250177R	5'UTR;1stExon;5'UTR	cg10250177
LRFN4;PC;PC;PC	NM_024036;NM_022172;NM_022172	cg10256234F	TSS1500;Body;Body;Body	cg10256234
F2RL3;F2RL3	NM_003950;NM_003950	cg10256336F	1stExon;5'UTR	cg10256336
ST5	NM_005418	cg10256839R	5'UTR	cg10256839
HDAC4	NM_006037	cg10258395R	Body	cg10258395
ICA1L	NM_138468	cg10258931F	3'UTR	cg10258931
		cg10258962R		cg10258962
TRERF1	NM_033502	cg10260072R	TSS1500	cg10260072
FEZ1;FEZ1	NM_005103;NM_022549	cg10261191F	5'UTR;5'UTR	cg10261191
LOC100133315	NR_029192	cg10261226F	Body	cg10261226
VAC14	NM_018052	cg10262662F	3'UTR	cg10262662
MIR518C	NR_030199	cg10262955F	Body	cg10262955
		cg10268509R		cg10268509
PRDM15;PRDM15	NM_022115;NM_001040424	cg10270055F	Body;Body	cg10270055
OTX1	NM_014562	cg10271192F	5'UTR	cg10271192
		cg10272901R		cg10272901
TUBB4;MIR220B	NM_006087;NR_030585	cg10274682R	Body;Body	cg10274682
		cg10276674F		cg10276674
CHRM2;CHRM2;CHRM2;CHRM2	NM_001006631;NM_000739	cg10276834R	5'UTR;5'UTR;5'UTR;5'UTR	cg10276834
		cg10280308F		cg10280308
LMF1	NM_022773	cg10281704F	Body	cg10281704
		cg10287321R		cg10287321
CDH24;CDH24	NM_022478;NM_144985	cg10290767R	TSS1500;TSS1500	cg10290767
		cg10292510R		cg10292510
		cg10295858R		cg10295858
		cg10296027F		cg10296027
MSLN;MSLN	NM_005823;NM_013404	cg10296755F	TSS1500;TSS1500	cg10296755
VWF;VWF	NM_000552;NM_000552	cg10301695F	1stExon;5'UTR	cg10301695
C6orf105;C6orf105	NM_032744;NM_001143948	cg10301879R	Body;Body	cg10301879
		cg10302200F		cg10302200
TBCD	NM_005993	cg10304803F	Body	cg10304803
		cg10306028F		cg10306028
TBX2	NM_005994	cg10308654R	Body	cg10308654
		cg10308775R		cg10308775
		cg10310944F		cg10310944
SNORD89	NR_003070	cg10311315R	TSS200	cg10311315
TFPI;TFPI	NM_006287;NM_001032281	cg10312875R	5'UTR;5'UTR	cg10312875
MFSD2A;MFSD2A;MFSD2A	NM_032793;NM_032793;NM_032793	cg10313417R	5'UTR;1stExon;1stExon	cg10313417
LY9;LY9	NM_001033667;NM_002348	cg10316357F	Body;Body	cg10316357
		cg10316525F		cg10316525



KIAA0146	NM_001080394	cg10317162F	Body	cg10317162
UPP1;UPP1	NM_181597;NM_003364	cg10317717F	5'UTR;5'UTR	cg10317717
NAP1L4	NM_005969	cg10318313R	TSS1500	cg10318313
		cg10318744F		cg10318744
PLEC1;PLEC1;PLEC1;PLENM_201381;NM_201382;NM_201383		cg10319399F	Body;TSS200;Body;Body	cg10319399
PANK4	NM_018216	cg10321120R	Body	cg10321120
CCNY;CCNY	NM_145012;NM_181698	cg10321302F	Body;5'UTR	cg10321302
FLG	NM_002016	cg10321714R	Body	cg10321714
SH3BP2;SH3BP2	NM_001145855;NM_001122	cg10322254R	TSS1500;5'UTR	cg10322254
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM_130843	cg10322560R	Body;Body;Body	cg10322560
KIAA1217	NM_001098500	cg10325509R	5'UTR	cg10325509
NUDT9;NUDT9;NUDT9;NNM_198038;NM_024047;NM_024048		cg10326891F	1stExon;5'UTR;5'UTR;1	cg10326891
TSSC1	NM_003310	cg10328259R	Body	cg10328259
SLC25A15	NM_014252	cg10328297R	5'UTR	cg10328297
BCAP29;BCAP29;BCAP2	NM_018844;NR_027830;NM_018845	cg10328766R	TSS1500;TSS1500;TSS1500	cg10328766
		cg10330056F		cg10330056
CAMTA1	NM_015215	cg10331119R	Body	cg10331119
		cg10333400R		cg10333400
TECPR2;CINP	NM_014844;NM_032630	cg10335543F	TSS1500;Body	cg10335543
		cg10336578R		cg10336578
SLC4A2	NM_003040	cg10336600R	TSS200	cg10336600
		cg10337331F		cg10337331
C21orf34;C21orf34	NR_027790;NR_027791	cg10341719R	Body;TSS1500	cg10341719
GUCY1A2	NM_000855	cg10342490R	Body	cg10342490
		cg10349844R		cg10349844
		cg10351617F		cg10351617
C11orf54;TAF1D;C11orf54	NM_014039;NM_024116;NM_024117	cg10353388R	1stExon;TSS200;5'UTR	cg10353388
APCDD1L	NM_153360	cg10354244F	TSS200	cg10354244
		cg10356187R		cg10356187
CCDC77;CCDC77;CCDC7	NM_001130146;NM_001130	cg10358194F	TSS200;5'UTR;TSS200;	cg10358194
GOLT1B;RECQL;RECQL; NM_016072;NM_032941;NM_032942		cg10358780F	5'UTR;TSS200;TSS200;	cg10358780
		cg10362172F		cg10362172
RAG2;C11orf74	NM_000536;NM_138787	cg10364182R	5'UTR;TSS200	cg10364182
C2orf89	NM_001080824	cg10365657F	Body	cg10365657
		cg10368675F		cg10368675
CARS2	NM_024537	cg10372485F	Body	cg10372485
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM_130843	cg10374297R	Body;Body;Body	cg10374297
		cg10375870F		cg10375870
MYO1C;MYO1C;MYO1C	NM_033375;NM_001080779	cg10377629F	5'UTR;Body;Body	cg10377629
EPHB6	NM_004445	cg10378735R	5'UTR	cg10378735
FAM132A	NM_001014980	cg10378904F	Body	cg10378904
TBC1D1;PTTG2	NM_015173;NM_006607	cg10379653R	Body;1stExon	cg10379653
ZNF668	NM_024706	cg10380221R	Body	cg10380221
KANK2;KANK2	NM_001136191;NM_015493	cg10389930F	Body;Body	cg10389930
		cg10390536F		cg10390536
COL11A2;COL11A2;COL11A2	NM_080679;NM_080681;NM_080682	cg10390980R	Body;Body;Body	cg10390980
CLDN4	NM_001305	cg10393875R	TSS1500	cg10393875
		cg10395920F		cg10395920
ZHX2	NM_014943	cg10396491R	5'UTR	cg10396491
AGAP1;AGAP1	NM_014914;NM_001037131	cg10396701F	Body;Body	cg10396701
CUGBP2;CUGBP2;CUGBP2	NM_001025076;NM_006561	cg10398418F	Body;Body;Body;Body	cg10398418
		cg10399970R		cg10399970
		cg10400499F		cg10400499
		cg10403441F		cg10403441

		cg10410904R		cg10410904
		cg10410910R		cg10410910
		cg10414006F		cg10414006
RELL2;HDAC3;RELL2	NM_173828;NM_003883;NM_0014058R	cg10414058R	1stExon;TSS1500;Body	cg10414058
CSPG4	NM_001897	cg10415122F	Body	cg10415122
SIM1	NM_005068	cg10415616F	Body	cg10415616
IL21R;IL21R;IL21R	NM_021798;NM_181078;NM_0016668F	cg10416668F	TSS1500;5'UTR;5'UTR	cg10416668
LRP5	NM_002335	cg10420527F	Body	cg10420527
		cg10421808R		cg10421808
ZNF821;ATXN1L	NM_017530;NR_024612	cg10424330F	Body;Body	cg10424330
		cg10424751F		cg10424751
TTC8;TTC8;TTC8	NM_198309;NM_144596;NM_001425624F	cg10425624F	Body;Body;Body	cg10425624
		cg10429091F		cg10429091
ATP6V1E1;ATP6V1E1;ATNM_001039366;NM_001696	cg10430021F	cg10430021F	Body;Body;Body	cg10430021
R3HDM2	NM_014925	cg10430362F	3'UTR	cg10430362
AK5;AK5	NM_174858;NM_012093	cg10432364R	Body;Body	cg10432364
GIPC2	NM_017655	cg10433438F	Body	cg10433438
MYOF;MYOF	NM_133337;NM_013451	cg10435454R	Body;Body	cg10435454
LOC100192378	NR_024360	cg10435486F	Body	cg10435486
MDFIC;MDFIC;MDFIC	NM_001166345;NM_001166	cg10436410R	TSS1500;TSS1500;TSS1500	cg10436410
		cg10439941F		cg10439941
		cg10440447R		cg10440447
		cg10441661F		cg10441661
PCMTD1	NM_052937	cg10444530F	5'UTR	cg10444530
		cg10445708F		cg10445708
RPL31;RPL31;RPL31	NM_001099693;NM_001098	cg10446401F	Body;Body;Body	cg10446401
TMPRSS8	NR_026864	cg10448227F	TSS200	cg10448227
		cg10448692F		cg10448692
DHX16;DHX16	NM_001164239;NM_003587	cg10449894F	Body;Body	cg10449894
		cg10450692F		cg10450692
GPR77	NM_018485	cg10451565F	TSS1500	cg10451565
BTRC;BTRC	NM_003939;NM_033637	cg10455940R	Body;Body	cg10455940
SPNS2	NM_001124758	cg10457446R	TSS1500	cg10457446
DUT;DUT;DUT;DUT;DUT	NM_001025248;NM_001025	cg10457605R	5'UTR;1stExon;TSS1500	cg10457605
GNASAS;GNAS	NR_002785;NM_016592	cg10459054R	Body;TSS1500	cg10459054
RBM47	NM_001098634	cg10459087R	5'UTR	cg10459087
KLHDC4	NM_017566	cg10460813F	Body	cg10460813
SETD4;SETD4	NM_017438;NM_001007259	cg10463451F	5'UTR;TSS200	cg10463451
C3orf31	NM_138807	cg10468845R	TSS1500	cg10468845
MARCKS	NM_002356	cg10474881F	Body	cg10474881
RNF130	NM_018434	cg10475056R	Body	cg10475056
NOMO2;NOMO2	NM_001004060;NM_173614	cg10483393F	TSS200;TSS200	cg10483393
		cg10483660R		cg10483660
STOX1;STOX1;STOX1;STNM_001130162;NM_001130	cg10483817F	cg10483817F	5'UTR;Body;Body;Body	cg10483817
CIB1;C15orf58	NM_006384;NM_001013657	cg10485466R	TSS200;TSS200	cg10485466
ARHGEF12	NM_015313	cg10493270F	Body	cg10493270
BANP;BANP	NM_017869;NM_079837	cg10493736F	Body;Body	cg10493736
PROCA1	NM_152465	cg10495754R	TSS200	cg10495754
C14orf184;C14orf184	NM_001080113;NM_001080	cg10497871R	5'UTR;1stExon	cg10497871
TSNARE1	NM_145003	cg10498682R	Body	cg10498682
		cg10498814F		cg10498814
SH2B1;SH2B1;SH2B1;SH	NM_001145812;NM_001145	cg10498984F	TSS1500;TSS1500;TSS1500	cg10498984
DEFB4	NM_004942	cg10499879F	TSS1500	cg10499879
AXIN1;AXIN1	NM_003502;NM_181050	cg10500953R	Body;Body	cg10500953

		cg10502924F		cg10502924
		cg10503326R		cg10503326
TRIM36	NM_018700	cg10506070F	Body	cg10506070
		cg10507390R		cg10507390
CHRNA4	NM_000750	cg10508022R	Body	cg10508022
		cg10508058F		cg10508058
SH3BP2;SH3BP2	NM_001145855;NM_001122	cg10511758R	Body;5'UTR	cg10511758
TMEM212	NM_001164436	cg10512194R	TSS1500	cg10512194
		cg10512292F		cg10512292
SUPT16H;SUPT16H	NM_007192;NM_007192	cg10513480F	5'UTR;1stExon	cg10513480
ARHGEF10L;ARHGEF10	NM_001011722;NM_018125	cg10513862F	TSS1500;5'UTR	cg10513862
		cg10513943R		cg10513943
GRB7;GRB7	NM_005310;NM_00103002	cg10516146F	5'UTR;5'UTR	cg10516146
WNT5B;WNT5B	NM_030775;NM_032642	cg10518873R	Body;Body	cg10518873
ROBO4	NM_019055	cg10519465F	Body	cg10519465
		cg10521014R		cg10521014
CNNM2;CNNM2	NM_199076;NM_017649	cg10521431F	Body;Body	cg10521431
ZNF697	NM_001080470	cg10522587R	Body	cg10522587
		cg10523198F		cg10523198
PPM1H	NM_020700	cg10524576F	Body	cg10524576
UGDH	NM_003359	cg10524888R	TSS1500	cg10524888
SORCS2	NM_020777	cg10525642R	Body	cg10525642
ITGA4;ITGA4	NM_000885;NM_000885	cg10526659F	5'UTR;1stExon	cg10526659
		cg10531521R		cg10531521
		cg10533069R		cg10533069
ODF3B	NM_001014440	cg10534638R	TSS1500	cg10534638
EED;EED	NM_152991;NM_003797	cg10535675F	TSS1500;TSS1500	cg10535675
HAPLN1	NM_001884	cg10536076R	TSS1500	cg10536076
GPR39	NM_001508	cg10537176F	Body	cg10537176
		cg10537821F		cg10537821
		cg10538454F		cg10538454
		cg10539670F		cg10539670
BRWD1;BRWD1;BRWD1	NM_033656;NM_001007246	cg10542145F	Body;Body;Body	cg10542145
		cg10544839F		cg10544839
		cg10546210F		cg10546210
C7orf50;C7orf50;GPR146;	NM_001134395;NM_032350	cg10547025F	Body;Body;TSS1500;Bo	cg10547025
		cg10547893F		cg10547893
		cg10548669R		cg10548669
ACAA1;ACAA1;ACAA1	NR_024024;NM_001130410;	cg10548708F	Body;Body;Body	cg10548708
CRIM1	NM_016441	cg10550416F	3'UTR	cg10550416
		cg10550471F		cg10550471
ST13;XPNPEP3	NM_003932;NM_022098	cg10551016R	TSS1500;TSS200	cg10551016
		cg10551556F		cg10551556
KLHDC4	NM_017566	cg10552592F	Body	cg10552592
APOBEC3D	NM_152426	cg10555000F	Body	cg10555000
		cg10559742R		cg10559742
PI4KA	NM_058004	cg10568796R	5'UTR	cg10568796
		cg10571901R		cg10571901
PTPN22;PTPN22	NM_012411;NM_015967	cg10572465R	Body;Body	cg10572465
		cg10573136F		cg10573136
SH2D1A;SH2D1A;SH2D1A	NM_002351;NM_001114937	cg10573235F	5'UTR;1stExon;5'UTR;1	cg10573235
LMO4	NM_006769	cg10574861R	Body	cg10574861
ZNF438;ZNF438;ZNF438;	NM_001143768;NM_182755	cg10575075R	5'UTR;5'UTR;5'UTR;5'U	cg10575075
SEPT4;SEPT4;SEPT4;SEPT	NM_080415;NM_080416;NM	cg10575089R	Body;Body;5'UTR;1stEx	cg10575089

OPLAH	NM_017570	cg10578482R	Body	cg10578482
CSRP2	NM_001321	cg10582318F	TSS1500	cg10582318
		cg10582639R		cg10582639
CASZ1;CASZ1	NM_017766;NM_001079843	cg10582871F	Body;Body	cg10582871
		cg10585586F		cg10585586
PLXNA2	NM_025179	cg10587082R	Body	cg10587082
MAB21L1;MIR548F5;NBENM_005584;NR_031646;NMcg10587183R			1stExon;Body;Body;3'U	cg10587183
GYG1	NM_004130	cg10587218F	TSS200	cg10587218
SDHA	NM_004168	cg10591111R	Body	cg10591111
CPLX1	NM_006651	cg10591801R	Body	cg10591801
CAMK1D;CAMK1D	NM_020397;NM_153498	cg10598683F	Body;Body	cg10598683
		cg10598776F		cg10598776
HNRNPA0	NM_006805	cg10601968F	TSS200	cg10601968
		cg10602271R		cg10602271
UBR2	NM_015255	cg10605015R	Body	cg10605015
WNT4	NM_030761	cg10606730R	Body	cg10606730
		cg10607454R		cg10607454
		cg10608636R		cg10608636
C8orf12;FAM167A	NR_026814;NM_053279	cg10613815R	Body;Body	cg10613815
C7orf27	NM_152743	cg10616859R	Body	cg10616859
AGPAT1;AGPAT1	NM_006411;NM_032741	cg10620911R	5'UTR;5'UTR	cg10620911
TACC2;TACC2	NM_206862;NM_206861	cg10622068F	TSS200;TSS200	cg10622068
PHTF2;PHTF2;TMEM60	NM_001127360;NM_0011127	cg10624784F	TSS200;TSS200;TSS200	cg10624784
SLC13A4	NM_012450	cg10624823F	Body	cg10624823
NXN	NM_022463	cg10626391F	TSS200	cg10626391
C3	NM_000064	cg10628785F	Body	cg10628785
		cg10631544R		cg10631544
FLJ35220;LOC100294362;NM_173627;NR_029376;NMcg10632328R			Body;TSS200;Body;Bod	cg10632328
		cg10632966F		cg10632966
NKAIN3	NM_173688	cg10632971R	Body	cg10632971
		cg10634403R		cg10634403
		cg10635149F		cg10635149
		cg10635719R		cg10635719
SRP14	NM_003134	cg10636054R	Body	cg10636054
		cg10636760F		cg10636760
BAIAP2;FLJ90757;BAIAP NM_017450;NR_026857;NMcg10637425F			TSS1500;TSS200;TSS15	cg10637425
		cg10637688R		cg10637688
		cg10640830R		cg10640830
		cg10642644R		cg10642644
PRDM11	NM_020229	cg10646395F	Body	cg10646395
		cg10646962R		cg10646962
LAIR2;LAIR2	NM_002288;NM_021270	cg10648815R	TSS1500;TSS1500	cg10648815
PTH2R	NM_005048	cg10650753R	Body	cg10650753
DGKE	NM_003647	cg10654010F	TSS1500	cg10654010
		cg10656664R		cg10656664
ARL1	NM_001177	cg10656674R	TSS1500	cg10656674
HOXA11AS;HOXA11	NR_002795;NM_005523	cg10657141R	Body;TSS1500	cg10657141
ENTHD1	NM_152512	cg10658197R	TSS1500	cg10658197
		cg10658205R		cg10658205
GPR84	NM_020370	cg10668189R	Body	cg10668189
		cg10670787R		cg10670787
FARP1;FARP1	NM_001001715;NM_005766	cg10672164R	5'UTR;5'UTR	cg10672164
		cg10675797R		cg10675797
ADARB2	NM_018702	cg10677688R	Body	cg10677688

ABLIM1;ABLIM1;ABLIMNM_001003408;NM_001003	cg10680376F	Body;Body;Body	cg10680376
	cg10682560R		cg10682560
INPP5A	NM_005539	Body	cg10683576
PFN2;PFN2	NM_053024;NM_002628	TSS200;TSS200	cg10685336
GDF7	NM_182828	Body	cg10687131
ZNF488	NM_153034	TSS1500	cg10688514
CLCA4;CLCA4	NR_024602;NM_012128	Body;Body	cg10690677
WNT5B	NM_030775	TSS200	cg10696062
TFEB;TFEB	NM_001167827;NM_007162	5'UTR;5'UTR	cg10696677
FBXO16	NM_172366	Body	cg10699291
MYOM2	NM_003970	TSS1500	cg10700718
SLC13A2;SLC13A2;SLC1	NR_027384;NM_001145975;	TSS1500;TSS1500;TSS1500	cg10701168F
	cg10701168F		cg10701168
	cg10701253R		cg10701253
	cg10702418F		cg10702418
	cg10703141R		cg10703141
	cg10704137R		cg10704137
CRYAA	NM_000394	Body	cg10707964
CD200R1;CD200R1;CD20	NM_138939;NM_138940;NM_138941	Body;Body;Body;Body	cg10708271F
TMEM178;TMEM178	NM_152390;NM_001167959	TSS1500;TSS200	cg10708761R
PER1	NM_002616	TSS1500	cg10708955R
			cg10709925R
RARB;RARB	NM_000965;NM_016152	TSS1500;TSS200	cg10712623F
IFT140;TMEM204	NM_014714;NM_024600	Body;Body	cg10712835F
IP6K3;IP6K3;IP6K3;IP6K3	NM_054111;NM_054111;NM_054111;NM_054111	1stExon;5'UTR;1stExon;	cg10714061R
PLEKHA1	NM_001001974	TSS200	cg10717722R
KDM4B	NM_015015	Body	cg10717766R
PTENP1	NR_023917	Body	cg10720654R
XPNPEP3;ST13	NM_022098;NM_003932	TSS1500;TSS200	cg10722636R
CLIC6	NM_053277	1stExon	cg10722799R
SPPL2B;SPPL2B	NM_001077238;NM_152988	Body;Body	cg10723746F
			cg10728179R
			cg10729111F
			cg10730208F
KIR3DX1	NR_026716	TSS1500	cg10731960R
SORL1	NM_003105	Body	cg10746778R
TBL1XR1	NM_024665	5'UTR	cg10747185R
ATRNL1	NM_207303	Body	cg10747758R
ERC2	NM_015576	3'UTR	cg10753966R
SLC43A2	NM_152346	Body	cg10754697R
AKR1CL1	NR_027916	TSS200	cg10764388R
			cg10765171R
AAAS	NM_015665	TSS200	cg10765909F
TTC23;TTC23;TTC23;TTC23	NM_001040658;NM_001040	Body;Body;Body;Body;Body	cg10765992R
SFT2D1	NM_145169	Body	cg10768316F
FAM83E	NM_017708	TSS200	cg10772322F
			cg10773023R
NALCN	NM_052867	TSS200	cg10774877R
PCNX	NM_014982	Body	cg10776643R
PEX14	NM_004565	Body	cg10777461R
PRKD2;PRKD2;PRKD2;PRKD2	NM_001079880;NM_001079	Body;Body;Body;Body	cg10779826F
TSPAN14;TSPAN14	NM_001128309;NM_030927	TSS1500;TSS1500	cg10780367F
THBS2	NM_003247	Body	cg10784542R
			cg10786829F
			cg10789601R

B3GAT1;B3GAT1	NM_018644;NM_054025	cg10790526F	3'UTR;3'UTR	cg10790526
SFRP2	NM_003013	cg10790791R	TSS1500	cg10790791
ORAI2;ALKBH4;ORAI2	NM_032831;NM_017621;NM_017951	cg10795119R	3'UTR;3'UTR;3'UTR	cg10795119
PEX14	NM_004565	cg10797798R	Body	cg10797798
		cg10797804F		cg10797804
VPS13D;VPS13D	NM_018156;NM_015378	cg10798815R	3'UTR;3'UTR	cg10798815
DIP2C	NM_014974	cg10799249R	Body	cg10799249
SAMD12;SAMD12	NM_001101676;NM_207506	cg10800519R	Body;Body	cg10800519
PEX14	NM_004565	cg10801633R	Body	cg10801633
NEK4	NM_003157	cg10802521F	TSS200	cg10802521
OSBPL5;OSBPL5;OSBPL5	NM_020896;NM_001144063	cg10803034R	5'UTR;5'UTR;5'UTR	cg10803034
RNASE11	NM_145250	cg10805645F	5'UTR	cg10805645
		cg10806009F		cg10806009
LSM4	NM_012321	cg10808810F	Body	cg10808810
COL6A1	NM_001848	cg10809449R	Body	cg10809449
ASPSCR1	NM_024083	cg10814135R	TSS1500	cg10814135
CALHM2;CALHM2	NM_015916;NR_024552	cg10815165F	TSS200;TSS200	cg10815165
		cg10817408R		cg10817408
PHB2;PHB2;EMG1	NM_001144831;NM_007273	cg10818781R	TSS1500;TSS1500;Body	cg10818781
		cg10819274R		cg10819274
		cg10820262F		cg10820262
KDM4B	NM_015015	cg10821320F	Body	cg10821320
GGTLC1;GGTLC1	NM_178312;NM_178311	cg10822421R	3'UTR;3'UTR	cg10822421
SKA2;SKA2;MIR301A	NM_182620;NM_001100595	cg10822495F	Body;Body;Body	cg10822495
TINAGL1	NM_022164	cg10823804F	Body	cg10823804
		cg10824972R		cg10824972
		cg10825481F		cg10825481
RPF1	NM_025065	cg10827434R	1stExon	cg10827434
		cg10832417F		cg10832417
PTAFR;PTAFR;PTAFR;PTNM_001164723;NM_001164		cg10832476F	Body;Body;Body;Body	cg10832476
USP36	NM_025090	cg10833826F	TSS200	cg10833826
GABARAPL1	NM_031412	cg10833829R	Body	cg10833829
		cg10834082R		cg10834082
GNG4;GNG4;GNG4	NM_001098722;NM_004485	cg10840412F	TSS200;5'UTR;5'UTR	cg10840412
RNF126P1	NR_002818	cg10842080F	Body	cg10842080
		cg10842141R		cg10842141
TNK2;TNK2	NM_001010938;NM_005781	cg10843210R	Body;Body	cg10843210
		cg10844279F		cg10844279
ZNF22	NM_006963	cg10844884F	Body	cg10844884
		cg10845147R		cg10845147
MYO18A;MYO18A	NM_078471;NM_203318	cg10850863F	5'UTR;5'UTR	cg10850863
		cg10852003F		cg10852003
MLC1;MLC1	NM_139202;NM_015166	cg10854441R	TSS1500;TSS1500	cg10854441
ACTG1	NM_001614	cg10854807F	Body	cg10854807
		cg10855531R		cg10855531
SPOCK2;SPOCK2	NM_014767;NM_001134434	cg10856045F	5'UTR;5'UTR	cg10856045
		cg10858103R		cg10858103
		cg10858623F		cg10858623
		cg10859449F		cg10859449
		cg10859897R		cg10859897
		cg10861426R		cg10861426
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg10864951F	Body;Body;Body	cg10864951
		cg10867456R		cg10867456
		cg10868668F		cg10868668

FAM20C	NM_020223	cg10872967F	Body	cg10872967
		cg10875261R		cg10875261
CREBL2	NM_001310	cg10878170F	TSS1500	cg10878170
		cg10879867R		cg10879867
TRAF4	NM_004295	cg10881616R	Body	cg10881616
DGCR9	NR_024159	cg10882179F	Body	cg10882179
C1orf203;ATP1A1;ATP1A	NR_027646;NM_001160233;	cg10891259F	Body;Body;Body;Body;	cg10891259
SPAG1;SPAG1	NM_172218;NM_003114	cg10891570F	5'UTR;5'UTR	cg10891570
		cg10894991F		cg10894991
		cg10895433F		cg10895433
ZZZ3	NM_015534	cg10895547R	Body	cg10895547
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg10898067F	Body;Body;Body	cg10898067
LOC25845	NR_024158	cg10902033F	Body	cg10902033
FAM19A5	NM_001082967	cg10902101R	Body	cg10902101
		cg10904699R		cg10904699
GALNTL6	NM_001034845	cg10905206F	Body	cg10905206
SRCIN1	NM_025248	cg10906415F	Body	cg10906415
CRIP1	NM_014171	cg10906428F	3'UTR	cg10906428
BTNL8;BTNL8;BTNL8;BTNL8	NM_001159709;NM_001159	cg10906849R	TSS200;TSS200;TSS200	cg10906849
VSNL1	NM_003385	cg10907356F	Body	cg10907356
		cg10914699R		cg10914699
FGD6	NM_018351	cg10917910R	Body	cg10917910
ASB13;ASB13	NR_024581;NM_024701	cg10920632R	Body;Body	cg10920632
GGA3;GGA3	NM_014001;NM_138619	cg10922232R	Body;Body	cg10922232
		cg10922915F		cg10922915
		cg10923702R		cg10923702
		cg10926700F		cg10926700
COIL	NM_004645	cg10932289F	TSS200	cg10932289
SKP1;SKP1	NM_170679;NM_006930	cg10936233F	Body;Body	cg10936233
		cg10937205R		cg10937205
DIP2C	NM_014974	cg10937807F	Body	cg10937807
		cg10940789F		cg10940789
MARCH2;MARCH2;MARCH2	NM_016496;NM_001005415	cg10942084F	Body;Body;Body	cg10942084
C11orf64	NR_026946	cg10942775R	Body	cg10942775
KCNQ2;KCNQ2;KCNQ2;KCNQ2	NM_172108;NM_172106;NM_172106;NM_172106	cg10946576F	Body;Body;Body;Body;	cg10946576
FAM176A;FAM176A	NM_032181;NM_001135032	cg10948220R	5'UTR;5'UTR	cg10948220
		cg10953487F		cg10953487
ADAP1	NM_006869	cg10955633R	Body	cg10955633
STOX2	NM_020225	cg10957242R	TSS1500	cg10957242
		cg10958964R		cg10958964
		cg10959344F		cg10959344
		cg10961486F		cg10961486
		cg10963058R		cg10963058
BAHCC1	NM_001080519	cg10965164F	Body	cg10965164
GAK	NM_005255	cg10966208R	Body	cg10966208
CPEB3	NM_014912	cg10967735R	Body	cg10967735
TTL8	NM_001080447	cg10976318R	Body	cg10976318
CANT1;CANT1;CANT1	NM_138793;NM_001159773	cg10976778R	Body;Body;Body	cg10976778
BRUNOL6	NM_052840	cg10976908F	Body	cg10976908
ESRRG	NM_001134285	cg10977770R	5'UTR	cg10977770
SKI	NM_003036	cg10982378F	Body	cg10982378
		cg10984607F		cg10984607
		cg10984680F		cg10984680
GRM8	NM_001127323	cg10986355R	TSS1500	cg10986355

COL22A1	NM_152888	cg10986884R	cg10986884	
RNF24;RNF24;RNF24	NM_001134338;NM_007219	cg10987126F	cg10987126	Body
ZNF680;ZNF680;ZNF680;ZNF680	NM_001130022;NM_178558	cg10987882R	cg10987882	TSS1500;TSS1500;TSS1500
PLA2G2A;PLA2G2A;PLA2G2A	NM_001161728;NM_000300	cg10988062R	cg10988062	1stExon;5'UTR;1stExon;
SMAGP;SMAGP	NM_001033873;NM_001031	cg10992704F	cg10992704	
LEFTY2	NM_003240	cg10993488R	cg10993488	Body;Body;Body;Body
MIB2;MIB2;MIB2;MIB2;MIB2	NM_001170687;NM_001170	cg10993701F	cg10993701	Body;Body
ELOVL5	NM_021814	cg10994249F	cg10994249	3'UTR
FKBP2;FKBP2;FKBP2;FKBP2	NM_057092;NM_004470;NM_004470	cg10994263F	cg10994263	
MRV11;MRV11;MRV11;MRV11	NM_001100163;NM_130385	cg10994397R	cg10994397	Body;Body;Body;Body;
MGAT4C	NM_013244	cg10997175R	cg10997175	5'UTR
C6orf174	NM_001012279	cg10998122R	cg10998122	TSS1500;1stExon;5'UTR;
SSPO	NM_198455	cg10998505F	cg10998505	
ARL5A;ARL5A;ARL5A;ARL5A	NM_001037174;NM_012097	cg10998884F	cg10998884	5'UTR;5'UTR;5'UTR;TS
ALPK3;ALPK3	NM_020778;NM_020778	cg11001828F	cg11001828	
SCAND3	NM_052923	cg11003536R	cg11003536	
STK17A	NM_004760	cg11007391F	cg11007391	5'UTR
PGGT1B	NM_005023	cg11009066R	cg11009066	
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg11010178F	cg11010178	Body
HES6;HES6;HES6;HES6	NM_001142853;NM_018645	cg11014079R	cg11014079	Body
GPR101	NM_054021	cg11014991F	cg11014991	
PDE6G;PDE6G	NR_026872;NM_002602	cg11016293R	cg11016293	5'UTR;1stExon;5'UTR;5'
ZBTB12	NM_181842	cg11018018F	cg11018018	
TOX	NM_014729	cg11018313F	cg11018313	1stExon;5'UTR
ENTPD5;C14orf45	NM_001249;NM_025057	cg11019069R	cg11019069	Body
C14orf182	NM_001012706	cg11022926F	cg11022926	Body
HEPACAM2	NM_001039372	cg11022944R	cg11022944	1stExon
DNER	NM_139072	cg11024603F	cg11024603	
DCPS	NM_014026	cg11025469F	cg11025469	Body;Body;Body
PDZD8;PDZD8	NM_173791;NM_173791	cg11025604R	cg11025604	
DLG5	NM_004747	cg11027325F	cg11027325	5'UTR;1stExon;5'UTR;1stExon
PAQR5;PAQR5	NM_017705;NM_001104554	cg11028622F	cg11028622	
PPP3CB;PPP3CB;PPP3CB	NM_021132;NM_001142354	cg11031660R	cg11031660	
ADAM6	NR_002224	cg11033833R	cg11033833	1stExon
C2orf76;DBI;DBI;DBI	NM_001017927;NM_001079	cg11036546F	cg11036546	
		cg11040518R	cg11040518	
		cg11046638F	cg11046638	TSS1500;TSS1500
		cg11049439R	cg11049439	Body
		cg11050859F	cg11050859	TSS200
		cg11051738R	cg11051738	
		cg11053489F	cg11053489	5'UTR;TSS1500
		cg11056766F	cg11056766	
		cg11057824F	cg11057824	Body
		cg11058087R	cg11058087	
		cg11058951F	cg11058951	1stExon
		cg11059971F	cg11059971	Body
		cg11060199F	cg11060199	Body
		cg11061177F	cg11061177	1stExon;5'UTR
		cg11062956F	cg11062956	
		cg11063088F	cg11063088	Body
		cg11064521F	cg11064521	5'UTR;TSS1500
		cg11064744F	cg11064744	Body;Body;Body
		cg11065694R	cg11065694	Body
		cg11066750R	cg11066750	TSS1500;Body;TSS200;5'



FAM60A;FAM60A;FAM60	NM_001135811;NM_001135	cg11067468F	TSS200;1stExon;TSS20	cg11067468
CUBN	NM_001081	cg11069798R	Body	cg11069798
		cg11070069R		cg11070069
ESCO2	NM_001017420	cg11071070F	5'UTR	cg11071070
PHACTR4	NM_001048183	cg11072045F	TSS1500	cg11072045
RERE;RERE	NM_012102;NM_001042681	cg11072627F	5'UTR;5'UTR	cg11072627
ASPSCR1	NM_024083	cg11079613R	Body	cg11079613
		cg11081390R		cg11081390
NXN	NM_022463	cg11082565F	TSS200	cg11082565
		cg11083604R		cg11083604
		cg11084113F		cg11084113
		cg11084269R		cg11084269
JAK3	NM_000215	cg11085762F	Body	cg11085762
MGAT5B;MGAT5B	NM_144677;NM_198955	cg11088706R	Body;Body	cg11088706
STOX2	NM_020225	cg11089646F	Body	cg11089646
WDR25;WDR25	NM_024515;NM_001161476	cg11093939R	Body;Body	cg11093939
ATP2A1;ATP2A1	NM_173201;NM_004320	cg11094938R	TSS1500;TSS1500	cg11094938
		cg11097388F		cg11097388
GABRB3;GABRB3	NM_000814;NM_021912	cg11099236F	Body;Body	cg11099236
KIAA0232;KIAA0232	NM_014743;NM_001100590	cg11099918R	Body;Body	cg11099918
LOC154761	NR_015421	cg11100258R	TSS200	cg11100258
CAGE1;CAGE1;CAGE1	NM_001170692;NM_205864	cg11100341F	Body;Body;Body	cg11100341
		cg11101032F		cg11101032
NR2E3;NR2E3	NM_014249;NM_016346	cg11103078F	Body;Body	cg11103078
TRAPPC2;TRAPPC2;TRA	NM_014563;NM_001128835	cg11104440F	TSS200;TSS200;TSS200	cg11104440
SLC28A2	NM_004212	cg11105927R	3'UTR	cg11105927
RAB10;RAB10	NM_016131;NM_016131	cg11109684R	5'UTR;1stExon	cg11109684
GPX3	NM_002084	cg11109721F	3'UTR	cg11109721
CUL1	NM_003592	cg11109845R	TSS1500	cg11109845
TTN;TTN;TTN;TTN;TTN	NM_133379;NM_133378;NM_133377;NM_133376;NM_133375	cg11111214R	TSS1500;TSS1500;TSS1500	cg11111214
		cg11111372F		cg11111372
KNDC1	NM_152643	cg11116013F	TSS200	cg11116013
SLC1A3;SLC1A3;SLC1A3	NM_001166695;NM_001166	cg11116429F	TSS1500;5'UTR;5'UTR	cg11116429
		cg11122456F		cg11122456
NXN	NM_022463	cg11123583F	Body	cg11123583
		cg11128212F		cg11128212
PAX6;PAX6;PAX6	NM_001604;NM_001127612	cg11128216R	Body;Body;Body	cg11128216
C21orf15	NR_026755	cg11128285R	TSS1500	cg11128285
		cg11133161R		cg11133161
MGC23270	NR_024396	cg11135612F	Body	cg11135612
PARP9;DTX3L;PARP9;PAN	NM_001146105;NM_138287	cg11138794F	TSS200;1stExon;5'UTR;	cg11138794
DDX4;DDX4;DDX4	NM_024415;NM_001142549	cg11139041R	TSS200;TSS200;TSS200	cg11139041
TCF7L2;TCF7L2;TCF7L2;	NM_001146284;NM_001146	cg11140344R	Body;Body;Body;Body;B	cg11140344
AGA	NM_000027	cg11143796R	Body	cg11143796
		cg11144862R		cg11144862
FLNC;FLNC	NM_001127487;NM_001458	cg11147154F	3'UTR;3'UTR	cg11147154
		cg11147278R		cg11147278
SUSD4;SUSD4	NM_017982;NM_001037175	cg11147878F	Body;3'UTR	cg11147878
SNORD115-11;SNORD115	NR_003303;NR_003351;NR_003350	cg11148364R	TSS200;TSS200;TSS200	cg11148364
MCPH1	NM_024596	cg11149658F	Body	cg11149658
C1orf106;C1orf106	NM_001142569;NM_018265	cg11150074R	TSS1500;Body	cg11150074
MPO	NM_000250	cg11151395R	Body	cg11151395
RARB;RARB	NM_016152;NM_000965	cg11151405R	Body;Body	cg11151405
SNRPN;SNRPN;SNRPN;S	NM_022805;NM_022808;NM_022807	cg11152012F	5'UTR;5'UTR;5'UTR;5'U	cg11152012

ROR1;ROR1	NM_005012;NM_0010835	cg11152167F	Body;Body	cg11152167
IFT88;IFT88	NM_175605;NM_006531	cg11153891R cg11155992R	Body;Body	cg11153891 cg11155992
HTR3E	NM_182589	cg11158819F	TSS200	cg11158819
DNA2	NM_001080449	cg11163433R cg11165316R	TSS1500	cg11163433 cg11165316
AGPAT3	NM_020132	cg11166708R cg11166888R	5'UTR	cg11166708 cg11166888
RASA3	NM_007368	cg11166893F cg11168614F	Body	cg11166893 cg11168614
TCF3;TCF3	NM_003200;NM_0011361	cg11170796R	Body;1stExon	cg11170796
KLHDC7A	NM_152375	cg11175836F	TSS1500	cg11175836
ACOT11;FAM151A;FAM1	NM_015547;NM_176782;NM_1	cg11177235F	Body;1stExon;5'UTR	cg11177235
TPK1;TPK1	NM_022445;NM_001042482	cg11183253F cg11188440F	Body;Body	cg11183253 cg11188440
SPAG1;SPAG1	NM_003114;NM_172218	cg11192808R cg11194118F	TSS1500;TSS200	cg11192808 cg11194118
CLYBL	NM_206808	cg11195797R	3'UTR	cg11195797
EML1;EML1	NM_001008707;NM_004434	cg11199642F cg11201539R cg11203244R	Body;Body	cg11199642 cg11201539 cg11203244
PYROXD2	NM_032709	cg11203827R	TSS1500	cg11203827
RSPO2	NM_178565	cg11208967F	Body	cg11208967
P2RX4	NM_002560	cg11209001R	TSS200	cg11209001
SLC4A4;SLC4A4;SLC4A4	NM_001134742;NM_003759	cg11209631F	Body;TSS200;Body	cg11209631
PRDM16;PRDM16	NM_022114;NM_199454	cg11210422R	Body;Body	cg11210422
RNH1;RNH1;RNH1;RNH1	NM_203386;NM_203385;NM_2	cg11218175R	Body;Body;Body;Body;	cg11218175
ARVCF	NM_001670	cg11219691R	Body	cg11219691
MIR663	NR_030386	cg11220245R	TSS1500	cg11220245
VPS52;RPS18	NM_022553;NM_022551	cg11222065F	TSS1500;Body	cg11222065
ITGB4;ITGB4;ITGB4	NM_001005731;NM_001005	cg11223622R	Body;Body;Body	cg11223622
GDF11	NM_005811	cg11224423F	TSS200	cg11224423
ODF3B	NM_001014440	cg11224765F cg11224783F	TSS200	cg11224765 cg11224783
RAD54B	NM_012415	cg11225571F	TSS1500	cg11225571
DDRGK1	NM_023935	cg11226289F	TSS1500	cg11226289
PHIP	NM_017934	cg11227604R cg11227822R	Body	cg11227604 cg11227822
GNB1	NM_002074	cg11228874R cg11229185F	5'UTR	cg11228874 cg11229185
LINGO3	NM_001101391	cg11231751R	5'UTR	cg11231751
ABCD3;ABCD3	NM_001122674;NM_002858	cg11237362F cg11239335F	Body;Body	cg11237362 cg11239335
BEND7;BEND7	NM_152751;NM_001100912	cg11243185R	Body;Body	cg11243185
AMN1;AMN1	NM_001113402;NR_004854	cg11243680R cg11248957F	Body;Body	cg11243680 cg11248957
NFIX	NM_002501	cg11249241R	Body	cg11249241
KCNQ1;KCNQ1	NM_000218;NM_181798	cg11249934F	Body;Body	cg11249934
C21orf29	NM_144991	cg11250081F	Body	cg11250081
DOT1L	NM_032482	cg11251006R cg11254532F	Body	cg11251006 cg11254532
ZNF362	NM_152493	cg11256297R	Body	cg11256297
WDR8	NM_017818	cg11256802F	TSS1500	cg11256802
LOC401010	NR_002826	cg11258485F	TSS200	cg11258485

		cg11265952F		cg11265952
		cg11271346R		cg11271346
		cg11272475R		cg11272475
PLD1;PLD1	NM_001130081;NM_002662	cg11276382F	5'UTR;5'UTR	cg11276382
HIVEP1	NM_002114	cg11276388R	Body	cg11276388
HDAC2	NM_001527	cg11276600R	Body	cg11276600
		cg11281110R		cg11281110
		cg11284147F		cg11284147
OSMR;OSMR	NM_003999;NM_001168355	cg11284631F	Body;Body	cg11284631
HSDL2	NM_032303	cg11288092R	TSS200	cg11288092
		cg11290182R		cg11290182
TOM1L2;TOM1L2	NM_001033551;NM_001082	cg11293112F	Body;Body	cg11293112
		cg11294312F		cg11294312
		cg11294873F		cg11294873
PRDX5;PRDX5;TRMT112	NM_012094;NM_181652;NM_001082	cg11296937F	TSS1500;TSS1500;1stExon	cg11296937
		cg11300810R		cg11300810
BCYRN1;INGX	NR_001568;NR_002226	cg11307741F	Body;TSS1500	cg11307741
RAB6A;RAB6A	NM_002869;NM_198896	cg11309891F	3'UTR;3'UTR	cg11309891
SSX8	NR_027250	cg11311049F	TSS200	cg11311049
RPS9	NM_001013	cg11313708R	Body	cg11313708
		cg11314668F		cg11314668
XIAP	NM_001167	cg11315455F	5'UTR	cg11315455
FGF12	NM_004113	cg11316751F	Body	cg11316751
LRRC49	NM_017691	cg11323113F	3'UTR	cg11323113
PSD3;PSD3	NM_206909;NM_015310	cg11323985F	Body;Body	cg11323985
SLC16A8	NM_013356	cg11324504R	3'UTR	cg11324504
SLC8A2	NM_015063	cg11328253R	Body	cg11328253
ZNF808	NM_001039886	cg11330104R	TSS1500	cg11330104
PRDM16;PRDM16	NM_022114;NM_199454	cg11332505R	Body;Body	cg11332505
MICB	NM_005931	cg11336938R	Body	cg11336938
ZKSCAN3;ZNF323	NM_024493;NM_001135215	cg11341932F	5'UTR;TSS1500	cg11341932
ARHGEF17	NM_014786	cg11342106R	1stExon	cg11342106
		cg11343464R		cg11343464
KLHDC7B	NM_138433	cg11344005F	1stExon	cg11344005
CRYL1	NM_015974	cg11345143R	Body	cg11345143
		cg11345718R		cg11345718
FLJ45340	NR_024368	cg11346962R	TSS1500	cg11346962
		cg11347955F		cg11347955
LOC284379	NR_002938	cg11353792F	TSS1500	cg11353792
EGFL8	NM_030652	cg11356887F	3'UTR	cg11356887
		cg11357138R		cg11357138
TNXB	NM_019105	cg11361049F	Body	cg11361049
FLNB;FLNB;FLNB;FLNB	NM_001164317;NM_001457	cg11361691F	TSS1500;TSS1500;TSS1500	cg11361691
SAFB2	NM_014649	cg11361831F	Body	cg11361831
LRRC27;LRRC27	NM_001143757;NM_030626	cg11363467R	Body;Body	cg11363467
SR140	NM_001080415	cg11368438F	Body	cg11368438
HSP90AB1	NM_007355	cg11372263F	Body	cg11372263
OPLAH	NM_017570	cg11375264R	Body	cg11375264
SH3RF3	NM_001099289	cg11380807R	Body	cg11380807
		cg11382291R		cg11382291
		cg11382666F		cg11382666
APBB2;APBB2;APBB2	NM_004307;NM_001166050	cg11382761F	Body;Body;Body	cg11382761
GUSBL2	NR_003660	cg11382976R	TSS1500	cg11382976
		cg11383148F		cg11383148

KCNQ4;KCNQ4	NM_004700;NM_172163	cg11386025R	Body;Body	cg11386025
SYT7	NM_004200	cg11386098F	Body	cg11386098
PSG8;PSG8;PSG8	NM_001130167;NM_001130	cg11387248R	TSS200;TSS200;TSS200	cg11387248
WRB	NM_004627	cg11388866R	TSS200	cg11388866
		cg11391618R		cg11391618
KCNE4	NM_080671	cg11391828F	TSS1500	cg11391828
HTR7P;HEBP1	NR_002774;NM_015987	cg11392389F	Body;TSS1500	cg11392389
RAB4A	NM_004578	cg11394611F	Body	cg11394611
FAHD1;HAGH;FAHD1;FANM_001018104;NM_005326		cg11396746F	1stExon;TSS1500;1stEx	cg11396746
		cg11397033R		cg11397033
SNX19	NM_014758	cg11399053R	Body	cg11399053
		cg11399582F		cg11399582
ANKRD36BL1	NR_026844	cg11400325R	Body	cg11400325
HPSE2;HPSE2;HPSE2;HP	NM_001166244;NM_001166	cg11400953R	Body;Body;Body;Body	cg11400953
SEPHS1	NM_012247	cg11402396F	Body	cg11402396
		cg11403046R		cg11403046
		cg11403261R		cg11403261
		cg11403907F		cg11403907
CATSPER2;CATSPER2;C	NM_054020;NM_172097;NM	cg11412036R	TSS1500;TSS1500;TSS1	cg11412036
		cg11412070F		cg11412070
HIST3H3	NM_003493	cg11412256R	1stExon	cg11412256
ERI3	NM_024066	cg11413152R	Body	cg11413152
NLK	NM_016231	cg11414202F	Body	cg11414202
SP9	NM_001145250	cg11418477F	TSS200	cg11418477
		cg11420780R		cg11420780
		cg11423130R		cg11423130
DDC;DDC	NM_000790;NM_001082971	cg11423517F	Body;Body	cg11423517
MORF4L2;MORF4L2;MO	NM_001142419;NM_001142	cg11425349R	TSS1500;TSS1500;TSS1	cg11425349
SPRED1	NM_152594	cg11427898F	TSS200	cg11427898
		cg11427900R		cg11427900
RLN3	NM_080864	cg11431585R	TSS200	cg11431585
TIMP2	NM_003255	cg11437140F	Body	cg11437140
SRGAP1	NM_020762	cg11441533R	Body	cg11441533
		cg11444684F		cg11444684
		cg11448030F		cg11448030
GABARAPL1;GABARAP	NM_031412;NM_031412	cg11450001F	1stExon;5'UTR	cg11450001
		cg11450541F		cg11450541
C5orf27	NR_026936	cg11451281F	TSS1500	cg11451281
LAMP1	NM_005561	cg11451477F	Body	cg11451477
		cg11452455F		cg11452455
SLC37A1	NM_018964	cg11453546F	Body	cg11453546
CHKA;CHKA	NM_001277;NM_212469	cg11454606F	TSS200;TSS200	cg11454606
UNCX	NM_001080461	cg11461298F	Body	cg11461298
MBTD1	NM_017643	cg11466309R	3'UTR	cg11466309
MRPS16;MRPS16	NM_016065;NM_016065	cg11469325R	1stExon;5'UTR	cg11469325
NPC1L1;NPC1L1	NM_013389;NM_001101648	cg11470337R	Body;Body	cg11470337
		cg11473856F		cg11473856
PVT1	NR_003367	cg11478273R	TSS200	cg11478273
FNDC7	NM_001144937	cg11481351F	Body	cg11481351
		cg11485630F		cg11485630
CCDC88B	NM_032251	cg11487187F	3'UTR	cg11487187
CD82;CD82	NM_001024844;NM_002231	cg11487532R	TSS200;TSS200	cg11487532
KIAA1688	NM_025251	cg11488020R	Body	cg11488020
RPL37	NM_000997	cg11498652F	Body	cg11498652

		cg11499689F		cg11499689
		cg11504245R		cg11504245
COL23A1	NM_173465	cg11507532F	Body	cg11507532
MAP3K2	NM_006609	cg11517528F	TSS1500	cg11517528
RGS12;RGS12;RGS12	NM_198229;NM_198227;NM_198226	cg11522145F	Body;Body;Body	cg11522145
TCEA1;TCEA1	NM_006756;NM_201437	cg11530293F	TSS200;TSS200	cg11530293
MIR548N;PLEKHA3	NR_031666;NM_019091	cg11539052R	Body;Body	cg11539052
		cg11544522F		cg11544522
		cg11545863F		cg11545863
		cg11550436F		cg11550436
IMPA2	NM_014214	cg11550971R	TSS200	cg11550971
CUX2	NM_015267	cg11551879R	Body	cg11551879
PARVB;PARVB	NM_001003828;NM_013327	cg11553066R	Body;Body	cg11553066
		cg11553248F		cg11553248
		cg11555339F		cg11555339
CARD14;CARD14	NM_052819;NM_024110	cg11555666R	Body;Body	cg11555666
CDYL;CDYL	NM_004824;NR_026590	cg11557932R	Body;Body	cg11557932
FRG1;FRG1	NM_004477;NM_004477	cg11563264R	1stExon;5'UTR	cg11563264
ZNF562;ZNF562;ZNF562	NM_001130032;NM_001130031	cg11564652F	3'UTR;3'UTR;3'UTR	cg11564652
GPR45	NM_007227	cg11565042F	1stExon	cg11565042
RPS9	NM_001013	cg11569329R	Body	cg11569329
CDC42;CDC42;CDC42	NM_001039802;NM_001791	cg11572548F	5'UTR;5'UTR;5'UTR	cg11572548
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg11573197F	Body;Body;Body	cg11573197
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg11573308F	Body;Body;Body	cg11573308
		cg11573608R		cg11573608
H1FX;C3orf47;H1FX	NM_006026;NR_026991;NM_006026	cg11578066F	1stExon;TSS1500;3'UTR	cg11578066
LRRIQ3;TNNT3;FPGT	NM_001105659;NM_001112	cg11579905F	5'UTR;TSS1500;TSS1500	cg11579905
ZNF295;ZNF295;ZNF295	NM_001098403;NM_001098403	cg11579999F	TSS1500;TSS1500;TSS1500	cg11579999
SERAC1;SERAC1;GTF2H	NM_032861;NM_032861;NM_032861	cg11582617F	1stExon;5'UTR;TSS200	cg11582617
HEATR1	NM_018072	cg11582993F	TSS200	cg11582993
		cg11586124F		cg11586124
		cg11586930R		cg11586930
ARHGEF16	NM_014448	cg11587191R	Body	cg11587191
MAG;MAG	NM_080600;NM_002361	cg11587635R	TSS1500;TSS1500	cg11587635
		cg11587957R		cg11587957
UQCRFS1	NM_006003	cg11588001F	TSS200	cg11588001
		cg11588710R		cg11588710
TFAMP1	NR_001288	cg11589509R	TSS1500	cg11589509
TNR	NM_003285	cg11589567F	5'UTR	cg11589567
CELSR1	NM_014246	cg11589703R	Body	cg11589703
AIFM1;AIFM1;AIFM1;AIFM1	NM_145813;NM_001130846	cg11593337R	Body;TSS1500;Body;Body	cg11593337
COX4I2	NM_032609	cg11595048F	TSS1500	cg11595048
		cg11596845F		cg11596845
SMOC2;SMOC2	NM_022138;NM_001166412	cg11598427F	Body;Body	cg11598427
TBC1D10C	NM_198517	cg11600161F	5'UTR	cg11600161
ITPR1;ITPR1;ITPR1;EGOT	NM_002222;NM_001099952	cg11600734R	Body;Body;Body;TSS1500	cg11600734
KRT6B	NM_005555	cg11601375R	TSS200	cg11601375
RAD9A	NM_004584	cg11604912F	Body	cg11604912
ANKRD18A;C9orf122	NM_147195;NR_027294	cg11608447F	TSS1500;TSS1500	cg11608447
CDH4	NM_001794	cg11618057R	Body	cg11618057
		cg11618788F		cg11618788
MGMT	NM_002412	cg11621301F	Body	cg11621301
RALA	NM_005402	cg11621667R	TSS200	cg11621667
CD79A;CD79A;CD79A;CD79A	NM_001783;NM_001783;NM_001783;NM_001783	cg11624309R	1stExon;5'UTR;1stExon;5'UTR	cg11624309

OR2H2	NM_007160	cg11629449R	1stExon	cg11629449
MFI2	NM_005929	cg11631334R	Body	cg11631334
UBTD2	NM_152277	cg11631871R	Body	cg11631871
CNTN3	NM_020872	cg11635155R	Body	cg11635155
MYO9B;MYO9B	NM_001130065;NM_004145	cg11635401R	Body;Body	cg11635401
MACROD1	NM_014067	cg11642412R	Body	cg11642412
		cg11643245F		cg11643245
KDM4B	NM_015015	cg11645724R	Body	cg11645724
		cg11646485F		cg11646485
		cg11652095F		cg11652095
PSTPIP1	NM_003978	cg11652496R	Body	cg11652496
		cg11655995R		cg11655995
		cg11657043R		cg11657043
UXS1	NM_025076	cg11660418F	Body	cg11660418
UBE2O	NM_022066	cg11661493F	Body	cg11661493
FBXO18;FBXO18	NM_178150;NM_032807	cg11662609R	Body;TSS1500	cg11662609
LRP8;LRP8;LRP8;LRP8	NM_033300;NM_001018054	cg11662671F	Body;Body;Body;Body	cg11662671
PPM1L	NM_139245	cg11663289R	TSS1500	cg11663289
		cg11663806R		cg11663806
		cg11664379R		cg11664379
		cg11665652F		cg11665652
GP9	NM_000174	cg11668561F	Body	cg11668561
GNAS;GNASAS	NM_016592;NR_002785	cg11669839F	3'UTR;TSS1500	cg11669839
SOX13	NM_005686	cg11669877F	5'UTR	cg11669877
PRPF18	NM_003675	cg11673920R	Body	cg11673920
RET;RET	NM_020630;NM_020975	cg11674432F	TSS200;TSS200	cg11674432
		cg11675098R		cg11675098
		cg11675165R		cg11675165
SERF2	NM_001018108	cg11675409F	TSS1500	cg11675409
		cg11677260F		cg11677260
		cg11680604R		cg11680604
		cg11686154F		cg11686154
PLCH2	NM_014638	cg11692307F	Body	cg11692307
ATP6V1H;ATP6V1H;ATP6V1H	NM_015941;NM_213620;NM_006804;NM_001165937	cg11692369R	TSS200;TSS1500;TSS200	cg11692369
STARD3;STARD3;STARD3	NM_006804;NM_001165937	cg11693508R	TSS200;TSS200;TSS200	cg11693508
IFITM1	NM_003641	cg11694510R	TSS1500	cg11694510
ACCN1;ACCN1	NM_183377;NM_001094	cg11695831R	Body;Body	cg11695831
VIPR2	NM_003382	cg11697660F	Body	cg11697660
BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_01698647R	cg11698827F	Body;Body;Body;Body	cg11698827
MLLT1	NM_005934	cg11702503F	Body	cg11702503
TRPM7	NM_017672	cg11703007R	Body	cg11703007
ADARB2	NM_018702	cg11704601F	Body	cg11704601
TRIB2;TRIB2	NM_021643;NR_027303	cg11706080R	TSS200;TSS200	cg11706080
		cg11711501R		cg11711501
		cg11716064F		cg11716064
GUSB	NM_000181	cg11716608R	TSS200	cg11716608
		cg11718677R		cg11718677
KRT72;KRT72;KRT72	NM_080747;NM_001146225	cg11723055R	Body;Body;Body	cg11723055
GPR4	NM_005282	cg11723280F	Body	cg11723280
WAC;WAC;WAC	NM_100486;NM_016628;NR_011724873R	cg11724873R	Body;Body;Body	cg11724873
NPHP4	NM_015102	cg11725182R	Body	cg11725182
C19orf28;C19orf28;C19orf28	NM_001042680;NM_021731	cg11726363R	Body;Body;Body	cg11726363
		cg11726792F		cg11726792

PXDN	NM_012293	cg11728145R	Body	cg11728145
ZDHC8	NM_013373	cg11732063R	Body	cg11732063
MTSS1L	NM_138383	cg11733057F	Body	cg11733057
TMEM79;TMEM79	NR_026678;NM_032323	cg11734019R	Body;Body	cg11734019
AJAP1;AJAP1	NM_018836;NM_0010424	78cg11735846F	Body;Body	cg11735846
		cg11736524R		cg11736524
SOCS2	NM_003877	cg11738543F	Body	cg11738543
AASS	NM_005763	cg11738782F	Body	cg11738782
KIAA0495	NM_207306	cg11746651R	TSS1500	cg11746651
NOTCH4	NM_004557	cg11748170F	Body	cg11748170
FTH1	NM_002032	cg11748881R	1stExon	cg11748881
C20orf117;C20orf117	NM_080627;NM_199181	cg11748904F	Body;Body	cg11748904
		cg11750929F		cg11750929
		cg11752788F		cg11752788
C1orf159	NM_017891	cg11754357R	5'UTR	cg11754357
		cg11754382R		cg11754382
SFTP;SFTP	NM_000542;NM_198843	cg11754807F	TSS1500;TSS1500	cg11754807
CDC42BPB	NM_006035	cg11754857R	Body	cg11754857
TNFRSF25;TNFRSF25;TNM	NM_148967;NM_003790;NM	cg11756870F	Body;Body;Body;Body;	cg11756870
BBC3;BBC3;BBC3;BBC3	NM_014417;NM_001127241	cg11759937R	Body;Body;Body;Body	cg11759937
TMEM104	NM_017728	cg11763337R	3'UTR	cg11763337
SPDEF	NM_012391	cg11772013F	5'UTR	cg11772013
		cg11774633F		cg11774633
DOT1L	NM_032482	cg11776115F	Body	cg11776115
DSCAML1	NM_020693	cg11776727F	Body	cg11776727
		cg11777290R		cg11777290
INTU	NM_015693	cg11779273R	TSS200	cg11779273
C2orf57	NM_152614	cg11784281R	1stExon	cg11784281
RNF11	NM_014372	cg11785465F	Body	cg11785465
SCNN1A;SCNN1A;SCNN	NM_001159575;NM_001159	cg11785537F	Body;TSS1500;1stExon;	cg11785537
SEC11C	NM_033280	cg11786338F	Body	cg11786338
ROR1;ROR1	NM_005012;NM_001083592	cg11786966R	Body;Body	cg11786966
NDUFA4	NM_014165	cg11787828R	1stExon	cg11787828
LOC731779	NR_024441	cg11788447R	TSS200	cg11788447
		cg11789712F		cg11789712
		cg11791350R		cg11791350
TBC1D10C	NM_198517	cg11791526R	Body	cg11791526
SULT6B1	NM_001032377	cg11793168F	TSS200	cg11793168
		cg11793422F		cg11793422
CACHD1	NM_020925	cg11795488R	Body	cg11795488
		cg11804725F		cg11804725
SNORD116-24	NR_003338	cg11805463F	Body	cg11805463
		cg11806439F		cg11806439
		cg11806813F		cg11806813
RNF126	NM_194460	cg11807842R	Body	cg11807842
LSM14B;LSM14B	NM_144703;NM_144703	cg11808854R	5'UTR;1stExon	cg11808854
MBD3	NM_003926	cg11809123F	Body	cg11809123
		cg11810370F		cg11810370
UGT1A10;UGT1A1;UGT1	NM_019075;NM_000463;NM	cg11811840F	Body;1stExon;Body;Body;	cg11811840
MARCH6	NM_005885	cg11811959F	Body	cg11811959
CEP350	NM_014810	cg11812143F	5'UTR	cg11812143
CUX2	NM_015267	cg11813690R	Body	cg11813690
		cg11814421R		cg11814421
CBS	NM_000071	cg11815682F	Body	cg11815682

ONECUT2	NM_004852	cg11816081R		cg11816081
HSPG2	NM_005529	cg11817589F	Body	cg11817589
		cg11818031F	Body	cg11818031
		cg11818149R		cg11818149
		cg11818438F		cg11818438
HIST1H2BE	NM_003523	cg11822208R	1stExon	cg11822208
CRTC1;CRTC1	NM_015321;NM_001098482	cg11824179F	Body;Body	cg11824179
RPTOR;RPTOR	NM_001163034;NM_020761	cg11824764R	Body;Body	cg11824764
		cg11826883F		cg11826883
ARL11	NM_138450	cg11827082F	TSS200	cg11827082
EFHD1	NR_027663	cg11827409R	TSS1500	cg11827409
		cg11828775R		cg11828775
PRKD1	NM_002742	cg11828932R	Body	cg11828932
CNOT6	NM_015455	cg11830508F	TSS1500	cg11830508
ATN1;ATN1	NM_001007026;NM_001940	cg11831988R	5'UTR;5'UTR	cg11831988
PPP2R5E	NM_006246	cg11833768F	Body	cg11833768
RHOC;RHOC;RHOC	NM_175744;NM_001042679	cg11835347F	5'UTR;5'UTR;5'UTR	cg11835347
		cg11836587R		cg11836587
GNB1	NM_002074	cg11836949F	5'UTR	cg11836949
KDM4B	NM_015015	cg11837965F	Body	cg11837965
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg11838542R	Body;Body;Body	cg11838542
MST1R	NM_002447	cg11839681R	1stExon	cg11839681
		cg11845549R		cg11845549
ZFPM1	NM_153813	cg11846580F	Body	cg11846580
C1orf56;BNIPL;BNIPL	NM_017860;NM_138278;NM_017860	cg11852073F	TSS1500;3'UTR;3'UTR	cg11852073
		cg11852471F		cg11852471
DGKB;DGKB	NM_145695;NM_004080	cg11855409F	Body;Body	cg11855409
USP43	NM_153210	cg11855759F	TSS200	cg11855759
		cg11858029F		cg11858029
PROCR	NM_006404	cg11864490R	TSS200	cg11864490
RPS19	NM_001022	cg11867012R	5'UTR	cg11867012
		cg11868247F		cg11868247
FIGNL2	NM_001013690	cg11869007R	1stExon	cg11869007
C10orf58;C10orf58	NR_024572;NM_032333	cg11876524R	Body;5'UTR	cg11876524
PAPLN	NM_173462	cg11881202R	Body	cg11881202
		cg11890744F		cg11890744
NRXN2;NRXN2;NRXN2;	NM_138734;NM_138732;NM_138732	cg11892836R	1stExon;Body;Body;5'U	cg11892836
MID2;MID2	NM_052817;NM_012216	cg11898648F	Body;Body	cg11898648
PTCRA	NM_138296	cg11898695R	TSS1500	cg11898695
		cg11901456R		cg11901456
SVIL	NM_003174	cg11902278R	5'UTR	cg11902278
AHRR	NM_020731	cg11902777F	Body	cg11902777
TATDN1;TATDN1;TATD	NM_032026;NM_001146160	cg11904751R	Body;Body;Body	cg11904751
MMP17	NM_016155	cg11904978R	Body	cg11904978
C11orf71;RBM7	NM_019021;NM_016090	cg11907564R	TSS1500;1stExon	cg11907564
FOLR1;FOLR1;FOLR1;FONM	NM_000802;NM_016729;NM_016729	cg11908291F	5'UTR;TSS1500;5'UTR;	cg11908291
APOC1P1;APOC1P1;APO	NR_028414;NR_028412;NR_028412	cg11911305R	TSS1500;TSS1500;TSS1	cg11911305
SLC25A24;SLC25A24	NM_013386;NM_013386	cg11911399R	1stExon;5'UTR	cg11911399
		cg11914812F		cg11914812
SKP1;SKP1	NM_006930;NM_170679	cg11916758R	TSS200;TSS200	cg11916758
PAFAH1B3;PAFAH1B3;P	NM_001145940;NM_002573	cg11919479F	Body;Body;Body	cg11919479
TIAM2;TIAM2	NM_012454;NM_001010927	cg11920576F	Body;TSS1500	cg11920576
		cg11925609F		cg11925609
EGFL6;EGFL6	NM_001167890;NM_015507	cg11926150R	Body;Body	cg11926150



CPS1;CPS1	NM_001122633;NM_001875	cg11926456F	Body;Body	cg11926456
C8orf80	NM_001010906	cg11928962F	TSS1500	cg11928962
		cg11930700R		cg11930700
PTPRG	NM_002841	cg11934688R	Body	cg11934688
ATR	NM_001184	cg11936145R	TSS200	cg11936145
AMMECR1L	NM_031445	cg11936554F	3'UTR	cg11936554
		cg11937033R		cg11937033
		cg11937892R		cg11937892
		cg11938738F		cg11938738
		cg11940136F		cg11940136
		cg11942329F		cg11942329
MYADML	NR_003143	cg11942450R	TSS200	cg11942450
		cg11943058R		cg11943058
ANAPC7;ANAPC7	NM_016238;NM_001137664	cg11943753F	TSS1500;TSS1500	cg11943753
		cg11945668R		cg11945668
TMEM217;TMEM217	NM_145316;NM_001162900	cg11946458F	5'UTR;5'UTR	cg11946458
		cg11946618F		cg11946618
CLDN19;CLDN19	NM_001123395;NM_148960	cg11947084R	TSS1500;TSS1500	cg11947084
PIK3CD	NM_005026	cg11947782R	Body	cg11947782
HSD17B12	NM_016142	cg11948328R	1stExon	cg11948328
SHANK2;SHANK2	NM_012309;NM_133266	cg11948865F	Body;Body	cg11948865
		cg11951844F		cg11951844
NKX6-3	NM_152568	cg11952839F	TSS200	cg11952839
		cg11953003R		cg11953003
MYO10	NM_012334	cg11954030F	Body	cg11954030
LONP1	NM_004793	cg11959374R	Body	cg11959374
TCTN1;TCTN1;TCTN1	NM_001082537;NM_024549	cg11961237F	Body;Body;Body	cg11961237
		cg11968166F		cg11968166
NELL2;NELL2	NM_001145110;NM_001145	cg11969830R	Body;TSS1500	cg11969830
DNAH11	NM_003777	cg11970679R	Body	cg11970679
STK3	NM_006281	cg11971662R	Body	cg11971662
FILIP1	NM_015687	cg11976592F	Body	cg11976592
OR2AK2;OR2L13	NM_001004491;NM_175911	cg11977100R	1stExon;5'UTR	cg11977100
		cg11979420R		cg11979420
EXOSC9;EXOSC9	NM_005033;NM_001034194	cg11979875F	TSS1500;TSS1500	cg11979875
		cg11983363R		cg11983363
		cg11988722R		cg11988722
CCDC57	NM_198082	cg11989942R	Body	cg11989942
		cg11990559R		cg11990559
		cg11990630R		cg11990630
KIAA0664	NM_015229	cg11990813F	Body	cg11990813
SPO11;SPO11	NM_198265;NM_012444	cg11991566R	Body;Body	cg11991566
		cg11992265F		cg11992265
		cg11992550F		cg11992550
NFATC2;NFATC2;NFATC2	NM_012340;NM_001136021	cg11993118R	TSS200;Body;TSS200	cg11993118
DYX1C1;DYX1C1;DYX1	NM_001033560;NM_001033	cg11993253R	Body;Body;Body	cg11993253
RBM33	NM_053043	cg11993436F	TSS200	cg11993436
NCAM1;NCAM1;NCAM1	NM_001076682;NM_000615	cg11994052R	Body;Body;Body	cg11994052
SCARF1;SCARF1;SCARF1	NM_145352;NM_003693;NM_003693	cg11998307F	TSS1500;TSS1500;TSS1500	cg11998307
ZNF429	NM_001001415	cg12003952R	TSS1500	cg12003952
		cg12006399R		cg12006399
OSBPL6;OSBPL6	NM_032523;NM_145739	cg12011522F	Body;Body	cg12011522
		cg12013258R		cg12013258
PHF21A;PHF21A	NM_001101802;NM_016621	cg12013492F	TSS200;TSS200	cg12013492

WASF3	NM_006646	cg12019046R cg12024968R	Body	cg12019046 cg12024968
INPP5A	NM_005539	cg12026546F	Body	cg12026546
CASZ1;CASZ1	NM_001079843;NM_017766	cg12035827F	5'UTR;5'UTR	cg12035827
AP3D1;AP3D1	NM_001077523;NM_003938	cg12038521F	Body;Body	cg12038521
MRC2	NM_006039	cg12039583R cg12042714R cg12042864R	Body	cg12039583 cg12042714 cg12042864
AQP10	NM_080429	cg12044338F	TSS1500	cg12044338
EHD4	NM_139265	cg12045511F	Body	cg12045511
CD83;CD83	NM_004233;NM_001040280	cg12047860R	Body;Body	cg12047860
S100A11	NM_005620	cg12048339R cg12050434R	TSS1500	cg12048339 cg12050434
TNFAIP3	NM_006290	cg12050508R	3'UTR	cg12050508
CLASP1;CLASP1;CLASP	NM_001142274;NM_001142	cg12050982R	TSS200;TSS200;TSS200	cg12050982
KIFC1	NM_002263	cg12052754R	Body	cg12052754
RIC8B	NM_018157	cg12053762F	TSS1500	cg12053762
WDR74	NM_018093	cg12059507F	Body	cg12059507
ALPL;ALPL	NM_000478;NM_001127501	cg12062270F	5'UTR;TSS1500	cg12062270
LOC647979	NR_027451	cg12063218R cg12063583F	Body	cg12063218 cg12063583
SORBS2;SORBS2;SORBS	NM_003603;NM_021069;NM_021069	cg12066473F	5'UTR;5' JTR;5'UTR;1st	cg12066473
S100A7A	NM_176823	cg12067024F	TSS1500	cg12067024
SEMA6B	NM_032108	cg12068366F	Body	cg12068366
PURB	NM_033224	cg12068737F	1stExon	cg12068737
PPP1R10	NM_002714	cg12069151F	5'UTR	cg12069151
MCF2L;MCF2L	NM_001112732;NM_024979	cg12072690F	Body;Body	cg12072690
FOXN3;FOXN3	NM_005197;NM_001085471	cg12073083F cg12073177F	Body;Body	cg12073083 cg12073177
CENPV	NM_181716	cg12074093F cg12074375R	1stExon	cg12074093 cg12074375
DMTF1;DMTF1;DMTF1;DNM_021145;NM_001142327		cg12075776R	5'UTR;5'UTR;Body;Body	cg12075776
PARP4	NM_006437	cg12075849R	5'UTR	cg12075849
TMEM125	NM_144626	cg12078033R	Body	cg12078033
ZNF765	NM_001040185	cg12079923R	TSS1500	cg12079923
ARHGAP30;ARHGAP30; NM_181720;NM_001025598		cg12081303R cg12084407R cg12086421R cg12089032R cg12089490F	1stExon;5'UTR;5'UTR;1st	cg12081303 cg12084407 cg12086421 cg12089032 cg12089490
MCPH1	NM_024596	cg12090654R	Body	cg12090654
ZFP64	NM_199427	cg12097791R	Body	cg12097791
SMOC2;SMOC2	NM_022138;NM_001166412	cg12103547F cg12104661R	Body;Body	cg12103547 cg12104661
CASP10;CASP10;CASP10	NM_001230;NM_032977;NM_032977	cg12105450R	5'UTR;5'UTR;5'UTR	cg12105450
SHANK2	NM_012309	cg12109482R cg12110929R	Body	cg12109482 cg12110929
ATP6AP2	NM_005765	cg12116395F	Body	cg12116395
EXOC2	NM_018303	cg12117227R	3'UTR	cg12117227
KLC2;KLC2;KLC2;KLC2; NM_022822;NM_001134776		cg12121587R	5'UTR;5'UTR;1stExon;1st	cg12121587
PTTG1IP;PTTG1IP	NM_004339;NM_004339	cg12121965F	5'UTR;1stExon	cg12121965
C1orf92	NM_144702	cg12126706F	TSS1500	cg12126706
IER3IP1	NM_016097	cg12128262F	TSS1500	cg12128262
RPS6KB2	NM_003952	cg12128589F	Body	cg12128589

ZNF653	NM_138783	cg12132029F	1stExon	cg12132029
RGMA;RGMA;RGMA;RGNM_001166289;NM_001166		cg12136439F	Body;Body;Body;Body;	cg12136439
SPACA3	NM_173847	cg12139542F	TSS200	cg12139542
		cg12140527F		cg12140527
C2CD2	NM_015500	cg12145552F	TSS1500	cg12145552
PCDHGA4;PCDHGC3;PCNM_018917;NM_002588;NM_002588		cg12145907R	Body;Body;Body;Body;	cg12145907
		cg12147906R		cg12147906
CCRN4L	NM_012118	cg12149777R	Body	cg12149777
TRIO	NM_007118	cg12151443R	Body	cg12151443
RNF44	NM_014901	cg12152193R	3'UTR	cg12152193
		cg12152315F		cg12152315
LHX1;LHX1	NM_005568;NM_005568	cg12156885R	1stExon;5'UTR	cg12156885
CCDC64	NM_207311	cg12160087R	3'UTR	cg12160087
		cg12160233F		cg12160233
BRF1	NM_001519	cg12160741F	Body	cg12160741
		cg12162934R		cg12162934
RGS20;RGS20	NM_170587;NM_003702	cg12164472R	Body;Body	cg12164472
DHX58	NM_024119	cg12164614F	Body	cg12164614
		cg12165864F		cg12165864
		cg12168112F		cg12168112
CLDN3;CLDN3	NM_001306;NM_001306	cg12169661R	3'UTR;1stExon	cg12169661
FAM83C;FAM83C	NM_178468;NM_178468	cg12170299F	1stExon;5'UTR	cg12170299
		cg12171394R		cg12171394
TAC3	NM_013251	cg12178465F	3'UTR	cg12178465
		cg12181751R		cg12181751
		cg12182063F		cg12182063
		cg12182903R		cg12182903
		cg12184864R		cg12184864
NR4A3;NR4A3;NR4A3;NR4A3	NM_173199;NM_006981;NM_006981	cg12190044R	Body;Body;Body;Body	cg12190044
DNAJB1	NM_006145	cg12190413R	Body	cg12190413
NKAIN3	NM_173688	cg12194929F	Body	cg12194929
ATG7;ATG7;ATG7	NM_001136031;NM_001144	cg12198254F	Body;Body;Body	cg12198254
AHRR	NM_020731	cg12202185R	Body	cg12202185
ETF1	NM_004730	cg12203416R	Body	cg12203416
ERF;ERF	NM_006494;NM_006494	cg12209965F	1stExon;5'UTR	cg12209965
TTLL2;TTLL2	NM_031949;NM_031949	cg12215675F	1stExon;5'UTR	cg12215675
CLIC1;DDAH2	NM_001288;NM_013974	cg12216180R	Body;TSS1500	cg12216180
		cg12221682F		cg12221682
ZFYVE28	NM_020972	cg12221713R	Body	cg12221713
		cg12223502F		cg12223502
		cg12223801F		cg12223801
TNXB	NM_019105	cg12223960R	Body	cg12223960
		cg12226475F		cg12226475
SLC26A11;SLC26A11;SGSNM_001166347;NM_001166		cg12227505F	TSS200;TSS200;5'UTR;	cg12227505
LOC150381;C22orf26	NR_027034;NM_018280	cg12232731F	Body;TSS1500	cg12232731
UBA1;UBA1;INE1	NM_003334;NM_153280;NR_003334	cg12232738F	Body;Body;TSS1500	cg12232738
GCK;GCK;GCK	NM_000162;NM_033508;NM_033508	cg12237784F	Body;Body;Body	cg12237784
LRP1	NM_002332	cg12239218R	Body	cg12239218
IGFBP3;IGFBP3	NM_000598;NM_001013398	cg12244052R	TSS1500;TSS1500	cg12244052
DYSF;DYSF;DYSF;DYSF	NM_001130455;NM_001130	cg12245706R	Body;Body;Body;Body;Body;	cg12245706
FBRSL1	NM_001142641	cg12246530R	Body	cg12246530
		cg12248672F		cg12248672
PPP5C	NM_006247	cg12250307F	TSS1500	cg12250307
		cg12250841F		cg12250841

GLOD4;RNMTL1	NM_016080;NM_018146	cg12256311R	TSS200;1stExon	cg12256311
UCN2	NM_033199	cg12259140F	3'UTR	cg12259140
		cg12261117F		cg12261117
ZBTB45	NM_032792	cg12271800F	Body	cg12271800
CASZ1;CASZ1	NM_017766;NM_001079843	cg12275723F	TSS200;TSS200	cg12275723
HEPHL1	NM_001098672	cg12280150F	Body	cg12280150
ZNF2;ZNF2	NM_001017396;NM_021088	cg12282311F	TSS1500;TSS1500	cg12282311
AP1B1;AP1B1;AP1B1;AP1B1	NM_145730;NM_001166019	cg12282830F	1stExon;5'UTR;1stExon	cg12282830
		cg12284736F		cg12284736
MEGF11	NM_032445	cg12286910F	Body	cg12286910
		cg12289001F		cg12289001
		cg12291829F		cg12291829
TNS3	NM_022748	cg12292947F	Body	cg12292947
UXS1	NM_025076	cg12295277R	3'UTR	cg12295277
HSD17B12	NM_016142	cg12297975R	Body	cg12297975
SNRPN;SNURF;SNRPN;SNRPN	NM_022805;NM_022804;NM_022805	cg12298755F	5'UTR;TSS1500;TSS1500	cg12298755
AKT2	NM_001626	cg12299213R	TSS200	cg12299213
TRABD	NM_025204	cg12303610F	Body	cg12303610
TRIM60	NM_152620	cg12303736R	5'UTR	cg12303736
		cg12304381F		cg12304381
		cg12307722R		cg12307722
DGCR2	NM_005137	cg12314527R	TSS1500	cg12314527
TAF15;TAF15	NM_139215;NM_003487	cg12315363F	TSS1500;TSS1500	cg12315363
CUBN	NM_001081	cg12317505R	Body	cg12317505
OR4A15	NM_001005275	cg12320239R	TSS1500	cg12320239
SMAD5;SMAD5;SMAD5;SMAD5	NM_001001420;NM_005903	cg12320263F	5'UTR;5'UTR;5'UTR;TS	cg12320263
		cg12325349R		cg12325349
FBXL4	NM_012160	cg12336935F	Body	cg12336935
ZNF521	NM_015461	cg12338097R	Body	cg12338097
		cg12339133F		cg12339133
		cg12344546R		cg12344546
AMBRA1	NM_017749	cg12350342R	Body	cg12350342
SNRPD1;SNRPD1	NM_006938;NM_006938	cg12351856F	1stExon;5'UTR	cg12351856
		cg12352210R		cg12352210
TNIK;TNIK;TNIK;TNIK;TNIK	NM_001161563;NM_001161	cg12354192R	Body;Body;Body;Body;	cg12354192
ADRB2	NM_000024	cg12355862R	TSS1500	cg12355862
MAP2K5;MAP2K5;MAP2K5	NM_145160;NM_002757;NM_002757	cg12356873F	5'UTR;5'UTR;1stExon;1	cg12356873
RNF125	NM_017831	cg12358298F	TSS1500	cg12358298
CPNE4	NM_130808	cg12361744R	Body	cg12361744
TRIM13;TRIM13;TRIM13	NM_005798;NM_001007278	cg12368542R	TSS1500;TSS1500;TSS1500	cg12368542
CHD9	NM_025134	cg12368702F	5'UTR	cg12368702
		cg12373184F		cg12373184
EEF1DP3	NR_027062	cg12376772F	Body	cg12376772
LOC641367;ZNF100	NR_024523;NM_173531	cg12382363F	Body;Body	cg12382363
		cg12385482R		cg12385482
COL23A1	NM_173465	cg12385811R	Body	cg12385811
ANKRD17;ANKRD17	NM_032217;NM_198889	cg12387604F	1stExon;1stExon	cg12387604
PDE2A;PDE2A;PDE2A;PDNR	026572;NM_001146209;	cg12389545F	TSS200;Body;Body;TSS	cg12389545
		cg12389685F		cg12389685
MYH7B	NM_020884	cg12390057R	Body	cg12390057
		cg12394706R		cg12394706
		cg12394941F		cg12394941
		cg12395689F		cg12395689
TINAG	NM_014464	cg12397274F	TSS1500	cg12397274

PDLIM1	NM_020992	cg12399031F	Body	cg12399031
TCEA3	NM_003196	cg12400807F	TSS1500	cg12400807
TMEM201;TMEM201	NM_001130924;NM_001010	cg12401152F	Body;Body	cg12401152
CLEC4A;CLEC4A;CLEC4	NM_194448;NM_194450;NM_	cg12401842R	TSS200;TSS200;TSS200	cg12401842
CCDC60	NM_178499	cg12404465F	Body	cg12404465
RPN1	NM_002950	cg12405599R	TSS1500	cg12405599
ESPN	NM_031475	cg12406391F	Body	cg12406391
HSPG2	NM_005529	cg12409547R	Body	cg12409547
LPCAT1	NM_024830	cg12412255R	Body	cg12412255
SCAMP5	NM_138967	cg12414181R	TSS200	cg12414181
FOXO3;FOXO3;FOXO3	NM_001455;NM_001455;NM_	cg12416929R	5'UTR;1stExon;5'UTR	cg12416929
MACC1	NM_182762	cg12424504R	3'UTR	cg12424504
KCNQ1;KCNQ1	NM_000218;NM_181798	cg12424548F	Body;Body	cg12424548
C6orf27	NM_025258	cg12425321R	Body	cg12425321
TUBGCP4	NM_014444	cg12431453F	Body	cg12431453
		cg12432145R		cg12432145
STOX2	NM_020225	cg12432155F	Body	cg12432155
OR6M1	NM_001005325	cg12432303R	TSS1500	cg12432303
BCL10	NM_003921	cg12432846F	Body	cg12432846
PRF1;PRF1	NM_005041;NM_001083116	cg12433559F	TSS200;TSS200	cg12433559
HOXA3	NM_153631	cg12434681F	TSS1500	cg12434681
ATAD3B	NM_031921	cg12439834F	Body	cg12439834
SSBP1;FLJ40852	NM_003143;NR_015392	cg12442242F	TSS1500;Body	cg12442242
DDAH2;DDAH2	NM_013974;NM_013974	cg12442899R	1stExon;5'UTR	cg12442899
ACBD3;ACBD3	NM_022735;NM_022735	cg12446722F	5'UTR;1stExon	cg12446722
PVRL4	NM_030916	cg12447346R	Body	cg12447346
NIPA1;NIPA1	NM_144599;NM_001142275	cg12447937F	TSS1500;TSS1500	cg12447937
CTTN;CTTN	NM_005231;NM_138565	cg12450012R	3'UTR;3'UTR	cg12450012
TTLL8	NM_001080447	cg12453378R	Body	cg12453378
		cg12453585F		cg12453585
BTN2A3	NR_027795	cg12455562F	Body	cg12455562
		cg12462771F		cg12462771
SCARNA20;USP32	NR_002999;NM_032582	cg12465518F	Body;Body	cg12465518
OPRM1;OPRM1;OPRM1;	NM_001145283;NM_001008	cg12466324F	Body;Body;TSS1500;Bo	cg12466324
HOXB2	NM_002145	cg12468273F	Body	cg12468273
AGRN	NM_198576	cg12469361R	Body	cg12469361
		cg12471120R		cg12471120
		cg12472290R		cg12472290
		cg12474590F		cg12474590
HNRNPF;HNRNPF;HNRN	NM_001098205;NM_001098	cg12474983R	5'UTR;1stExon;5'UTR;5'	cg12474983
PIGG;PIGG	NM_017733;NM_001127178	cg12475106F	Body;Body	cg12475106
INSC;INSC	NM_001031853;NM_001042	cg12484534R	Body;Body	cg12484534
LILRB2;LILRB2	NM_001080978;NM_005874	cg12485793R	3'UTR;3'UTR	cg12485793
		cg12487062R		cg12487062
TMX3;CCDC102B	NM_019022;NM_001093729	cg12487792R	TSS1500;5'UTR	cg12487792
PCDHGA4;PCDHGC3;PCD	NM_018917;NM_002588;NM_	cg12487901F	Body;Body;Body;Body;B	cg12487901
RAI14;RAI14;RAI14	NM_015577;NM_001145522	cg12491657F	5'UTR;5'UTR;5'UTR	cg12491657
CXCR3;BCYRN1;CXCR3	NM_001142797;NR_001568;	cg12493424F	TSS1500;Body;TSS1500	cg12493424
OPA3;OPA3	NM_001017989;NM_025136	cg12494545F	Body;Body	cg12494545
		cg12494857R		cg12494857
FN3K	NM_022158	cg12495731F	Body	cg12495731
NCLN	NM_020170	cg12496599R	Body	cg12496599
ZNF233	NM_181756	cg12497171R	TSS1500	cg12497171
		cg12499316F		cg12499316

FAM19A5	NM_001082967	cg12502098R	Body	cg12502098
NMB;NMB	NM_021077;NM_205858	cg12502155F	TSS200;TSS200	cg12502155
JMJD6;C17orf95;JMJD6;JMN	NM_001081461;NM_001080	cg12504415F	1stExon;TSS200;5'UTR;	cg12504415
LAP3	NM_015907	cg12505184F	Body	cg12505184
FMNL2	NM_052905	cg12505929F	Body	cg12505929
NCOR2;NCOR2	NM_006312;NM_001077261	cg12509268F	Body;Body	cg12509268
SCNN1A;SCNN1A;SCNN	NM_001159575;NM_001159	cg12510724F	Body;TSS1500;5'UTR	cg12510724
		cg12516686R		cg12516686
CLPB	NM_030813	cg12520727F	Body	cg12520727
		cg12520772F		cg12520772
F2R	NM_001992	cg12524168R	Body	cg12524168
		cg12525512R		cg12525512
ARF1;ARF1;ARF1;ARF1	NM_001658;NM_001024226	cg12525736F	TSS1500;TSS1500;TSS1cg	cg12525736
		cg12525774F		cg12525774
GPR44	NM_004778	cg12528056R	3'UTR	cg12528056
		cg12528485F		cg12528485
STARD3;STARD3;STARDNM	NM_001165937;NM_006804	cg12533658R	Body;Body;Body	cg12533658
OR4A15	NM_001005275	cg12534759R	TSS200	cg12534759
GRIN2D	NM_000836	cg12546181F	Body	cg12546181
RAI1	NM_030665	cg12546785F	5'UTR	cg12546785
TRIO	NM_007118	cg12547959R	Body	cg12547959
C22orf45;C22orf45;UPB1	NR_028484;NR_028483;NM	cg12550055F	TSS200;TSS200;TSS150cg	cg12550055
SH3GLB1	NM_016009	cg12550767R	3'UTR	cg12550767
STAG3L4	NM_022906	cg12551908F	3'UTR	cg12551908
LAMC2;LAMC2	NM_018891;NM_005562	cg12552165R	TSS200;TSS200	cg12552165
		cg12556608F		cg12556608
ZNF311	NM_001010877	cg12557133F	Body	cg12557133
		cg12558269R		cg12558269
MYO1D	NM_015194	cg12561776F	Body	cg12561776
PMS2L4;STAG3L4	NR_022007;NM_022906	cg12564526R	TSS200;TSS200	cg12564526
		cg12565215R		cg12565215
RHBDF2;RHBDF2	NM_024599;NM_001005498	cg12565681F	5'UTR;5'UTR	cg12565681
		cg12565788R		cg12565788
CDH23;C10orf54	NM_022124;NM_022153	cg12568633R	Body;TSS200	cg12568633
		cg12573674R		cg12573674
PALM;PALM	NM_002579;NM_001040134	cg12573727R	Body;Body	cg12573727
GAS2	NM_001143830	cg12575928R	TSS1500	cg12575928
C1orf53	NM_001024594	cg12578211R	Body	cg12578211
NYX	NM_022567	cg12579866F	Body	cg12579866
TMEM132D	NM_133448	cg12580503R	Body	cg12580503
PDK2	NM_002611	cg12582138R	Body	cg12582138
		cg12582317F		cg12582317
		cg12582896F		cg12582896
TMEM233	NM_001136534	cg12584590R	3'UTR	cg12584590
SERPINB1	NM_030666	cg12586150F	Body	cg12586150
		cg12587618F		cg12587618
ZNF540	NM_152606	cg12589994F	Body	cg12589994
ITGA1	NM_181501	cg12594731R	Body	cg12594731
		cg12595762F		cg12595762
		cg12597233R		cg12597233
UTS2R	NM_018949	cg12598178F	1stExon	cg12598178
MOCS2;MOCS2	NM_004531;NM_176806	cg12600378R	TSS200;Body	cg12600378
COBL	NM_015198	cg12602291F	Body	cg12602291
MEP1B	NM_005925	cg12602653F	TSS200	cg12602653

MAP1D	NM_199227	cg12603650F cg12608433F cg12610098R	3'UTR	cg12603650 cg12608433 cg12610098
KCNMA1;KCNMA1;KCNMA1	NM_001161353;NM_001161	cg12614113F cg12617538R cg12619612R	Body;Body;Body;Body	cg12614113 cg12617538 cg12619612
PLEC1;PLEC1 LGI4	NM_000445;NM_201378 NM_139284	cg12621745R cg12622273R cg12623918R	Body;Body 1stExon	cg12621745 cg12622273 cg12623918
DOK6	NM_152721	cg12624274R cg12624721R	3'UTR	cg12624274 cg12624721
TTLL1;TTLL1;TTLL1 OR14J1	NR_027779;NM_012263;NM_030946	cg12627537F cg12628075R cg12629250F	Body;1stExon;5'UTR 1stExon	cg12627537 cg12628075 cg12629250
CYFIP1;CYFIP1 C1orf70	NM_014608;NM_001033028 NM_001114748	cg12629670F cg12632610R cg12634080R	Body;TSS1500 Body	cg12629670 cg12632610 cg12634080
SYNC;SYNC	NM_030786;NM_001161708	cg12634957R cg12635048R	TSS1500;TSS1500	cg12634957 cg12635048
NBEA	NM_015678	cg12638731R	Body	cg12638731
NAT2	NM_000015	cg12639234F	5'UTR	cg12639234
GPX7	NM_015696	cg12640469F	TSS1500	cg12640469
SOCS1	NM_003745	cg12642006F	TSS200	cg12642006
ODZ4	NM_001098816	cg12642289F	5'UTR	cg12642289
RERG	NM_032918	cg12642725R cg12643293R	5'UTR	cg12642725 cg12643293
ATP8B2	NM_001005855	cg12644885F cg12646386R	TSS200	cg12644885 cg12646386
MIR548F5;DCLK1	NR_031646;NM_004734	cg12646800R cg12647837F	Body;Body	cg12646800 cg12647837
PCDHGA4;PCDHGC3;PCDHGC4	NM_018917;NM_002588;NM_002589	cg12648074F cg12651851F	Body;Body;Body;TSS1500	cg12648074 cg12651851
DHX58	NM_024119	cg12653789R	Body	cg12653789
PADI1	NM_013358	cg12654045F cg12654190R	Body	cg12654045 cg12654190
OR56A4	NM_001005179	cg12656312R cg12656896R	1stExon	cg12656312 cg12656896
STK32C	NM_173575	cg12661272R	Body	cg12661272
RGS12;RGS12;RGS12	NM_198229;NM_198227;NM_198226	cg12661610F	Body;Body;Body	cg12661610
GCET2;GCET2	NM_152785;NM_001008756	cg12663553F	TSS200;TSS200	cg12663553
TMEM108;TMEM108	NM_001136469;NM_023943	cg12668122R cg12671030R	Body;Body	cg12668122 cg12671030
CACNA2D4	NM_172364	cg12671565F cg12673840R cg12678329F cg12683342R	Body	cg12671565 cg12673840 cg12678329 cg12683342
MEOX1;MEOX1;MEOX1	NM_013999;NM_001040002	cg12686920F	TSS1500;TSS1500;TSS1500	cg12686920
ZC3H3	NM_015117	cg12688965F	Body	cg12688965
PODN	NM_153703	cg12689689R	3'UTR	cg12689689
C1orf103;C1orf103	NM_018372;NM_001006945	cg12690333R cg12690496R	Body;5'UTR	cg12690333 cg12690496
TSC22D1	NM_183422	cg12694124F	Body	cg12694124
LMO2;LMO2;LMO2	NM_001142315;NM_001142	cg12695685F	Body;Body;Body	cg12695685
LLGL1	NM_004140	cg12698834F	TSS200	cg12698834

CCDC64B	NM_001103175	cg12703194F cg12705156R	TSS1500	cg12703194 cg12705156
KCNH1;KCNH1	NM_002238;NM_172362	cg12706474F	Body;Body	cg12706474
KCTD8	NM_198353	cg12709692R	Body	cg12709692
PRKCZ;PRKCZ	NM_002744;NM_001033581	cg12711627R cg12711832R cg12712184R cg12712409F cg12714759F	Body;5'UTR	cg12711627 cg12711832 cg12712184 cg12712409 cg12714759
TTC7B	NM_001010854	cg12720152R	Body	cg12720152
RNASET2	NM_003730	cg12722569F	TSS1500	cg12722569
AGAP5	NM_001144000	cg12724942F	TSS200	cg12724942
LCE1D	NM_178352	cg12725323R cg12725782F	TSS1500	cg12725323 cg12725782
ADAP1	NM_006869	cg12726277R	Body	cg12726277
DAXX;DAXX;DAXX ;DA	NM_001141970;NR_024517;	cg12727605F cg12730047F	TSS1500;TSS1500;TSS1500	cg12727605 cg12730047
TRAPPC9;TRAPPC9	NM_001160372;NM_031466	cg12737392F	Body;Body	cg12737392
CLIC6	NM_053277	cg12742338R cg12743556F cg12744812R	1stExon	cg12742338 cg12743556 cg12744812
CXADRP3	NR_024076	cg12749280R	Body	cg12749280
APOLD1	NM_001130415	cg12749787F	TSS1500	cg12749787
CREM;CREM;CREM;CREM	NM_183013;NM_182850;NM_182850	cg12754824R cg12760319F cg12760479R	5'UTR;5'UTR;5'UTR;TS	cg12754824 cg12760319 cg12760479
KIF7	NM_198525	cg12762600R	Body	cg12762600
ZSWIM5	NM_020883	cg12763094F cg12765107F	Body	cg12763094 cg12765107
CROCCL2	NR_023386	cg12765138F cg12766310R	Body	cg12765138 cg12766310
TRIM46;KRTCAP2	NM_025058;NM_173852	cg12771053F cg12771751R	TSS1500;Body	cg12771053 cg12771751
GPRC5C;GPRC5C	NM_018653;NM_022036	cg12776171R	Body;Body	cg12776171
ZER1	NM_006336	cg12777225F	TSS200	cg12777225
BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_006340	cg12784386R	Body;Body;Body;Body	cg12784386
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_181552	cg12785082R	Body;Body;Body	cg12785082
C17orf64	NM_181707	cg12788108F cg12788159R	TSS1500	cg12788108 cg12788159
MEIS2;MEIS2;MEIS2;MEIS2	NM_172316;NM_170674;NM_170674;NM_170674	cg12790758R	Body;Body;Body;Body;	cg12790758
GLT25D2	NM_015101	cg12792264F	Body	cg12792264
KRT35	NM_002280	cg12793706R cg12794109R cg12794567F	TSS1500	cg12793706 cg12794109 cg12794567
ATP11A;ATP11A	NM_015205;NM_032189	cg12796743R cg12798564R cg12799049R	Body;Body	cg12796743 cg12798564 cg12799049
TRAF5;TRAF5;TRAF5	NM_004619;NM_145759;NM_145759	cg12799170R	5'UTR;TSS1500;5'UTR	cg12799170
ST6GAL2;ST6GAL2;ST6GAL2	NM_001142352;NM_032528	cg12800781R cg12802246R	5'UTR;5'UTR;5'UTR	cg12800781 cg12802246
NSMCE2	NM_173685	cg12803053R	Body	cg12803053
C14orf102;C14orf102	NM_017970;NM_199043	cg12803108R cg12805984R cg12806892R	Body;Body	cg12803108 cg12805984 cg12806892



		cg12811575R		cg12811575
		cg12813239F		cg12813239
PHRF1;LOC143666	NM_020901;NR_026967	cg12813709R	TSS200;TSS1500	cg12813709
TNFRSF25;TNFRSF25;PLNB	NM_148965;NM_148970;NM_148971	cg12814070F	1stExon;1stExon;3'UTR;	cg12814070
U2AF1;U2AF1;U2AF1;U2AF1	NM_001025204;NM_001025205	cg12818493R	5'UTR;1stExon;1stExon;	cg12818493
MOGS;MOGS	NM_001146158;NM_006302	cg12819781F	TSS1500;TSS1500	cg12819781
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130843	cg12820461R	Body;Body;Body	cg12820461
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg12829360R	5'UTR;Body	cg12829360
TMX1	NM_030755	cg12830829R	1stExon	cg12830829
WFDC2	NM_006103	cg12831086F	Body	cg12831086
RASA2	NM_006506	cg12838843R	TSS200	cg12838843
SEC14L1;SEC14L1;SEC14L1	NM_001143999;NM_003003	cg12840847F	Body;Body;Body;Body;Body;	cg12840847
CCDC25	NM_018246	cg12844298R	Body	cg12844298
MAPK10	NM_002753	cg12845900F	TSS1500	cg12845900
PDGFRA	NM_006206	cg12845923F	Body	cg12845923
LOC728392	NM_001162371	cg12848098F	1stExon	cg12848098
FOXN3;FOXN3	NM_005197;NM_001085471	cg12848118R	3'UTR;3'UTR	cg12848118
SEMA4C	NM_017789	cg12849291F	TSS1500	cg12849291
PRPSAP2	NM_002767	cg12850695F	5'UTR	cg12850695
		cg12851190R		cg12851190
		cg12855044R		cg12855044
		cg12856433F		cg12856433
SAMM50;SAMM50	NM_015380;NM_015380	cg12867853R	1stExon;5'UTR	cg12867853
BBS7;BBS7	NM_018190;NM_176824	cg12867987R	TSS1500;TSS1500	cg12867987
ANKRD13A	NM_033121	cg12870014R	Body	cg12870014
C20orf112	NM_080616	cg12871687F	TSS1500	cg12871687
		cg12872625R		cg12872625
CDK17;CDK17	NM_001170464;NM_002595	cg12874388F	Body;Body	cg12874388
CARD10	NM_014550	cg12876009F	TSS1500	cg12876009
COL23A1	NM_173465	cg12877223R	Body	cg12877223
PTPRN2;PTPRN2;MIR595	NM_002847;NM_130842;NR_002847	cg12877853R	Body;Body;TSS200;Body;	cg12877853
CCDC57	NM_198082	cg12879038R	Body	cg12879038
DHX37	NM_032656	cg12882657F	Body	cg12882657
		cg12882999R		cg12882999
		cg12884510F		cg12884510
LPXN;LPXN	NM_001143995;NM_004811	cg12891342R	Body;TSS1500	cg12891342
ARPC4;ARPC4;ARPC4	NM_005718;NM_001024959	cg12891476R	Body;5'UTR;5'UTR	cg12891476
NEURL1B	NM_001142651	cg12891692F	Body	cg12891692
		cg12893374R		cg12893374
FAM194B	NM_182542	cg12894250R	5'UTR	cg12894250
DENND3	NM_014957	cg12895810F	TSS200	cg12895810
ZNF195;ZNF195;ZNF195	NM_001130519;NM_001130	cg12900931F	TSS200;TSS200;TSS200	cg12900931
		cg12901435R		cg12901435
		cg12902955R		cg12902955
RLBP1	NM_000326	cg12903024F	TSS1500	cg12903024
GRB10	NM_001001555	cg12903171F	5'UTR	cg12903171
MCCC1	NM_020166	cg12904680F	Body	cg12904680
RFPL2;RFPL2;RFPL2	NM_001098527;NM_001159	cg12906381F	TSS200;5'UTR;TSS1500	cg12906381
		cg12907587F		cg12907587
		cg12912022R		cg12912022
PER2	NM_022817	cg12912690F	TSS1500	cg12912690
		cg12924164R		cg12924164
		cg12924302F		cg12924302
C14orf143	NM_145231	cg12929364R	Body	cg12929364

CD226	NM_006566	cg12929678R	TSS200	cg12929678
NFATC4	NM_001136022	cg12930714R	TSS1500	cg12930714
KANK2;KANK2	NM_001136191;NM_015493	cg12933521F	Body;Body	cg12933521
ACSL1;SLED1	NM_001995;NR_003542	cg12934569R	Body;TSS200	cg12934569
RAB17	NM_022449	cg12935818R	TSS200	cg12935818
		cg12937151F		cg12937151
POLR1B;POLR1B	NM_019014;NM_001137604	cg12937159R	TSS1500;TSS1500	cg12937159
ABCC12;ABCC12	NM_033226;NM_033226	cg12940073F	5'UTR;1stExon	cg12940073
		cg12943255R		cg12943255
MIR548H4;SPESP1;NOX5	NR_031680;NM_145658;NMcg12945769F	cg12945769F	Body;TSS1500;TSS1500	cg12945769
GABARAPL3	NR_028287	cg12946560R	Body	cg12946560
SMG6;SRR;SMG6;SMG6	NM_001170957;NM_021947	cg12946690R	1stExon;TSS1500;5'UTR	cg12946690
		cg12946961F		cg12946961
		cg12947035F		cg12947035
SLC30A5;SLC30A5	NM_022902;NM_024055	cg12947103R	Body;Body	cg12947103
LTB4R;LTB4R	NM_001143919;NM_181657	cg12948771R	5'UTR;5'UTR	cg12948771
		cg12955804R		cg12955804
S1PR2	NM_004230	cg12965464F	Body	cg12965464
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg12967413R	Body;Body;Body	cg12967413
TAF4	NM_003185	cg12969315R	Body	cg12969315
PRSS42	NM_182702	cg12970662F	Body	cg12970662
MIR1275	NR_031681	cg12974668R	TSS1500	cg12974668
ZNF611;ZNF611;ZNF611;ZNF611	NM_001161500;NM_030972	cg12975330F	5'UTR;5'UTR;5'UTR;5'UTR	cg12975330
		cg12978143F		cg12978143
TAS2R38	NM_176817	cg12986639F	TSS1500	cg12986639
STARD13;STARD13;STARD13	NM_052851;NM_178007;NM_178007	cg12988946F	Body;Body;Body	cg12988946
TNIP2;TNIP2	NM_024309;NM_001161527	cg12990591F	1stExon;TSS200	cg12990591
		cg12991976F		cg12991976
		cg12994505R		cg12994505
		cg12996161F		cg12996161
PRSS48	NM_183375	cg12996417R	TSS1500	cg12996417
PYROXD1;PYROXD1	NM_024854;NM_024854	cg13000219F	1stExon;5'UTR	cg13000219
TRIM71	NM_001039111	cg13000260F	Body	cg13000260
PPIL1	NM_016059	cg13002353F	3'UTR	cg13002353
MARCH3	NM_178450	cg13003329F	Body	cg13003329
RXRA	NM_002957	cg13005613R	Body	cg13005613
		cg13009965R		cg13009965
		cg13011749R		cg13011749
		cg13024117F		cg13024117
		cg13024511F		cg13024511
CCDC88C	NM_001080414	cg13027206R	Body	cg13027206
DBX2	NM_001004329	cg13031210R	TSS200	cg13031210
		cg13036802R		cg13036802
		cg13037952F		cg13037952
TBCD	NM_005993	cg13039021F	Body	cg13039021
		cg13042462F		cg13042462
		cg13042605R		cg13042605
INTS1	NM_001080453	cg13043400R	Body	cg13043400
GOLSYN;GOLSYN;GOLSYN	NM_001099743;NM_001099	cg13045266F	Body;Body;Body;Body;5'	cg13045266
C8B	NM_000066	cg13047196R	Body	cg13047196
C2orf82;C2orf82	NM_206895;NM_206895	cg13047596F	5'UTR;1stExon	cg13047596
HSPB7	NM_014424	cg13048591F	TSS1500	cg13048591
SCARNA2	NR_003023	cg13050142F	TSS1500	cg13050142
CYFIP1;CYFIP1	NM_014608;NM_001033028	cg13051607F	Body;Body	cg13051607

ULK3	NM_001099436	cg13054419R	TSS1500	cg13054419
ID2;ID2	NM_002166;NM_002166	cg13055199R	1stExon;5'UTR	cg13055199
		cg13055278F		cg13055278
		cg13060607F		cg13060607
AGFG1;AGFG1;AGFG1;ANM_001135187;NM_001135187		cg13061886F	Body;Body;Body;Body	cg13061886
NFKBIL2	NM_013432	cg13063040F	Body	cg13063040
ABCG4;ABCG4	NM_001142505;NM_022169	cg13063614F	Body;Body	cg13063614
SIX4	NM_017420	cg13065475R	3'UTR	cg13065475
STK3	NM_006281	cg13070650F	Body	cg13070650
AGPAT1;AGPAT1	NM_006411;NM_032741	cg13071068F	5'UTR;5'UTR	cg13071068
CAMK2D;CAMK2D;CAMNM_172129;NM_001221;NM_001221		cg13076329R	5'UTR;5'UTR;1stExon;1stExon	cg13076329
		cg13082535F		cg13082535
ASAP3;ASAP3	NM_017707;NM_001143778	cg13083004F	Body;Body	cg13083004
SNORD115-19;SNORD115	NR_003311;NR_003309;NR_003309	cg13083260F	TSS1500;TSS1500;TSS1500	cg13083260
PAICS;PAICS;PAICS;PPA	NM_006452;NM_001079525	cg13086586F	Body;Body;Body;TSS1500	cg13086586
		cg13087259F		cg13087259
		cg13089318R		cg13089318
ALK	NM_004304	cg13093380F	Body	cg13093380
FLJ10357	NM_018071	cg13093389R	3'UTR	cg13093389
LOC283392;LOC283392;T	NR_026836;NR_026837;NM_001099890	cg13099890F	TSS200;TSS200;Body	cg13099890
		cg13100137F		cg13100137
FAM129A	NM_052966	cg13100449F	Body	cg13100449
		cg13101184R		cg13101184
PRDM16;PRDM16	NM_022114;NM_199454	cg13104257R	Body;Body	cg13104257
SEPT4;SEPT4;SEPT4	NM_080415;NM_080416;NM_080416	cg13105709F	3'UTR;Body;Body	cg13105709
		cg13105872R		cg13105872
TPM1;TPM1;TPM1;TPM1	NM_001018007;NM_001018007	cg13107144F	Body;Body;Body;Body;Body	cg13107144
		cg13107582R		cg13107582
CEP170;CEP170;CEP170	NM_001042404;NM_001042404	cg13116071R	Body;Body;Body	cg13116071
POM121L10P	NR_024593	cg13116086F	TSS1500	cg13116086
ZFP92	NM_001136273	cg13116097F	Body	cg13116097
C7orf23	NM_024315	cg13116816R	Body	cg13116816
LY6G6E;LY6G6D;LY6G6	NR_024541;NM_021246;NR_021246	cg13123009R	TSS200;TSS1500;TSS200	cg13123009
		cg13123165R		cg13123165
		cg13125537F		cg13125537
DEFB131	NM_001040448	cg13126378F	Body	cg13126378
		cg13126790R		cg13126790
		cg13127159F		cg13127159
		cg13131840F		cg13131840
CLCA4;CLCA4	NR_024602;NM_012128	cg13133503F	Body;Body	cg13133503
		cg13135241R		cg13135241
		cg13135376R		cg13135376
LIMD1	NM_014240	cg13148151R	Body	cg13148151
ARNT2	NM_014862	cg13148921R	Body	cg13148921
PRKRA;MIR548N;PRKRANM_003690;NR_031666;NM_003690		cg13151361F	Body;Body;Body;Body	cg13151361
		cg13159361R		cg13159361
		cg13161852F		cg13161852
NUBPL	NM_025152	cg13165928R	Body	cg13165928
MST1P2	NR_027504	cg13171718F	Body	cg13171718
VENTXP1	NR_001559	cg13172627F	TSS200	cg13172627
		cg13173369R		cg13173369
TAF4	NM_003185	cg13173722R	Body	cg13173722
INPP5A	NM_005539	cg13174051R	Body	cg13174051
MCL1;MCL1	NM_021960;NM_182763	cg13175981F	TSS1500;TSS1500	cg13175981

		cg13178295R		cg13178295
		cg13179056F		cg13179056
		cg13180152F		cg13180152
PAFAH1B1;PAFAH1B1	NM_000430;NM_000430	cg13183998R	1stExon;5'UTR	cg13183998
		cg13185745F		cg13185745
GLRX5;SNHG10;SNHG10	NM_016417;NR_003138;NR_003138	cg13186710R	1stExon;TSS1500;TSS1500	cg13186710
ROR1;ROR1	NM_005012;NM_001083592	cg13188892R	Body;Body	cg13188892
CDK2AP1	NM_004642	cg13189671F	Body	cg13189671
SYNM;SYNM	NM_145728;NM_015286	cg13191049R	1stExon;1stExon	cg13191049
THSD4	NM_024817	cg13191951R	Body	cg13191951
CRYGC;CRYGC	NM_020989;NM_020989	cg13192880R	1stExon;5'UTR	cg13192880
		cg13196216F		cg13196216
RPSAP52;HMGA2;HMGANR	NR_026825;NM_003484;NM_003484	cg13200550F	TSS1500;Body;Body	cg13200550
AGPAT1;AGPAT1	NM_006411;NM_032741	cg13201995F	Body;Body	cg13201995
		cg13202514F		cg13202514
NRXN1;NRXN1	NM_004801;NM_001135659	cg13204432R	Body;Body	cg13204432
		cg13209077F		cg13209077
		cg13215667F		cg13215667
MOCS3;DPM1	NM_014484;NM_003859	cg13216351R	TSS1500;TSS200	cg13216351
SHROOM1	NM_133456	cg13218710F	Body	cg13218710
C20orf103	NM_012261	cg13219108F	TSS200	cg13219108
RB1	NM_000321	cg13221796R	TSS1500	cg13221796
KIAA0753	NM_014804	cg13221924R	Body	cg13221924
TUBB6	NM_032525	cg13224081R	Body	cg13224081
TXNDC16;TXNDC16	NM_001160047;NM_020784	cg13224855R	5'UTR;5'UTR	cg13224855
		cg13227480F		cg13227480
FAM178B	NM_001122646	cg13231501R	TSS1500	cg13231501
		cg13243501R		cg13243501
		cg13244886F		cg13244886
TAF7L;TAF7L	NM_024885;NM_024885	cg13248004F	5'UTR;1stExon	cg13248004
ARHGAP19	NM_032900	cg13248315F	Body	cg13248315
C10orf26;C10orf26	NM_001083913;NM_017787	cg13253055R	3'UTR;3'UTR	cg13253055
DLGAP2	NM_004745	cg13259095R	5'UTR	cg13259095
RASA3	NM_007368	cg13259177R	Body	cg13259177
		cg13260976R		cg13260976
GPR68	NM_003485	cg13262513R	Body	cg13262513
KLHDC2	NM_014315	cg13267368R	TSS200	cg13267368
HDAC4	NM_006037	cg13270350F	Body	cg13270350
ZFAND2B	NM_138802	cg13270464R	Body	cg13270464
TBCD	NM_005993	cg13280079R	Body	cg13280079
RAB7A	NM_004637	cg13284070R	5'UTR	cg13284070
		cg13286525R		cg13286525
TRIO	NM_007118	cg13288599R	Body	cg13288599
CBX2	NM_005189	cg13291466F	Body	cg13291466
TSSK1B;MCC	NM_032028;NM_001085377	cg13292202R	TSS1500;Body	cg13292202
		cg13293488R		cg13293488
HDAC3	NM_003883	cg13294753F	Body	cg13294753
ZAK	NM_016653	cg13297097F	Body	cg13297097
PCDHA6;PCDHA2;PCDHA	NM_031849;NM_018905;NM_018905	cg13298827F	Body;Body;Body;Body;Body	cg13298827
		cg13299743F		cg13299743
		cg13305476R		cg13305476
BAHCC1	NM_001080519	cg13309415R	Body	cg13309415
ATP2A2;ATP2A2;ATP2A2	NM_001681;NM_170665;NM_170665	cg13314400F	Body;Body;Body	cg13314400
LOC151174;LOC151174	NR_026926;NR_026925	cg13314434F	Body;Body	cg13314434

TRIM35	NM_171982	cg13318091R	Body	cg13318091
SFMBT2	NM_001029880	cg13319501F	Body	cg13319501
GDF2;GDF2	NM_016204;NM_016204	cg13321164F cg13324357R cg13328064R cg13333233F	5'UTR;1stExon	cg13321164 cg13324357 cg13328064 cg13333233
ZNF716	NM_001159279	cg13335863F cg13340231R	TSS1500	cg13335863 cg13340231
CYTH2;CYTH2	NM_004228;NM_017457	cg13346967F	Body;Body	cg13346967
DDR1;DDR1;DDR1	NM_013994;NM_013993;NM_013993	cg13351860F	TSS200;5'UTR;5'UTR	cg13351860
SLC25A22	NM_024698	cg13352894R cg13353315R	Body	cg13352894 cg13353315
KLHL14;KLHL14	NM_020805;NM_020805	cg13353999R	5'UTR;1stExon	cg13353999
MGC26597	NR_027712	cg13357708F	TSS200	cg13357708
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_181552	cg13357821R cg13361271F	Body;Body;Body	cg13357821 cg13361271
MMP11	NM_005940	cg13361393R	TSS200	cg13361393
PKHD1;PKHD1	NM_138694;NM_170724	cg13362491F	TSS1500;TSS1500	cg13362491
WWC1;WWC1;WWC1	NM_001161662;NM_015238	cg13362794R cg13363740R cg13363969R	Body;Body;Body	cg13362794 cg13363740 cg13363969
SEMA6A	NM_020796	cg13364558F	5'UTR	cg13364558
SCUBE3	NM_152753	cg13364903F cg13366863F	TSS1500	cg13364903 cg13366863
FGFR1OP;FGFR1OP	NM_194429;NM_007045	cg13368186R	Body;Body	cg13368186
LOC145845	NR_024264	cg13368198R cg13368923F	Body	cg13368198 cg13368923
BCAT1	NM_005504	cg13369138R	Body	cg13369138
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg13369686F	Body;Body;Body	cg13369686
RPUSD2	NM_152260	cg13372712R cg13373066F	3'UTR	cg13372712 cg13373066
LOC730755	NM_001165252	cg13375427F	TSS1500	cg13375427
MPPE1	NM_023075	cg13379408F cg13385601F	TSS1500	cg13379408 cg13385601
CCNC;CCNC	NM_005190;NM_001013399	cg13387071F	TSS1500;TSS1500	cg13387071
VWCE;VWCE	NM_152718;NM_152718	cg13388111R	5'UTR;1stExon	cg13388111
RB1	NM_000321	cg13389575F cg13391740F	Body	cg13389575 cg13391740
ADAR	NM_001025107	cg13392022R cg13393001F	TSS1500	cg13392022 cg13393001
RUSC2;RUSC2	NM_001135999;NM_014806	cg13395060R	Body;Body	cg13395060
NOS1AP;NOS1AP	NM_014697;NM_001164757	cg13400077R	Body;Body	cg13400077
ACVR1B;ACVR1B;ACVR1B	NM_004302;NM_020327;NM_020327	cg13401811R cg13402292F	Body;Body;Body	cg13401811 cg13402292
AHRR	NM_020731	cg13404472R	Body	cg13404472
CYS1	NM_001037160	cg13406896F cg13408519F	TSS200	cg13406896 cg13408519
OTX1	NM_014562	cg13409575F	TSS1500	cg13409575
UBR3	NM_172070	cg13411658R	Body	cg13411658
PLEKHA8	NM_032639	cg13411879F	TSS200	cg13411879
ZNF395;ZNF395	NM_018660;NM_018660	cg13411962F cg13412154F	5'UTR;1stExon	cg13411962 cg13412154
DDX31;GTF3C4;DDX31	NM_138620;NM_012204;NM_012204	cg13412452F cg13421194F	Body;TSS1500;Body	cg13412452 cg13421194

		cg13426340R		cg13426340
IGSF21	NM_032880	cg13426876R	Body	cg13426876
PPP2R4;PPP2R4;PPP2R4;PNM_178003;NM_178000;NM		cg13429967R	Body;Body;Body;Body	cg13429967
		cg13430777R		cg13430777
PCCA;PCCA	NM_001127692;NM_000282	cg13431811F	Body;Body	cg13431811
C9orf64	NM_032307	cg13431883F	Body	cg13431883
		cg13432007R		cg13432007
LOC100132215	NR_027069	cg13433250R	TSS1500	cg13433250
NKIRAS1;RPL15;NKIRASNM_020345;NM_002948;NM		cg13433994F	5'UTR;TSS200;1stExon	cg13433994
INPP5D;INPP5D;INPP5D;INM_005541;NM_001017915		cg13434263F	5'UTR;5'UTR;1stExon;1	cg13434263
CSNK1G2	NM_001319	cg13434278F	5'UTR	cg13434278
		cg13434975F		cg13434975
		cg13435263F		cg13435263
CNBD1	NM_173538	cg13436725F	Body	cg13436725
HADHB;HADHA;HADHANM_000183;NM_000182;NM		cg13437084R	TSS200;1stExon;5'UTR	cg13437084
LGALS12;LGALS12;LGAINM_033101;NM_001142536		cg13439241R	TSS200;TSS200;TSS200	cg13439241
		cg13442388F		cg13442388
DYRK2;DYRK2	NM_006482;NM_003583	cg13442969F	Body;5'UTR	cg13442969
MYO1B;MYO1B;MYO1B	NM_001130158;NM_001161	cg13443385F	Body;Body;Body	cg13443385
DYRK1B;DYRK1B;DYRKNM_006483;NM_006484;NM		cg13444131R	5'UTR;5'UTR;5'UTR	cg13444131
		cg13444392R		cg13444392
AFG3L1;CENPBD1;AFG3	NR_003228;NM_145039;NR	cg13446235R	Body;TSS1500;Body;Bo	cg13446235
		cg13446351R		cg13446351
AGAP11	NM_133447	cg13447813R	5'UTR	cg13447813
MIR200B	NR_029639	cg13449535R	TSS1500	cg13449535
CTDP1;CTDP1	NM_048368;NM_004715	cg13453304F	Body;Body	cg13453304
DNAJB6;DNAJB6	NM_005494;NM_058246	cg13456653R	5'UTR;5'UTR	cg13456653
SP6	NM_199262	cg13457515F	TSS1500	cg13457515
PTCHD3	NM_001034842	cg13458005R	1stExon	cg13458005
SARDH;SARDH	NM_001134707;NM_007101	cg13458384R	Body;Body	cg13458384
WNT7B	NM_058238	cg13458651R	Body	cg13458651
ZNF709;ZNF709	NM_152601;NM_001145647	cg13460465F	3'UTR;3'UTR	cg13460465
		cg13460850F		cg13460850
CCDC104	NM_080667	cg13460980R	TSS1500	cg13460980
C10orf4	NM_145246	cg13461493F	Body	cg13461493
MUTYH;MUTYH;MUTYH	NM_001048172;NM_012222	cg13461762R	5'UTR;Body;Body;TSS1	cg13461762
ATF4;ATF4;ATF4;ATF4	NM_001675;NM_182810;NM	cg13462160F	5'UTR;1stExon;5'UTR;1	cg13462160
GRRP1	NM_024869	cg13462544F	TSS200	cg13462544
		cg13464393F		cg13464393
CALR	NM_004343	cg13466180R	Body	cg13466180
		cg13469590F		cg13469590
		cg13469953F		cg13469953
GAB1;GAB1	NM_002039;NM_207123	cg13471028F	Body;Body	cg13471028
PHF21A;PHF21A	NM_001101802;NM_016621	cg13471712R	3'UTR;3'UTR	cg13471712
ADRBK2	NM_005160	cg13472656R	TSS200	cg13472656
C15orf52	NM_207380	cg13474734R	Body	cg13474734
SH3BP1	NM_018957	cg13474750F	Body	cg13474750
PITPNM3;PITPNM3	NM_031220;NM_001165966	cg13475484R	Body;Body	cg13475484
CRYL1	NM_015974	cg13475977R	Body	cg13475977
S1PR1	NM_001400	cg13477354F	Body	cg13477354
C3orf21	NM_152531	cg13480578F	Body	cg13480578
MAEL	NM_032858	cg13480774F	TSS200	cg13480774
ASTN1;ASTN1	NM_207108;NM_004319	cg13480937F	Body;Body	cg13480937
		cg13482142F		cg13482142

B3GNTL1	NM_001009905	cg13482620R	Body	cg13482620
KIAA1841;KIAA1841	NM_001129993;NM_032506	cg13484946F	5'UTR;TSS200	cg13484946
RAB31	NM_006868	cg13485230R	Body	cg13485230
		cg13486600R		cg13486600
EPB41;EPB41;EPB41;EPB	NM_203343;NM_001166007	cg13487185R	1stExon;5'UTR;5'UTR;1	cg13487185
		cg13487293R		cg13487293
C8orf34	NM_052958	cg13487422R	Body	cg13487422
RXRA	NM_002957	cg13487983F	Body	cg13487983
FCN1	NM_002003	cg13490117F	Body	cg13490117
		cg13493655R		cg13493655
		cg13493781F		cg13493781
DVL1	NM_004421	cg13494355F	Body	cg13494355
		cg13498650F		cg13498650
ZCCHC24	NM_153367	cg13500206R	3'UTR	cg13500206
GYS1;GYS1;GYS1	NM_001161587;NR_027763;	cg13500842R	Body;Body;Body	cg13500842
		cg13504704R		cg13504704
		cg13511067F		cg13511067
		cg13511231F		cg13511231
C14orf153	NM_032374	cg13511324R	3'UTR	cg13511324
		cg13513157F		cg13513157
MACF1	NM_012090	cg13514129R	5'UTR	cg13514129
N6AMT2	NM_174928	cg13516017F	Body	cg13516017
		cg13516414F		cg13516414
GRIP2	NM_001080423	cg13517124F	Body	cg13517124
EBF4	NM_001110514	cg13518079R	Body	cg13518079
TPP2	NM_003291	cg13519549R	3'UTR	cg13519549
GNG10;DNAJC25-GNG10	NM_001017998;NM_004125	cg13521643F	Body;Body	cg13521643
PLA2G4C;PLA2G4C;PLA	NM_001159323;NM_003706	cg13523713F	TSS1500;TSS1500;TSS1	cg13523713
LRRC23;LRRC23;LRRC23	NM_001135217;NM_201650	cg13524209R	TSS1500;TSS1500;TSS1	cg13524209
MYO15A	NM_016239	cg13525026F	Body	cg13525026
CYP4F22	NM_173483	cg13525067F	3'UTR	cg13525067
		cg13525697R		cg13525697
		cg13529755F		cg13529755
BCL7B	NM_001707	cg13530817R	3'UTR	cg13530817
		cg13534903R		cg13534903
		cg13535485R		cg13535485
AZI1;AZI1	NM_014984;NM_001009811	cg13535852R	Body;Body	cg13535852
		cg13537146F		cg13537146
		cg13540411R		cg13540411
		cg13541457F		cg13541457
		cg13543205R		cg13543205
SPDYA;SPDYA;SPDYA;SNM	_182756;NM_001142634	cg13546935F	5'UTR;1stExon;5'UTR;1	cg13546935
DLK1	NM_003836	cg13546977R	Body	cg13546977
		cg13548313F		cg13548313
OBSCN;OBSCN	NM_052843;NM_001098623	cg13549592R	Body;Body	cg13549592
		cg13551074F		cg13551074
EDF1;EDF1	NM_003792;NM_153200	cg13551229F	TSS1500;TSS1500	cg13551229
ZNF7	NM_003416	cg13551243F	TSS200	cg13551243
CYP46A1	NM_006668	cg13551450R	3'UTR	cg13551450
EHMT1	NM_024757	cg13551841F	Body	cg13551841
CLEC2D;CLEC2D	NM_013269;NM_001004419	cg13553498R	TSS1500;TSS1500	cg13553498
GUCA1B	NM_002098	cg13553997R	Body	cg13553997
LSM2	NM_021177	cg13554030F	Body	cg13554030
DHRS4L2	NM_198083	cg13555354R	TSS200	cg13555354

CARM1	NM_199141	cg13556584R	Body	cg13556584
PRKAR1B;PRKAR1B;PRKNM	NM_001164759;NM_001164	cg13558627R	Body;Body;Body;Body;	cg13558627
KDM4B	NM_015015	cg13559217F	Body	cg13559217
		cg13559235F		cg13559235
PLA2G4C;PLA2G4C;PLA	NM_003706;NM_001159322	cg13559773R	Body;Body;Body	cg13559773
PIP5K1C	NM_012398	cg13561409R	Body	cg13561409
C9orf7;C9orf7	NM_001135775;NM_017586	cg13561918F	Body;Body	cg13561918
		cg13563070R		cg13563070
		cg13563959R		cg13563959
		cg13565129R		cg13565129
C19orf22	NM_138774	cg13565624R	TSS200	cg13565624
C5	NM_001735	cg13567360R	Body	cg13567360
ACO1	NM_002197	cg13567378R	5'UTR	cg13567378
LRCH1;LRCH1;LRCH1	NM_015116;NM_001164213	cg13568311R	3'UTR;Body;3'UTR	cg13568311
CENPP;OGN;OGN	NM_001012267;NM_033014	cg13570658F	Body;3'UTR;3'UTR	cg13570658
		cg13570861R		cg13570861
DLG2;DLG2;DLG2;DLG2	NM_001142702;NM_001142	cg13572369F	5'UTR;Body;Body;Body	cg13572369
CABC1	NM_020247	cg13572638F	Body	cg13572638
		cg13573745F		cg13573745
FLNB;FLNB;FLNB;FLNB	NM_001164319;NM_001164	cg13577407F	1stExon;1stExon;1stExo	cg13577407
ENOX1	NM_017993	cg13578043R	5'UTR	cg13578043
		cg13578306F		cg13578306
		cg13579926R		cg13579926
CENPL;CENPL;CENPL	NM_033319;NM_001127181	cg13580201R	Body;Body;Body	cg13580201
		cg13582816R		cg13582816
BEGAIN;BEGAIN	NM_001159531;NM_020836	cg13583544R	Body;Body	cg13583544
FAM125B	NM_033446	cg13585927F	Body	cg13585927
SMARCA2;SMARCA2	NM_139045;NM_003070	cg13586038F	Body;Body	cg13586038
NACC2	NM_144653	cg13588388R	5'UTR	cg13588388
WDR25;WDR25	NM_024515;NM_001161476	cg13589463F	Body;Body	cg13589463
		cg13590166R		cg13590166
		cg13590711F		cg13590711
CRB2	NM_173689	cg13591497F	Body	cg13591497
SFXN3;PDZD7	NM_030971;NM_024895	cg13591848R	TSS1500;Body	cg13591848
UBAC1	NM_016172	cg13593875R	Body	cg13593875
		cg13597865F		cg13597865
THOP1	NM_003249	cg13598193R	Body	cg13598193
ZBTB22;ZBTB22	NM_001145338;NM_005453	cg13598232F	5'UTR;5'UTR	cg13598232
		cg13598426F		cg13598426
		cg13598516R		cg13598516
		cg13599051R		cg13599051
		cg13602967F		cg13602967
GPATCH1;GPATCH1	NM_018025;NM_018025	cg13603879R	1stExon;5'UTR	cg13603879
GTF3C5;GTF3C5;GTF3C5	NM_001122823;NM_012087	cg13604008F	5'UTR;5'UTR;1stExon;1	cg13604008
		cg13604166F		cg13604166
		cg13606691F		cg13606691
RNASEL	NM_021133	cg13606991F	TSS200	cg13606991
GSS	NM_000178	cg13607138R	Body	cg13607138
SLC13A5;SLC13A5	NM_177550;NM_001143838	cg13609065F	Body;Body	cg13609065
LRIG3;LRIG3	NM_001136051;NM_153377	cg13610138R	Body;Body	cg13610138
USP6NL;USP6NL	NM_001080491;NM_014688	cg13610622R	Body;Body	cg13610622
C10orf113;NEBL	NM_001010896;NM_213569	cg13613456F	Body;Body	cg13613456
KCNAB2;KCNAB2	NM_003636;NM_172130	cg13614083F	TSS1500;TSS1500	cg13614083
		cg13617824R		cg13617824



C1orf49;C1orf49;C1orf49;CNM_032126;NM_001170723	cg13619772F cg13622068R	TSS1500;TSS1500;TSS1cg13619772 cg13622068
TMOD2;TMOD2;LYSMD NM_001142885;NM_014548	cg13627451R cg13628100R cg13630049F	TSS200;TSS200;TSS200cg13627451 cg13628100 cg13630049
RNF125 NM_017831	cg13631105R cg13631192R cg13633941F	Body cg13631105 cg13631192 cg13633941
ANXA2;ANXA2;ANXA2;NM_001136015;NM_004039	cg13634501F	5'UTR;5'UTR;Body;5'U cg13634501
NR4A3;NR4A3;NR4A3 NM_173199;NM_173198;NM_173199	cg13636189R	5'UTR;5'UTR;5'UTR cg13636189
ADSSL1 NM_152328	cg13636887R	TSS1500 cg13636887
IFT74;IFT74;IFT74;IFT74 NM_001099222;NM_001099	cg13637899F cg13638282R cg13638980F	5'UTR;5'UTR;5'UTR;5'Ucg13637899 cg13638282 cg13638980
DOT1L NM_032482	cg13643356F	Body cg13643356
EFCAB9 NM_001171183	cg13648157F	TSS1500 cg13648157
PDCD2;PDCD2 NM_144781;NM_002598	cg13649242F	TSS200;TSS200 cg13649242
MATR3;MATR3 NM_018834;NM_199189	cg13649383R	TSS1500;5'UTR cg13649383
TRIM16;TRIM16 NM_006470;NM_006470	cg13649519F cg13650062F	5'UTR;1stExon cg13649519 cg13650062
CKS2 NM_001827	cg13651859R	1stExon cg13651859
PTGES2;PTGES2;PTGES2NR_027812;NR_027811;NM_001008211;NM_021980	cg13653153F	Body;Body;Body cg13653153
TNXB NM_019105	cg13656504R	Body cg13656504
FZD5 NM_003468	cg13657659R cg13659329F	Body cg13657659 cg13659329
ECH1 NM_001398	cg13659813F	TSS1500 cg13659813
FAM32A NM_014077	cg13660670R	1stExon cg13660670
NR5A1 NM_004959	cg13661129F cg13661793F cg13662724R	TSS200 cg13661129 cg13661793 cg13662724
DMRT3 NM_021240	cg13663644F	Body cg13663644
OPTN;OPTN;OPTN;OPTN NM_001008211;NM_021980	cg13665852R	5'UTR;5'UTR;5'UTR;5'Ucg13665852
CRIP2 NM_001312	cg13667739F cg13670091R	Body cg13667739 cg13670091
AFAP1L2;AFAP1L2 NM_032550;NM_001001936	cg13670531F	Body;Body cg13670531
PSORS1C1;PSORS1C2 NM_014068;NM_014069	cg13671374R	Body;Body cg13671374
PTPRC;PTPRC;PTPRC;PTPRC NM_080921;NM_080923;NM_080923	cg13673094F cg13675319R	5'UTR;5'UTR;5'UTR;5'Ucg13673094 cg13675319
PLEKHG6;PLEKHG6 NM_001144856;NM_018173	cg13675624F	TSS1500;TSS1500 cg13675624
FAM125B NM_033446	cg13676763F	Body cg13676763
SWAP70 NM_015055	cg13678009F	TSS1500 cg13678009
EPAS1 NM_001430	cg13681847R	Body cg13681847
PAOX;PAOX;PAOX NM_207128;NM_207127;NM_207127	cg13682598F cg13684632R	Body;Body;Body cg13682598 cg13684632
KALRN NM_001024660	cg13689591F cg13690407F	Body cg13689591 cg13690407
EYA3;EYA3 NM_001990;NM_001990	cg13690588R cg13691277R	1stExon;5'UTR cg13690588 cg13691277
SLC44A4 NM_025257	cg13691744R	Body cg13691744
BRF1;BRF1 NM_001519;NM_145685	cg13692222F cg13692658F	Body;Body cg13692222 cg13692658
VSIG10;VSIG10 NM_019086;NM_019086	cg13698153F	1stExon;5'UTR cg13698153
SHROOM3 NM_020859	cg13700250R	3'UTR cg13700250
OR8I2 NM_001003750	cg13706611R	1stExon cg13706611

RCAN1;RCAN1;RCAN1	NM_203417;NM_004414;NM_004414	cg13707794R	3'UTR;3'UTR;3'UTR	cg13707794
MTA2	NM_004739	cg13708959F	TSS200	cg13708959
TBC1D2	NM_018421	cg13709496R	Body	cg13709496
DIAPH2;DIAPH2	NM_006729;NM_007309	cg13712154F	TSS1500;TSS1500	cg13712154
PTENP1	NR_023917	cg13712952F	TSS1500	cg13712952
FAM19A1	NM_213609	cg13715590F	Body	cg13715590
		cg13718387R		cg13718387
PTPRD;PTPRD	NM_002839;NM_130391	cg13721688R	5'UTR;5'UTR	cg13721688
NFKB1;NFKB1	NM_003998;NM_001165412	cg13727808R	Body;Body	cg13727808
CYB5D1	NM_144607	cg13728103R	3'UTR	cg13728103
LOC255025	NR_015400	cg13730281R	Body	cg13730281
STK32C	NM_173575	cg13730358R	Body	cg13730358
		cg13732465F		cg13732465
		cg13732893F		cg13732893
ZNF716	NM_001159279	cg13733010F	3'UTR	cg13733010
HAUS6;HAUS6	NM_017645;NM_017645	cg13739345F	1stExon;5'UTR	cg13739345
C4orf22	NM_152770	cg13740508F	Body	cg13740508
		cg13743149R		cg13743149
BTBD2	NM_017797	cg13747275F	Body	cg13747275
SLC16A3;SLC16A3;SLC16A3	NM_004207;NM_001042423	cg13747876F	Body;Body;Body	cg13747876
FLJ43950	NR_026851	cg13752558R	Body	cg13752558
		cg13753613F		cg13753613
		cg13754621F		cg13754621
DOLK;NUP188	NM_014908;NM_015354	cg13755614R	TSS200;Body	cg13755614
CACNA1D;CACNA1D;CACNA1D	NM_001128839;NM_000720	cg13757263R	Body;Body;Body	cg13757263
PTGES3	NM_006601	cg13757735F	Body	cg13757735
LETM1	NM_012318	cg13758310R	Body	cg13758310
C14orf49	NM_152592	cg13760395F	Body	cg13760395
		cg13761724R		cg13761724
		cg13761818F		cg13761818
PARD3	NM_019619	cg13761949R	Body	cg13761949
		cg13762464R		cg13762464
		cg13765807R		cg13765807
MS4A1;MS4A1	NM_152866;NM_021950	cg13765961F	TSS200;TSS200	cg13765961
		cg13767070R		cg13767070
YSK4;YSK4	NM_025052;NM_001018046	cg13767095R	Body;Body	cg13767095
SHANK2	NM_012309	cg13769609R	Body	cg13769609
		cg13770495F		cg13770495
NTN5;SEC1	NM_145807;NR_004401	cg13771219R	TSS200;Body	cg13771219
SHB	NM_003028	cg13774184F	3'UTR	cg13774184
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_002847	cg13775091R	Body;Body;Body	cg13775091
AKAP8	NM_005858	cg13775627R	Body	cg13775627
ROD1;ROD1;ROD1	NM_001163790;NM_005156	cg13781475F	Body;Body;Body	cg13781475
		cg13782443R		cg13782443
		cg13786513R		cg13786513
PHF2	NM_005392	cg13787134R	Body	cg13787134
TULP2	NM_003323	cg13788717R	TSS200	cg13788717
GALC;GALC	NM_000153;NM_001037525	cg13789423F	Body;Body	cg13789423
		cg13790427R		cg13790427
LYPD6	NM_194317	cg13793854R	5'UTR	cg13793854
GPR125	NM_145290	cg13794970F	Body	cg13794970
RIT1	NM_006912	cg13795986F	Body	cg13795986
		cg13796687R		cg13796687
LAMP1	NM_005561	cg13804476F	Body	cg13804476

BAX;BAX;BAX;BAX;BAX	NM_138763;NM_138764;NM_13804854R	cg13804854R	Body;Body;Body;Body;Body	cg13804854
		cg13805001F		cg13805001
		cg13805183R		cg13805183
BARX1	NM_021570	cg13808083R	Body	cg13808083
C4orf52;C4orf52	NM_001145432;NM_001145	cg13808325R	5'UTR;1stExon	cg13808325
		cg13808592R		cg13808592
		cg13812879F		cg13812879
FAM163B	NM_001080515	cg13814351R	TSS1500	cg13814351
		cg13815971R		cg13815971
		cg13818664R		cg13818664
C5orf42	NM_023073	cg13818875F	TSS200	cg13818875
FAM182A	NR_026713	cg13820145R	Body	cg13820145
CDC26	NM_139286	cg13821031F	5'UTR	cg13821031
TRRAP	NM_003496	cg13821173F	Body	cg13821173
TRIB1	NM_025195	cg13821176F	Body	cg13821176
FANCF	NM_022725	cg13822566F	TSS1500	cg13822566
MYT1L	NM_015025	cg13831106F	5'UTR	cg13831106
DNPEP	NM_012100	cg13831124F	TSS1500	cg13831124
DNM1;DNM1	NM_004408;NM_001005336	cg13832059R	Body;Body	cg13832059
		cg13834539R		cg13834539
TMEM145	NM_173633	cg13834567R	Body	cg13834567
RALGPS1	NM_014636	cg13834670R	5'UTR	cg13834670
		cg13835436R		cg13835436
		cg13835852F		cg13835852
		cg13837552R		cg13837552
		cg13838599R		cg13838599
GNA14	NM_004297	cg13840089F	Body	cg13840089
C14orf147	NM_138288	cg13846682R	1stExon	cg13846682
ABCA10	NM_080282	cg13849142R	Body	cg13849142
C9orf93	NM_173550	cg13849727R	Body	cg13849727
TECTA	NM_005422	cg13850762R	TSS1500	cg13850762
NDUFB6;NDUFB6	NM_182739;NM_002493	cg13852536F	Body;Body	cg13852536
		cg13852730F		cg13852730
		cg13856825R		cg13856825
DNAJB6;DNAJB6	NM_005494;NM_058246	cg13858484R	Body;Body	cg13858484
TSPAN5	NM_005723	cg13859212R	TSS1500	cg13859212
VPS33A	NM_022916	cg13864663R	Body	cg13864663
FAM111B;FAM111B;FAM111B	NM_001142704;NM_001142	cg13864937F	1stExon;5'UTR;5'UTR;1	cg13864937
		cg13865610R		cg13865610
		cg13870041R		cg13870041
HOXB2	NM_002145	cg13872950F	Body	cg13872950
STXBP4	NM_178509	cg13874701R	Body	cg13874701
HSPC159	NM_014181	cg13875287R	Body	cg13875287
		cg13875763F		cg13875763
LHX4	NM_033343	cg13877482F	Body	cg13877482
GPC5	NM_004466	cg13877944R	Body	cg13877944
SGK2;SGK2	NM_170693;NM_016276	cg13877999R	5'UTR;TSS200	cg13877999
MTERFD2;MTERFD2;MTERFD2	NR_028050;NM_182501;NM_182501	cg13878775F	Body;1stExon;5'UTR;Body	cg13878775
NR6A1;NR6A1	NM_001489;NM_033334	cg13886752F	Body;Body	cg13886752
		cg13887666R		cg13887666
FSD1L;FSD1L	NM_207647;NM_001145313	cg13888226F	Body;Body	cg13888226
MORN3	NM_173855	cg13889620F	Body	cg13889620
ATAD3A;ATAD3A;ATAD3A	NM_018188;NM_001170535	cg13893866F	Body;Body;Body	cg13893866
UBTD1	NM_024954	cg13894496R	Body	cg13894496

		cg13894747R		cg13894747
RANBP6;RANBP6;RANBNR_024094;NR_024095;NM_cg13894827R			Body;Body;1stExon	cg13894827
CACNA1C;CACNA1C;CANM_001129844;NM_001129		cg13896105F	Body;Body;Body;Body;B	cg13896105
CCDC148;CCDC148;PKP4NM_138803;NM_001171637		cg13896783F	TSS1500;TSS1500;5'UT	cg13896783
SPTLC1;SPTLC1	NM_006415;NM_178324	cg13896861F	TSS1500;TSS1500	cg13896861
VAV2;VAV2	NM_001134398;NM_003371	cg13896891F	Body;Body	cg13896891
		cg13897627F		cg13897627
		cg13899143F		cg13899143
TIAL1;TIAL1	NM_001033925;NM_003252	cg13899694F	Body;Body	cg13899694
		cg13905333R		cg13905333
TRIM29	NM_012101	cg13907859F	TSS1500	cg13907859
HIST3H2BB;HIST3H2A;HNM_175055;NM_033445;NM		cg13907959F	TSS1500;1stExon;5'UTR	cg13907959
CAMSAP1	NM_015447	cg13909998F	Body	cg13909998
PTPN14	NM_005401	cg13911862F	Body	cg13911862
		cg13912224F		cg13912224
		cg13912435F		cg13912435
FNBP1	NM_015033	cg13916261F	Body	cg13916261
AKAP2;PALM2-AKAP2;PNM_001004065;NM_147150		cg13916500R	Body;Body;Body	cg13916500
MEST;MEST;MEST;MESTNM_002402;NM_177524;NM		cg13917504F	TSS1500;5'UTR;5'UTR;E	cg13917504
COL5A1	NM_000093	cg13917918R	Body	cg13917918
PRDM12	NM_021619	cg13920768R	3'UTR	cg13920768
NUP62;NUP62;IL4I1;NUP	NM_012346;NM_016553;NM	cg13921622R	Body;Body;5'UTR;Body	cg13921622
		cg13923737F		cg13923737
SORT1	NM_002959	cg13926338F	TSS1500	cg13926338
FGFR1OP;FGFR1OP	NM_007045;NM_194429	cg13927040F	3'UTR;3'UTR	cg13927040
MYO10	NM_012334	cg13927756F	Body	cg13927756
		cg13928144R		cg13928144
		cg13928520F		cg13928520
KRT73	NM_175068	cg13928961F	1stExon	cg13928961
FGFBP1	NM_005130	cg13929970F	5'UTR	cg13929970
		cg13930656R		cg13930656
DNAJC6	NM_014787	cg13935394R	Body	cg13935394
		cg13936208F		cg13936208
MAPK13	NM_002754	cg13936968R	TSS1500	cg13936968
		cg13941474F		cg13941474
		cg13943141R		cg13943141
NR5A1	NM_004959	cg13949836R	Body	cg13949836
FAM101B	NM_182705	cg13951796R	3'UTR	cg13951796
RNF150	NM_020724	cg13953838F	Body	cg13953838
		cg13955347R		cg13955347
PLCXD3	NM_001005473	cg13957745R	Body	cg13957745
COL15A1	NM_001855	cg13963221F	Body	cg13963221
		cg13965201R		cg13965201
ESRRG	NM_001134285	cg13967702R	TSS1500	cg13967702
KCNT1	NM_020822	cg13971265F	Body	cg13971265
RANBP17	NM_022897	cg13971546R	Body	cg13971546
C20orf46	NM_018354	cg13972460F	TSS1500	cg13972460
UTRN	NM_007124	cg13972706F	Body	cg13972706
		cg13973939R		cg13973939
PARD3	NM_019619	cg13976324R	Body	cg13976324
NFIB	NM_005596	cg13977827R	Body	cg13977827
CD84	NM_003874	cg13978689R	TSS200	cg13978689
ZNF493;ZNF493;ZNF493	NM_175910;NM_001076678	cg13978929R	5'UTR;Body;Body	cg13978929
LMX1B	NM_002316	cg13979277R	Body	cg13979277

		cg13982366R		cg13982366
		cg13982546F		cg13982546
PBX3;PBX3;PBX3;PBX3	NM_001134778;NR_024123;	cg13982956R	Body;Body;Body;Body	cg13982956
OR2L8;OR2L13	NM_001001963;NM_175911	cg13984200R	1stExon;5'UTR	cg13984200
SLC27A6;SLC27A6	NM_001017372;NM_014031	cg13985726R	TSS200;TSS200	cg13985726
PCSK6;PCSK6;PCSK6;PCSNM_138324;NM_002570;NM_002570		cg13985765R	Body;Body;Body;Body;Body	cg13985765
MCART1;MCART1;MCART1;MCART1	NM_033412;NR_024872;NR_024872	cg13986249R	5'UTR;Body;Body	cg13986249
		cg13986498F		cg13986498
TIRAP;TIRAP;TIRAP;TIRAP	NM_001039661;NM_001039	cg13986503R	5'UTR;1stExon;1stExon;	cg13986503
		cg13988440R		cg13988440
RGMA;RGMA;RGMA;RGMA	NM_001166289;NM_001166	cg13990585R	Body;Body;Body;Body;Body	cg13990585
WDFY4	NM_020945	cg13990856F	Body	cg13990856
PLIN2	NM_001122	cg13990947R	TSS1500	cg13990947
ZNF367	NM_153695	cg13998226R	Body	cg13998226
SLC35F4	NM_001080455	cg13998988R	TSS200	cg13998988
ATP11A;ATP11A	NM_015205;NM_032189	cg14001871F	Body;Body	cg14001871
KTN1;KTN1;KTN1;KTN1	NM_001079521;NM_004986	cg14002714F	Body;Body;Body;Body	cg14002714
IDH3G;IDH3G	NM_174869;NM_004135	cg14002781F	3'UTR;Body	cg14002781
		cg14005019R		cg14005019
POLG;POLG;POLG;POLG	NM_001126131;NM_002693	cg14005384F	5'UTR;1stExon;1stExon;	cg14005384
		cg14008143F		cg14008143
		cg14008346R		cg14008346
MOV10L1;MOV10L1;MOV10L1	NM_001164104;NM_001164	cg14008640R	Body;Body;Body	cg14008640
TFAP2A;TFAP2A	NM_001042425;NM_003220	cg14009588F	Body;TSS200	cg14009588
		cg14010619F		cg14010619
OR11A1	NM_013937	cg14011416R	1stExon	cg14011416
SLC25A20	NM_000387	cg14014369R	Body	cg14014369
C7orf51	NM_173564	cg14014627R	Body	cg14014627
PQLC3	NM_152391	cg14014890R	Body	cg14014890
		cg14015851R		cg14015851
		cg14016326F		cg14016326
		cg14017904R		cg14017904
		cg14018797R		cg14018797
EHD3	NM_014600	cg14018959F	Body	cg14018959
		cg14020285R		cg14020285
WDR5;WDR5	NM_052821;NM_017588	cg14021717F	Body;Body	cg14021717
APBB1IP	NM_019043	cg14022711R	TSS200	cg14022711
DPT	NM_001937	cg14023874F	TSS1500	cg14023874
AMOTL1	NM_130847	cg14028143F	Body	cg14028143
E2F1	NM_005225	cg14030719F	Body	cg14030719
POU5F1B	NM_001159542	cg14035787R	1stExon	cg14035787
		cg14039020F		cg14039020
KDM4C;KDM4C;KDM4C;KDM4C	NM_015061;NM_001146694	cg14041232R	Body;Body;Body;Body	cg14041232
LMX1B	NM_002316	cg14042137F	Body	cg14042137
LDB2;LDB2	NM_001290;NM_001130834	cg14048785F	Body;Body	cg14048785
		cg14050247F		cg14050247
HCG11	NR_026790	cg14052210R	Body	cg14052210
		cg14053657F		cg14053657
		cg14054292R		cg14054292
COL6A1	NM_001848	cg14058699F	Body	cg14058699
		cg14059735R		cg14059735
ARID3C	NM_001017363	cg14059921F	TSS1500	cg14059921
ZCCHC7	NM_032226	cg14060402R	Body	cg14060402
RAB37	NM_175738	cg14066471F	Body	cg14066471

		cg14066632F		cg14066632
PMEP A1;PMEPA1;PMEPA	NM_199171;NM_199170;NM_199171	cg14067657F	5'UTR;5'UTR;Body;Body	cg14067657
		cg14068853R		cg14068853
		cg14068872F		cg14068872
		cg14069333R		cg14069333
		cg14070821R		cg14070821
SMYD5	NM_006062	cg14076860F	Body	cg14076860
EHMT1;FLJ40292;EHMT1	NM_024757;NR_024341;NM_024757	cg14077232F	Body;TSS1500;Body	cg14077232
C14orf19	NR_002937	cg14078377F	TSS1500	cg14078377
		cg14079473R		cg14079473
		cg14079705R		cg14079705
		cg14080093F		cg14080093
		cg14080881R		cg14080881
		cg14082938F		cg14082938
ADAMTSL2;ADAMTSL2	NM_014694;NM_001145320	cg14083558F	Body;Body	cg14083558
TXLNA	NM_175852	cg14084730R	5'UTR	cg14084730
		cg14086908F		cg14086908
C10orf26;C10orf26	NM_001083913;NM_017787	cg14087083F	3'UTR;3'UTR	cg14087083
KCNQ1;KCNQ1	NM_000218;NM_181798	cg14089425R	Body;Body	cg14089425
CCDC57	NM_198082	cg14090409R	Body	cg14090409
FRAS1;FRAS1	NM_025074;NM_001166133	cg14091154F	Body;Body	cg14091154
KLF3;KLF3;FLJ13197	NM_016531;NM_016531;NR_016531	cg14094333R	1stExon;5'UTR;Body	cg14094333
CALML5	NM_017422	cg14096855F	TSS1500	cg14096855
LOC554202	NR_027054	cg14097425F	Body	cg14097425
CUGBP1	NM_006560	cg14099685R	5'UTR	cg14099685
RGS3;RGS3;RGS3	NM_130795;NM_144488;NM_130795	cg14104252R	TSS200;Body;Body	cg14104252
MAML2	NM_032427	cg14107975R	TSS200	cg14107975
ATP2B3;ATP2B3	NM_021949;NM_001001344	cg14111132R	TSS1500;TSS1500	cg14111132
		cg14115431F		cg14115431
FANCC	NM_000136	cg14115740F	5'UTR	cg14115740
BAD;GPR137;GPR137;BAN	NM_032989;NM_020155;NM_032989	cg14116162F	TSS200;TSS1500;Body;	cg14116162
DOCK1	NM_001380	cg14117562R	Body	cg14117562
TFDP1;TFDP1	NR_026580;NM_007111	cg14120075F	Body;Body	cg14120075
SRGAP1	NM_020762	cg14122749R	Body	cg14122749
APOE	NM_000041	cg14123992F	TSS1500	cg14123992
RGS3;RGS3;RGS3	NM_130795;NM_144488;NM_130795	cg14124261R	TSS1500;Body;Body	cg14124261
FAM49A	NM_030797	cg14125542R	5'UTR	cg14125542
F12	NM_000505	cg14126493R	Body	cg14126493
TCL1A;TCL1A	NM_001098725;NM_021966	cg14127336R	1stExon;1stExon	cg14127336
EVPL	NM_001988	cg14127641F	Body	cg14127641
		cg14128419F		cg14128419
TOMM40;TOMM40;TOMM40	NM_001128916;NM_006114	cg14130141R	3'UTR;3'UTR;3'UTR	cg14130141
		cg14131376F		cg14131376
LOC100190939;TPT1	NR_024458;NM_003295	cg14131834F	TSS1500;Body	cg14131834
DAPK1	NM_004938	cg14134019F	Body	cg14134019
HSDL2	NM_032303	cg14135146R	Body	cg14135146
		cg14135848R		cg14135848
NME2;NME2;NME2;NME2	NM_001018137;NM_002512	cg14136186R	TSS200;TSS1500;TSS1500	cg14136186
SLC9A3	NM_004174	cg14137381F	Body	cg14137381
DEC1	NM_017418	cg14138549F	5'UTR	cg14138549
ZNF837;ZNF837	NM_138466;NM_001129730	cg14138969R	5'UTR;5'UTR	cg14138969
		cg14139551F		cg14139551
SECISBP2	NM_024077	cg14139679F	Body	cg14139679
GAK	NM_005255	cg14140403F	Body	cg14140403

CARS2	NM_024537	cg14142627F cg14145991F	Body	cg14142627 cg14145991
FHIT;FHIT	NM_001166243;NM_002012	cg14147855F cg14147903F	5'UTR;5'UTR	cg14147855 cg14147903
PI4KB	NM_002651	cg14149172F	TSS200	cg14149172
PARK7;PARK7	NM_007262;NM_001123377	cg14150803F	Body;Body	cg14150803
KCNC1;KCNC1	NM_004976;NM_001112741	cg14151995R cg14152811F	Body;Body	cg14151995 cg14152811
ODF2;ODF2;ODF2	NM_153437;NM_153437;NM_153437	cg14153126F	1stExon;5'UTR;5'UTR	cg14153126
CASC2;CASC2	NR_026940;NR_026939	cg14153677R cg14156121F	Body;Body	cg14153677 cg14156121
ZC3H11A	NM_014827	cg14156140F cg14159970F	Body	cg14156140 cg14159970
PSMG2;CEP76	NM_020232;NM_024899	cg14160804F	TSS200;TSS1500	cg14160804
MRPL19	NM_014763	cg14161995F	TSS1500	cg14161995
KIF1A	NM_004321	cg14166212R cg14167314R cg14167858F	3'UTR	cg14166212 cg14167314 cg14167858
SLC22A18;SLC22A18	NM_183233;NM_002555	cg14168614F	Body;Body	cg14168614
BICC1	NM_001080512	cg14168713R	Body	cg14168713
FAM69B	NM_152421	cg14172126F	Body	cg14172126
ARID5A	NM_212481	cg14174055R	Body	cg14174055
ITGAL;ITGAL	NM_001114380;NM_002209	cg14176836R	1stExon;1stExon	cg14176836
PALM2-AKAP2;PALM2-ANM_147150;NM_007203		cg14178013F cg14178343F cg14178937R	Body;Body	cg14178013 cg14178343 cg14178937
NTN1	NM_004822	cg14182517F	Body	cg14182517
PTTG2;TBC1D1	NM_006607;NM_015173	cg14188811R cg14189605R	TSS1500;Body	cg14188811 cg14189605
ANKS1B;ANKS1B;ANKS1B	NM_181670;NM_020140;NM_020140	cg14195216R	TSS1500;TSS1500;Body	cg14195216
VPS37C	NM_017966	cg14195377R	5'UTR	cg14195377
FAM190A	NM_001145065	cg14195606F	5'UTR	cg14195606
LATS2	NM_014572	cg14195971R	5'UTR	cg14195971
DYSF;DYSF;DYSF;DYSF	NM_001130455;NM_0011130	cg14196395R	Body;Body;Body;Body;Body	cg14196395
EFCAB5;SSH2	NM_001145053;NM_033389	cg14197205R cg14200357F	TSS200;Body	cg14197205 cg14200357
RTN4R	NM_023004	cg14201097R	Body	cg14201097
GRIN2B	NM_000834	cg14201929F	Body	cg14201929
GIPC3	NM_133261	cg14202338F	Body	cg14202338
RORC;RORC	NM_001001523;NM_005060	cg14204738F cg14207147R	TSS1500;Body	cg14204738 cg14207147
IGSF8	NM_052868	cg14210114R	3'UTR	cg14210114
SRGAP1	NM_020762	cg14211977F	Body	cg14211977
KCNMB3;KCNMB3	NM_001163677;NM_171828	cg14212852R	Body;Body	cg14212852
GDF15	NM_004864	cg14213160R	TSS1500	cg14213160
PRDM16;PRDM16	NM_022114;NM_199454	cg14216672F cg14217199F	Body;Body	cg14216672 cg14217199
CUGBP2	NM_001025077	cg14218275F	Body	cg14218275
SNORD114-22;SNORD114	NR_003215;NR_003214	cg14219236F	TSS1500;TSS1500	cg14219236
ZNF169	NM_194320	cg14220634R	TSS1500	cg14220634
NCRNA00171	NR_026751	cg14221939R cg14221970F	Body	cg14221939 cg14221970
AP3D1;AP3D1	NM_003938;NM_001077523	cg14223017F	1stExon;1stExon	cg14223017
SAFB2	NM_014649	cg14224170R	Body	cg14224170

IKZF2;IKZF2	NM_016260;NM_001079526	cg14226702F cg14227558F cg14227773R cg14227785R cg14227821R cg14231845R cg14233513F	Body;Body	cg14226702 cg14227558 cg14227773 cg14227785 cg14227821 cg14231845 cg14233513
SLC1A4;SLC1A4	NM_003038;NM_001135581	cg14233568F cg14234848F	TSS1500;5'UTR	cg14233568 cg14234848
SRD5A1P1	NR_028597	cg14239049F cg14239359F	Body	cg14239049 cg14239359
LYRM4;FARS2;LYRM4;L	NM_020408;NM_006567;NM_006567	cg14242460F	TSS1500;TSS200;TSS1500	cg14242460
BSPRY	NM_017688	cg14245185F cg14249148F	Body	cg14245185 cg14249148
KIF26A	NM_015656	cg14251173F cg14253896F	Body	cg14251173 cg14253896
UBE2A;UBE2A;UBE2A	NM_003336;NM_181777;NM_181777	cg14254545F	3'UTR;3'UTR;3'UTR	cg14254545
LAMC1	NM_002293	cg14255103F	Body	cg14255103
SLC22A3	NM_021977	cg14255768R	Body	cg14255768
TJP2;TJP2;TJP2;TJP2	NM_001170630;NM_001170630	cg14255824F cg14257396F	Body;5'UTR;Body;Body	cg14255824 cg14257396
NPHP4	NM_015102	cg14260998R	Body	cg14260998
TNXB	NM_019105	cg14263351R	Body	cg14263351
LCN1	NM_002297	cg14264159F	Body	cg14264159
CUL7;CUL7	NM_014780;NM_001168370	cg14264489F	Body;Body	cg14264489
MSMP	NM_001044264	cg14264571R	TSS1500	cg14264571
ADD1;ADD1;ADD1;ADD1	NM_001119;NM_014190;NM_001119	cg14266050R	5'UTR;5'UTR;1stExon;5'UTR	cg14266050
KCTD15;KCTD15;KCTD15	NM_001129994;NM_024076	cg14266436R cg14266586F cg14270590F	Body;Body;Body	cg14266436 cg14266586 cg14270590
EFNA2	NM_001405	cg14276006F	Body	cg14276006
EXOSC2	NM_014285	cg14280576F cg14282508F cg14284925F	3'UTR	cg14280576 cg14282508 cg14284925
PPP3R2;GRIN3A	NM_147180;NM_133445	cg14285012F cg14286320F	TSS1500;Body	cg14285012 cg14286320
DAPK1	NM_004938	cg14286732R cg14290590R cg14292552F	Body	cg14286732 cg14290590 cg14292552
PRR18;PRR18	NM_175922;NM_175922	cg14296274F	3'UTR;1stExon	cg14296274
WHSC1;WHSC1;WHSC1;	NM_133334;NM_001042424	cg14296331F cg14299696R	3'UTR;Body;Body;Body	cg14296331 cg14299696
APBA1	NM_001163	cg14300048F	3'UTR	cg14300048
SULT1C4	NM_006588	cg14300730R	TSS200	cg14300730
ZNF28	NM_006969	cg14301165F	5'UTR	cg14301165
GLIS3;GLIS3	NM_001042413;NM_152629	cg14302428F	Body;5'UTR	cg14302428
ZFC3H1	NM_144982	cg14303478F	3'UTR	cg14303478
TCF3;TCF3	NM_003200;NM_001136139	cg14304014R	Body;Body	cg14304014
ANGPTL6	NM_031917	cg14305401F	TSS1500	cg14305401
RALGAPA1;RALGAPA1;	NM_014990;NM_194301;NM_014990	cg14305454F	5'UTR;5'UTR;1stExon;1stExon	cg14305454
COL4A1	NM_001845	cg14311251R	Body	cg14311251
PTPN6;PTPN6;PTPN6	NM_080549;NM_080548;NM_080548	cg14311559F	TSS200;Body;TSS200	cg14311559
CCR3;CCR3;CCR3;CCR3;	NM_001164680;NM_001837	cg14312439F cg14313916F	1stExon;1stExon;5'UTR;	cg14312439 cg14313916



CCL15;CCL14-CCL15;CCINM_032965;NR_027922;NR_cg14316496R		cg14316668F	TSS200;TSS200;TSS200cg14316496	cg14316668
RASGEF1A	NM_145313	cg14317457F	5'UTR	cg14317457
SIM2;SIM2	NM_009586;NM_005069	cg14317513R	Body;Body	cg14317513
ARHGEF18;ARHGEF18;ANM_015318;NM_001130955		cg14318734R	5'UTR;5'UTR;1stExon	cg14318734
C10orf11	NM_032024	cg14321623R	Body	cg14321623
ACOX3;ACOX3	NM_003501;NM_001101667	cg14322233F	5'UTR;5'UTR	cg14322233
MUC5B	NM_002458	cg14329644R	Body	cg14329644
CCHCR1;CCHCR1;CCHC	NM_001105563;NM_019052	cg14331998F	Body;Body;Body	cg14331998
STX3	NM_004177	cg14333691F	3'UTR	cg14333691
		cg14334147F		cg14334147
WDR5;WDR5	NM_052821;NM_017588	cg14335478F	Body;Body	cg14335478
ARHGEF10	NM_014629	cg14336665F	5'UTR	cg14336665
		cg14336803R		cg14336803
		cg14336872F		cg14336872
		cg14337129F		cg14337129
		cg14338513R		cg14338513
SCTR	NM_002980	cg14339007R	TSS1500	cg14339007
FTCD;FTCD	NM_206965;NM_006657	cg14341051F	Body;Body	cg14341051
SH3BP5;SH3BP5	NM_001018009;NM_004844	cg14341310F	3'UTR;3'UTR	cg14341310
EPHB6	NM_004445	cg14349531R	Body	cg14349531
		cg14349871R		cg14349871
		cg14350969R		cg14350969
GRIN1;GRIN1;GRIN1	NM_000832;NM_007327;NM_007327	cg14351882F	Body;Body;Body	cg14351882
		cg14353001F		cg14353001
MDGA2	NM_001113498	cg14353218R	Body	cg14353218
ZHX2	NM_014943	cg14355321F	5'UTR	cg14355321
OR2A25	NM_001004488	cg14358164R	1stExon	cg14358164
MIR375	NR_029867	cg14358282F	TSS200	cg14358282
		cg14359689R		cg14359689
FXN;FXN;FXN	NM_001161706;NM_000144	cg14361741F	Body;Body;Body	cg14361741
SPATS2L;SPATS2L;SPATNM_015535;NM_001100424		cg14361895F	5'UTR;5'UTR;5'UTR;5'UTR	cg14361895
		cg14362416F		cg14362416
CCHCR1;CCHCR1;CCHCR1	NM_001105563;NM_019052	cg14362428F	Body;Body;Body	cg14362428
RING1	NM_002931	cg14363494R	TSS200	cg14363494
C9orf5	NM_032012	cg14364129F	TSS1500	cg14364129
		cg14365420F		cg14365420
ZNF259	NM_003904	cg14371153R	1stExon	cg14371153
SEC16A	NM_014866	cg14373702F	Body	cg14373702
KIAA1267;KIAA1267	NM_015443;NM_015443	cg14374015F	1stExon;5'UTR	cg14374015
		cg14376106F		cg14376106
		cg14380217F		cg14380217
ASB1	NM_001040445	cg14380745F	Body	cg14380745
ABR;ABR;ABR	NM_021962;NM_001092;NM_001092	cg14381452R	Body;Body;Body	cg14381452
ASTN2;ASTN2;ASTN2	NM_198187;NM_014010;NM_014010	cg14382224F	TSS1500;TSS1500;TSS1500	cg14382224
		cg14384303R		cg14384303
EPHA5;EPHA5	NM_004439;NM_182472	cg14386496R	TSS1500;TSS1500	cg14386496
SNORA10;SNORA64;RPS NR_002327;NR_002326;NM_001100424		cg14386870R	TSS1500;TSS200;Body	cg14386870
KDM2B;KDM2B	NM_032590;NM_001005366	cg14387153F	Body;Body	cg14387153
HERC2	NM_004667	cg14390018F	3'UTR	cg14390018
		cg14390263R		cg14390263
DUSP14	NM_007026	cg14390580R	3'UTR	cg14390580
		cg14391023R		cg14391023
WNK2	NM_006648	cg14391568F	Body	cg14391568

TOR2A;TOR2A;TOR2A;TOR2A	NM_001134431;NM_001085	cg14392066F	Body;Body;Body;Body	cg14392066
FBRSL1	NM_001142641	cg14392181R	Body	cg14392181
HNRNPA1;HNRNPA1;HNRNPA1	NM_002136;NM_031157;NR_001	cg14394617R	1stExon;5'UTR;Body;1stExon	cg14394617
		cg14400258F		cg14400258
RSPH10B;RSPH10B2	NM_173565;NM_001099697	cg14400821F	Body;Body	cg14400821
SLC24A2	NM_020344	cg14404146R	Body	cg14404146
ZBTB43;ZBTB43	NM_014007;NM_001135776	cg14408428R	5'UTR;5'UTR	cg14408428
WDR89;WDR89	NM_001008726;NM_080666	cg14411221F	3'UTR;3'UTR	cg14411221
VOPP1	NM_030796	cg14411527F	TSS1500	cg14411527
		cg14414865F		cg14414865
		cg14416302R		cg14416302
COL4A2	NM_001846	cg14416316F	Body	cg14416316
C9orf173	NM_001004353	cg14417067F	TSS1500	cg14417067
		cg14418857F		cg14418857
		cg14419051F		cg14419051
		cg14419869F		cg14419869
NBEAL1	NM_001114132	cg14420613F	3'UTR	cg14420613
MFAP1	NM_005926	cg14422179R	Body	cg14422179
SRCIN1	NM_025248	cg14424407R	Body	cg14424407
		cg14424582R		cg14424582
KLHL30	NM_198582	cg14425914R	Body	cg14425914
		cg14428080F		cg14428080
PGAP2;PGAP2;PGAP2;PGAP2	NM_001145438;NM_001145	cg14429394F	Body;Body;Body;Body;Body	cg14429394
GFRAL	NM_207410	cg14430410F	Body	cg14430410
STH;MAPT;MAPT;MAPT;MAPT	NM_001007532;NM_016835	cg14431592F	TSS200;Body;Body;Body	cg14431592
		cg14437092F		cg14437092
C6orf25;C6orf25;C6orf25;C6orf25	NM_138273;NM_138277;NM_138278	cg14437986R	TSS200;TSS200;TSS200;TSS200	cg14437986
CD300E;CD300E	NM_181449;NM_181449	cg14438208F	1stExon;5'UTR	cg14438208
GNAQ	NM_002072	cg14439102F	Body	cg14439102
		cg14441153R		cg14441153
		cg14441603R		cg14441603
ADK;AP3M1;AP3M1	NM_006721;NM_207012;NM_207012	cg14441964R	TSS1500;5'UTR;5'UTR	cg14441964
WDR34	NM_052844	cg14445171F	TSS1500	cg14445171
ZNF732	NM_001137608	cg14446430R	Body	cg14446430
S1PR3	NM_005226	cg14448588F	3'UTR	cg14448588
		cg14451979F		cg14451979
		cg14454338R		cg14454338
		cg14455590R		cg14455590
		cg14457074R		cg14457074
DNAH8	NM_001371	cg14464563R	Body	cg14464563
DIP2C	NM_014974	cg14466661R	Body	cg14466661
ROBO1;ROBO1;ROBO1;ROBO1	NM_001145844;NM_001145	cg14467816R	Body;Body;Body;Body	cg14467816
BAT2L1	NM_013318	cg14468508R	TSS1500	cg14468508
		cg14469155F		cg14469155
		cg14469191R		cg14469191
NDUFB6;NDUFB6	NM_182739;NM_002493	cg14472148F	TSS1500;TSS1500	cg14472148
CLCN6;CLCN6;CLCN6;CLCN6	NM_021736;NM_021737;NM_021738	cg14472778R	Body;Body;Body;Body;Body	cg14472778
		cg14474499F		cg14474499
GFI1B;GFI1B	NM_004188;NM_001135031	cg14475859F	Body;Body	cg14475859
RASGRF2	NM_006909	cg14479198F	TSS1500	cg14479198
MYH15	NM_014981	cg14479344R	Body	cg14479344
		cg14480943R		cg14480943
		cg14481336R		cg14481336
EIF2C2;EIF2C2	NM_012154;NM_001164623	cg14484434R	Body;Body	cg14484434

CREG2	NM_153836	cg14486346F	Body	cg14486346
		cg14486634R		cg14486634
NXN	NM_022463	cg14487854R	Body	cg14487854
		cg14489073R		cg14489073
KCNIP2;KCNIP2;KCNIP2	NM_173195;NM_173192;NM_173191	cg14489801F	TSS200;TSS200;TSS200	cg14489801
GPSM1;GPSM1	NM_001145638;NM_001145637	cg14489965F	Body;Body	cg14489965
HLA-DOA	NM_002119	cg14490686R	Body	cg14490686
		cg14493055F		cg14493055
		cg14493267R		cg14493267
LHX6;LHX6	NM_199160;NM_014368	cg14496753F	Body;Body	cg14496753
MAML3	NM_018717	cg14497545F	Body	cg14497545
KCNQ2;KCNQ2;KCNQ2;KCNQ2	NM_172108;NM_172106;NM_172105;NM_172104	cg14498592F	Body;Body;Body;Body;Body	cg14498592
		cg14501839F		cg14501839
		cg14502625R		cg14502625
ADAMTSL1;ADAMTSL1	NM_052866;NM_001040272	cg14502847F	Body;Body	cg14502847
WNK2	NM_006648	cg14505733F	Body	cg14505733
		cg14507100R		cg14507100
		cg14507533R		cg14507533
SLC26A5;SLC26A5;SLC26A5	NM_206885;NM_198999;NM_198998	cg14508633R	5'UTR;5'UTR;5'UTR;5'UTR	cg14508633
RGNEF;RGNEF	NM_001080479;NM_001080478	cg14509084F	1stExon;5'UTR	cg14509084
PRKD3;PRKD3	NM_005813;NM_005813	cg14509437R	5'UTR;1stExon	cg14509437
CCDC47	NM_020198	cg14511089R	Body	cg14511089
ADARB2	NM_018702	cg14511364F	Body	cg14511364
		cg14511644F		cg14511644
OR6N1	NM_001005185	cg14514991R	TSS1500	cg14514991
		cg14515779F		cg14515779
FAM120AOS;FAM120A	NM_198841;NM_014612	cg14516552R	Body;TSS1500	cg14516552
ZNF532	NM_018181	cg14517073R	3'UTR	cg14517073
HCN1	NM_021072	cg14517119R	Body	cg14517119
MRFAP1	NM_033296	cg14517917R	1stExon	cg14517917
NTNG2	NM_032536	cg14518098R	Body	cg14518098
		cg14519032F		cg14519032
CLCNKA;CLCNKA	NM_004070;NM_001042704	cg14523706F	TSS1500;TSS1500	cg14523706
ADARB1;ADARB1;ADARB1	NM_015833;NR_027674;NM_015832	cg14526825F	3'UTR;Body;3'UTR;3'UTR	cg14526825
ZNF815	NR_023382	cg14528254F	Body	cg14528254
NUDT9;NUDT9	NM_024047;NM_198038	cg14530679R	Body;Body	cg14530679
C9orf25	NM_147202	cg14531310F	Body	cg14531310
RING1	NM_002931	cg14534739F	Body	cg14534739
		cg14536372R		cg14536372
ZAP70	NM_001079	cg14537825F	Body	cg14537825
FAS;FAS;FAS;FAS;ACTA1	NM_000043;NM_152872;NR_027674	cg14538439F	1stExon;1stExon;Body;Body	cg14538439
AFAP1;AFAP1;LOC84740	NM_198595;NM_001134647	cg14543780R	Body;Body;Body	cg14543780
RXRA	NM_002957	cg14545975F	Body	cg14545975
EGFL7;EGFL7	NM_016215;NM_201446	cg14548542F	Body;Body	cg14548542
OLFM1	NM_014279	cg14549951R	Body	cg14549951
C3orf26;C3orf26	NM_032359;NM_001167924	cg14554788R	Body;Body	cg14554788
		cg14556425F		cg14556425
KIAA1530	NM_020894	cg14557232F	Body	cg14557232
RELL2;RELL2;HDAC3	NM_173828;NM_001130029	cg14558566F	TSS200;TSS200;TSS200	cg14558566
		cg14560093F		cg14560093
LOC145837	NR_026979	cg14560670R	Body	cg14560670
TSNARE1	NM_145003	cg14563732F	5'UTR	cg14563732
DPH1	NM_001383	cg14564046F	TSS200	cg14564046
		cg14564793F		cg14564793

		cg14565407F		cg14565407
		cg14566393R		cg14566393
EDF1;EDF1	NM_153200;NM_003792	cg14570006F	Body;Body	cg14570006
LONRF2	NM_198461	cg14572709F	Body	cg14572709
		cg14573056F		cg14573056
TBC1D8	NM_001102426	cg14573099F	Body	cg14573099
SLC9A9	NM_173653	cg14574489R	Body	cg14574489
GTF2H2C;GTF2H2D	NM_001098728;NM_001042	cg14574871F	5'UTR;5'UTR	cg14574871
ZNF641	NM_152320	cg14577211R	TSS1500	cg14577211
		cg14577670F		cg14577670
ERCC2;ERCC2	NM_001130867;NM_000400	cg14580081F	TSS200;TSS200	cg14580081
FTCD;FTCD	NM_206965;NM_006657	cg14581803R	TSS1500;TSS1500	cg14581803
		cg14582248R		cg14582248
SH2D3C;SH2D3C;SH2D3C	NM_005489;NM_001142531	cg14582501R	Body;5'UTR;5'UTR;Bod	cg14582501
PACRG;PACRG;PACRG;PNM_152410;NM_001080379		cg14584255F	Body;1stExon;Body;TSS	cg14584255
GPR21;RABGAP1	NM_005294;NM_012197	cg14584535F	1stExon;Body	cg14584535
BATF3	NM_018664	cg14588027F	Body	cg14588027
		cg14589911F		cg14589911
		cg14592072F		cg14592072
		cg14592752R		cg14592752
SHANK2;SHANK2	NM_012309;NM_133266	cg14594696R	Body;Body	cg14594696
RAD50;RAD50	NM_133482;NM_005732	cg14597804R	Body;Body	cg14597804
NDOR1;NDOR1;NDOR1; NM_001144028;NM_001144		cg14608454R	Body;Body;Body;Body	cg14608454
SNRNP27	NM_006857	cg14608581R	Body	cg14608581
LOC440910	NR_030728	cg14608722F	Body	cg14608722
		cg14609568F		cg14609568
FAM46B	NM_052943	cg14610217R	Body	cg14610217
SGIP1	NM_032291	cg14610403R	TSS1500	cg14610403
EFNA1;EFNA1	NM_182685;NM_004428	cg14612733F	Body;Body	cg14612733
TNFRSF9	NM_001561	cg14614416F	TSS1500	cg14614416
		cg14618762R		cg14618762
ZSCAN5A	NM_024303	cg14621843F	TSS200	cg14621843
		cg14623381R		cg14623381
KIAA1671	NM_001145206	cg14625095F	3'UTR	cg14625095
		cg14628803F		cg14628803
CYP51A1;CYP51A1	NM_001146152;NM_000786	cg14630237R	3'UTR;3'UTR	cg14630237
URM1;URM1	NM_030914;NM_001135947	cg14630692F	Body;Body	cg14630692
CENPP	NM_001012267	cg14631576R	Body	cg14631576
APBA1	NM_001163	cg14631997F	Body	cg14631997
		cg14632906R		cg14632906
GABBR2	NM_005458	cg14633800R	Body	cg14633800
		cg14637111F		cg14637111
		cg14637553R		cg14637553
CENPP;ASPEN	NM_001012267;NM_017680	cg14639562F	Body;3'UTR	cg14639562
RABEP1;RABEP1;RABEP	NM_001083585;NM_004703	cg14640386F	1stExon;1stExon;5'UTR;	cg14640386
TCF7;TCF7;TCF7;TCF7;TCF7	NM_003202;NM_201632;NM_201632	cg14641600R	3'UTR;3'UTR;3'UTR;3'UTR;	cg14641600
LOC100287834	NR_028349	cg14644941F	Body	cg14644941
AIG1	NM_016108	cg14646893F	Body	cg14646893
TCTE1	NM_182539	cg14647580F	Body	cg14647580
CLIC1;DDAH2	NM_001288;NM_013974	cg14647877R	Body;TSS1500	cg14647877
		cg14648311R		cg14648311
YY1AP1;YY1AP1	NM_139119;NM_139118	cg14649652R	3'UTR;3'UTR	cg14649652
		cg14650677R		cg14650677
ZACN	NM_180990	cg14651919R	TSS200	cg14651919

IDUA	NM_000203	cg14652227F cg14652403F cg14655471F	Body	cg14652227 cg14652403 cg14655471
PEX10;PEX10	NM_002617;NM_153818	cg14657417R cg14658607R	TSS200;TSS200	cg14657417 cg14658607
SLC39A3;SLC39A3 TP73;TP73;TP73;TP73	NM_213568;NM_144564 NM_001126240;NM_005427	cg14659082F cg14660788R cg14662522F	TSS1500;TSS1500 Body;Body;Body;Body	cg14659082 cg14660788 cg14662522
PROCA1	NM_152465	cg14676825F cg14677013R	TSS200	cg14676825 cg14677013
GRTP1	NM_024719	cg14678744R cg14683055F cg14684166R	Body	cg14678744 cg14683055 cg14684166
EML3;ROM1;ROM1	NM_153265;NM_000327;NM_000327	cg14684917F cg14687660F cg14688113R	TSS200;1stExon;5'UTR	cg14684917 cg14687660 cg14688113
UGT2B7	NM_001074	cg14688178F	Body	cg14688178
C3orf70;C3orf70	NM_001025266;NM_001025	cg14688588R	1stExon;5'UTR	cg14688588
SERPING1;SERPING1	NM_000062;NM_001032295	cg14691871F	3'UTR;3'UTR	cg14691871
TNFAIP8;TNFAIP8	NM_014350;NM_001077654	cg14692284R	Body;Body	cg14692284
RINL	NM_198445	cg14692552F	5'UTR	cg14692552
NKTR	NM_005385	cg14694085F	Body	cg14694085
SLC25A40;DBF4;DBF4	NM_018843;NM_006716;NM_006716	cg14698352R	TSS200;1stExon;5'UTR	cg14698352
CCDC144A	NM_014695	cg14701008F cg14701018R cg14702307R cg14702372R cg14702570R	TSS1500	cg14701008 cg14701018 cg14702307 cg14702372 cg14702570
INSC;INSC	NM_001031853;NM_001042	cg14702589R	Body;TSS1500	cg14702589
B9D2	NM_030578	cg14705208R cg14706226R cg14707231R cg14709234F cg14709543F	Body	cg14705208 cg14706226 cg14707231 cg14709234 cg14709543
BRPF1;BRPF1;BRPF1;BRPF1	NM_001003694;NM_001003	cg14712964R	1stExon;5'UTR;5'UTR;1stExon	cg14712964
MARCH6	NM_005885	cg14715482F	Body	cg14715482
DUSP7	NM_001947	cg14716208R	Body	cg14716208
MARCH8;MARCH8	NM_001002265;NM_145021	cg14716689F	5'UTR;5'UTR	cg14716689
OR4A15	NM_001005275	cg14716792F cg14720024F	TSS1500	cg14716792 cg14720024
SOCS3	NM_003955	cg14721618F	TSS200	cg14721618
SCUBE1	NM_173050	cg14721708R	Body	cg14721708
SH3GL1	NM_003025	cg14723307R	3'UTR	cg14723307
KRTAP3-3	NM_033185	cg14724469R	1stExon	cg14724469
SEPT11	NM_018243	cg14727650F	Body	cg14727650
CASP8AP2;CASP8AP2;CASP8AP2	NM_001137667;NM_012115	cg14728024R	5'UTR;5'UTR;5'UTR	cg14728024
CUGBP2;CUGBP2;CUGBP2	NM_001025076;NM_006561	cg14729148F	Body;Body;Body;Body	cg14729148
SLC35E1	NM_024881	cg14729961F cg14730704F cg14732376F cg14732789R	3'UTR	cg14729961 cg14730704 cg14732376 cg14732789
B3GNT3	NM_014256	cg14733031R	TSS1500	cg14733031
KLK6;KLK6;KLK6	NM_001012964;NM_001012	cg14734614R	TSS1500;TSS1500;TSS1500	cg14734614
ZBTB12	NM_181842	cg14734916F	Body	cg14734916

KCNB1	NM_004975	cg14736210R	1stExon	cg14736210
MICAL3;MICAL3	NM_015241;NM_001122731	cg14736248F cg14737125R	Body;Body	cg14736248 cg14737125
ZNF317	NM_020933	cg14737370F	Body	cg14737370
LRRC24;LRRC14	NM_001024678;NM_014665	cg14739437R	Body;3'UTR	cg14739437
SLC25A2;SLC25A2	NM_031947;NM_031947	cg14739664F	1stExon;5'UTR	cg14739664
COL22A1	NM_152888	cg14740417R cg14744141F cg14747550F cg14748636F	3'UTR	cg14740417 cg14744141 cg14747550 cg14748636
LTBP3;LTBP3;LTBP3	NM_001164266;NM_021070	cg14749448R	TSS200;TSS200;TSS200	cg14749448
RDH10	NM_172037	cg14751552F	Body	cg14751552
ANKRD30B	NM_001145029	cg14754243F cg14754713F cg14756006R cg14758680R	TSS1500	cg14754243 cg14754713 cg14756006 cg14758680
NINJ2	NM_016533	cg14760797F cg14762316R	Body	cg14760797 cg14762316
ATF6B;ATF6B;FKBPL	NM_004381;NM_001136153	cg14762784F	TSS1500;TSS1500;Body	cg14762784
ZSWIM2	NM_182521	cg14762973F cg14768747F cg14768923F	TSS200	cg14762973 cg14768747 cg14768923
ASAP2;ASAP2	NM_001135191;NM_003887	cg14769962F	Body;Body	cg14769962
CASS4;CASS4;CASS4;CANM_001164115;NM_001164	NM_001164115;NM_001164	cg14770407R	TSS200;TSS200;TSS200	cg14770407
GUF1	NM_021927	cg14770719R	3'UTR	cg14770719
GLP1R	NM_002062	cg14772118R	TSS200	cg14772118
CD38	NM_001775	cg14773480F cg14777507F	Body	cg14773480 cg14777507
CTSF	NM_003793	cg14778137R	TSS200	cg14778137
NADK	NM_023018	cg14778560F	Body	cg14778560
CDKN2AIPNL	NM_080656	cg14779106R cg14779327R	1stExon	cg14779106 cg14779327
BANK1;BANK1;BANK1	NM_001127507;NM_017935	cg14779735F	Body;Body;5'UTR	cg14779735
SNORD115-15;SNORD11	NR_003307;NR_003313;NR_003313	cg14780883F cg14781443R	Body;Body;TSS1500	cg14780883 cg14781443
PHF14;PHF14	NM_001007157;NM_014660	cg14782543R cg14783184F	Body;Body	cg14782543 cg14783184
MIR517A	NR_030201	cg14787112F	TSS1500	cg14787112
SH3BGRL3	NM_031286	cg14788334F	TSS200	cg14788334
THUMPDI	NM_017736	cg14791747F	1stExon	cg14791747
TERT;TERT	NM_198255;NM_198253	cg14793430R	Body;Body	cg14793430
FKRP;FKRP;STRN4;STRN4	NM_001039885;NM_024301	cg14799446R	5'UTR;5'UTR;TSS1500;TSS1500	cg14799446
APBA3	NM_004886	cg14799489R	Body	cg14799489
ZNF506;ZNF506	NM_001099269;NM_001145	cg14801158R	TSS200;TSS200	cg14801158
PWWP2A;PWWP2A	NM_001130864;NM_052927	cg14803350R cg14806418R cg14806752F	1stExon;1stExon	cg14803350 cg14806418 cg14806752
DNAJC3	NM_006260	cg14806867F cg14808571F	TSS200	cg14806867 cg14808571
PLD3;PLD3;C19orf47	NM_012268;NM_001031696	cg14808759F cg14811551R	TSS1500;TSS1500;5'UTR	cg14808759 cg14811551
PLIN3;PLIN3;PLIN3	NM_001164194;NM_001164	cg14817241F	Body;Body;Body	cg14817241
FOLR1;FOLR1;FOLR1;FONM_000802;NM_016724;NM_016724	NM_000802;NM_016724;NM_016724	cg14818960F	5'UTR;5'UTR;5'UTR;TS	cg14818960
POLR3K	NM_016310	cg14820573R	Body	cg14820573

MRPL16	NM_017840	cg14822525F	TSS1500	cg14822525
EEF1D;EEF1D;TIGD5;EENM_032378;NM_001130055		cg14824382F	TSS1500;TSS1500;1stE	cg14824382
		cg14824750F		cg14824750
SHANK2	NM_012309	cg14829063R	Body	cg14829063
OR2B11	NM_001004492	cg14830002R	TSS1500	cg14830002
PCSK6;PCSK6;PCSK6;PC	NM_002570;NM_138320;NM_001085R	cg14831085R	Body;Body;Body;Body;	cg14831085
ANKRD56;ANKRD56	NM_001029870;NM_001029	cg14832661R	3'UTR;1stExon	cg14832661
ALDH9A1	NM_000696	cg14834865R	Body	cg14834865
PAPLN	NM_173462	cg14834903F	Body	cg14834903
CARS2	NM_024537	cg14835113R	Body	cg14835113
RSU1;RSU1;RSU1;RSU1	NM_012425;NM_012425;NM_012425;NM_012425	cg14835575R	1stExon;5'UTR;5'UTR;1	cg14835575
DPPA4	NM_018189	cg14836960R	TSS200	cg14836960
HRH1;HRH1;HRH1;HRH1	NM_000861;NM_001098213	cg14837082R	5'UTR;5'UTR;5'UTR;5'U	cg14837082
SYNPO;SYNPO;SYNPO;SNM_001166209;NM_001166		cg14838070F	3'UTR;3'UTR;Body;3'U	cg14838070
DEFB104B;DEFB104A	NM_001040702;NM_080389	cg14839256R	TSS1500;TSS1500	cg14839256
		cg14839808R		cg14839808
TNFRSF10B;TNFRSF10B;NM_147187;NR_027140;NM_001063R		cg14840163R	Body;Body;Body	cg14840163
HABP2	NM_004132	cg14840429R	TSS1500	cg14840429
CYYR1	NM_052954	cg14843731F	Body	cg14843731
FOXP1;FOXP1	NM_032682;NM_001012505	cg14843831F	5'UTR;5'UTR	cg14843831
SEPT9;SEPT9;SEPT9;SEPT9	NM_001113492;NM_001113	cg14843920R	Body;5'UTR;Body;Body	cg14843920
		cg14845658R		cg14845658
C1QL4	NM_001008223	cg14846292F	3'UTR	cg14846292
PACS2;PACS2	NM_015197;NM_001100913	cg14851496F	Body;Body	cg14851496
FAM193A	NM_003704	cg14853282R	TSS1500	cg14853282
RAI14;RAI14;RAI14;RAI14	NM_001145525;NM_001145	cg14854112F	Body;Body;Body;Body;	cg14854112
SARM1	NM_015077	cg14854355R	Body	cg14854355
SOX7	NM_031439	cg14855657F	Body	cg14855657
		cg14856191F		cg14856191
		cg14857063R		cg14857063
		cg14857615R		cg14857615
		cg14857764F		cg14857764
PANK4	NM_018216	cg14858763R	Body	cg14858763
GABRB3;GABRB3	NM_000814;NM_021912	cg14859324R	Body;Body	cg14859324
		cg14862612F		cg14862612
		cg14863101F		cg14863101
		cg14865407R		cg14865407
MTSS1L	NM_138383	cg14866866R	Body	cg14866866
NLRP7;NLRP7;NLRP7	NM_001127255;NM_139176	cg14876043F	5'UTR;5'UTR;5'UTR	cg14876043
DMTF1;DMTF1;DMTF1;DNM_021145;NM_001142327		cg14881187R	5'UTR;5'UTR;Body;Bod	cg14881187
TNFRSF13C	NM_052945	cg14884931F	TSS1500	cg14884931
		cg14886405R		cg14886405
TRAF3;TRAF3;TRAF3	NM_145726;NM_003300;NM_001085R	cg14886849R	Body;Body;Body	cg14886849
DLGAP3	NM_001080418	cg14887752F	1stExon	cg14887752
ALS2CL;ALS2CL	NM_147129;NM_182775	cg14889682F	Body;Body	cg14889682
KLHL14	NM_020805	cg14891195R	TSS200	cg14891195
		cg14895559F		cg14895559
RAB40B;RAB40B	NM_006822;NM_006822	cg14899563R	5'UTR;1stExon	cg14899563
TLE3;TLE3;TLE3	NM_020908;NM_001105192	cg14903685R	TSS1500;TSS1500;TSS1	cg14903685
CALHM3	NM_001129742	cg14904586R	1stExon	cg14904586
KRTAP4-4	NM_032524	cg14905403R	TSS1500	cg14905403
		cg14905514R		cg14905514
TRHDE	NM_013381	cg14905634F	3'UTR	cg14905634
		cg14907066R		cg14907066

		cg14909201R		cg14909201
LOC150776	NR_026922	cg14910854F	Body	cg14910854
IFNAR1	NM_000629	cg14911223F	Body	cg14911223
CDYL	NR_026590	cg14913512R	Body	cg14913512
		cg14914422R		cg14914422
GRK7	NM_139209	cg14914739F	1stExon	cg14914739
		cg14914924R		cg14914924
ITM2B	NM_021999	cg14925260F	TSS200	cg14925260
		cg14927405F		cg14927405
CADPS2;CADPS2;CADPS	NM_001009571;NM_001167	cg14928241F	Body;Body;Body	cg14928241
WDR37	NM_014023	cg14929913F	Body	cg14929913
AIFM2	NM_032797	cg14930471R	Body	cg14930471
JAKMIP3	NM_001105521	cg14932408F	3'UTR	cg14932408
SHROOM3	NM_020859	cg14934522R	Body	cg14934522
		cg14937489R		cg14937489
MRPS9	NM_182640	cg14948379F	Body	cg14948379
SUMF2;SUMF2;SUMF2;SUMF2	NM_001042470;NM_001146	cg14948434R	Body;5'UTR;Body;Body	cg14948434
HTN3	NM_000200	cg14948804F	5'UTR	cg14948804
KIAA0649	NM_014811	cg14952920R	Body	cg14952920
AGK	NM_018238	cg14953379R	Body	cg14953379
		cg14953536F		cg14953536
SPAG4	NM_003116	cg14961385R	1stExon	cg14961385
SNORD56B	NR_001276	cg14962447R	TSS1500	cg14962447
RRM2B	NM_015713	cg14963498R	Body	cg14963498
CYC1	NM_001916	cg14964403R	TSS1500	cg14964403
PDE4A;PDE4A	NM_001111307;NM_001111	cg14965524R	Body;TSS1500	cg14965524
		cg14965634F		cg14965634
PREPL;PREPL;C2orf34;PRN	NM_006036;NM_001171617	cg14965979R	TSS1500;1stExon;TSS200	cg14965979
		cg14966362R		cg14966362
		cg14970311R		cg14970311
CCDC50;CCDC50;UTS2D	NM_174908;NM_178335;NM_178335	cg14972328R	TSS200;TSS200;5'UTR	cg14972328
MFSD10;MFSD10;MFSD10	NM_001146069;NM_001120	cg14973995R	5'UTR;1stExon;5'UTR	cg14973995
C11orf9;C11orf9	NM_013279;NM_001127392	cg14981432R	3'UTR;3'UTR	cg14981432
RAD51L1;RAD51L1;RAD51L1	NM_133509;NM_002877;NM_002877	cg14983684R	Body;Body;Body	cg14983684
ID2	NM_002166	cg14984257F	1stExon	cg14984257
		cg14984664F		cg14984664
TNFRSF19	NM_148957	cg14985741F	3'UTR	cg14985741
GAPT	NM_152687	cg14989252R	TSS1500	cg14989252
C11orf49;C11orf49;C11orf49	NM_001003677;NM_024113	cg14990438F	Body;Body;Body;Body	cg14990438
TSSK1B;MCC	NM_032028;NM_001085377	cg14990644F	TSS1500;Body	cg14990644
		cg14992768F		cg14992768
		cg14995492R		cg14995492
CYTH3	NM_004227	cg14995774F	3'UTR	cg14995774
TAP2;TAP2	NM_000544;NM_018833	cg14997446R	Body;Body	cg14997446
OSGEPL1	NM_022353	cg14997582F	3'UTR	cg14997582
HDAC2	NM_001527	cg15005908F	TSS1500	cg15005908
CENPF	NM_016343	cg15009294F	Body	cg15009294
		cg15012161F		cg15012161
KRTAP4-9	NM_001146041	cg15015397R	TSS1500	cg15015397
C21orf29;KRTAP12-3	NM_144991;NM_198697	cg15021280F	Body;TSS1500	cg15021280
		cg15021882R		cg15021882
ANKRD30A	NM_052997	cg15023313F	TSS200	cg15023313
PACSIN3	NM_016223	cg15026026F	TSS200	cg15026026
EXOC3	NM_007277	cg15026243R	Body	cg15026243



		cg15027050R		cg15027050
		cg15027295F		cg15027295
LOC100130331	NR_027247	cg15028479R	Body	cg15028479
SYCP2L	NM_001040274	cg15032462R	Body	cg15032462
PLEKHA8	NM_032639	cg15034962F	3'UTR	cg15034962
GLTSCR1	NM_015711	cg15038241F	5'UTR	cg15038241
PML;PML;PML;PML;PML	NM_033247;NM_033244;NM_033243;NM_033242;NM_033241	cg15038331F	Body;Body;Body;Body;Body;Body	cg15038331
MEP1A	NM_005588	cg15040616F	Body	cg15040616
C6orf136;C6orf136;C6orf136	NM_001161376;NM_145029	cg15045771F	Body;Body;Body	cg15045771
FGF18	NM_003862	cg15046927F	Body	cg15046927
ARID1A;ARID1A	NM_006015;NM_139135	cg15050577F	Body;Body	cg15050577
CDCA7L;CDCA7L;CDCA7L	NM_001127371;NM_018719	cg15052277R	Body;Body;5'UTR	cg15052277
		cg15054838R		cg15054838
VGLL4	NM_014667	cg15055890R	5'UTR	cg15055890
ZNF83	NR_003936	cg15055922F	TSS200	cg15055922
MIIP	NM_021933	cg15059389F	TSS200	cg15059389
SRP9;SRP9	NM_001130440;NM_003133	cg15064019F	1stExon;1stExon	cg15064019
ZNF662;ZNF662	NM_001134656;NM_207404	cg15064753F	3'UTR;3'UTR	cg15064753
BMPR2	NM_001204	cg15066179F	Body	cg15066179
GABRB3;GABRB3	NM_000814;NM_021912	cg15066197R	Body;Body	cg15066197
		cg15066881R		cg15066881
ATF1	NM_005171	cg15066992F	5'UTR	cg15066992
		cg15067764R		cg15067764
STIM1	NM_003156	cg15069471R	Body	cg15069471
GPR133	NM_198827	cg15074032F	Body	cg15074032
		cg15074092R		cg15074092
		cg15075128R		cg15075128
CCDC48	NM_024768	cg15075226R	Body	cg15075226
LRRC7	NM_020794	cg15077416R	Body	cg15077416
BRE;RBKS;LOC10030265	NM_199193;NM_022128;NR_001000	cg15078838F	5'UTR;TSS1500;TSS1500	cg15078838
COL11A2;COL11A2;COL11A2	NM_080679;NM_080681;NM_080682	cg15081128F	Body;Body;Body	cg15081128
ZNF608	NM_020747	cg15082166F	Body	cg15082166
		cg15087459R		cg15087459
TSLP	NM_033035	cg15089387F	TSS1500	cg15089387
MED13	NM_005121	cg15090714R	TSS1500	cg15090714
LRRC43;LRRC43	NM_152759;NM_001098519	cg15091123F	Body;Body	cg15091123
		cg15095771F		cg15095771
C1orf159	NM_017891	cg15099245R	Body	cg15099245
ZNF441	NM_152355	cg15106226R	Body	cg15106226
ACBD6	NM_032360	cg15107887R	Body	cg15107887
NBR1;NBR1;NBR1	NM_031858;NM_031862;NM_031866	cg15109179F	5'UTR;5'UTR;TSS200	cg15109179
LOX	NM_002317	cg15111469F	TSS1500	cg15111469
		cg15112442F		cg15112442
		cg15112952R		cg15112952
		cg15115413F		cg15115413
		cg15121304F		cg15121304
		cg15122358F		cg15122358
GRIN1;GRIN1;GRIN1	NM_000832;NM_007327;NM_007328	cg15122716R	Body;Body;Body	cg15122716
		cg15123761R		cg15123761
CDC34	NM_004359	cg15124432R	Body	cg15124432
		cg15125053F		cg15125053
		cg15125981R		cg15125981
ANKRD39	NM_016466	cg15133824F	TSS200	cg15133824
TTN;TTN;TTN;TTN;TTN	NM_133379;NM_133378;NM_133377;NM_133376;NM_133375	cg15133917R	TSS1500;TSS1500;TSS1500;TSS1500;TSS1500	cg15133917

		cg15135241R		cg15135241
		cg15136492R		cg15136492
VPS53;VPS53	NM_018289;NM_001128159	cg15137213F	Body;Body	cg15137213
GLRX3	NM_006541	cg15138986R	Body	cg15138986
SNORA10;RPS2	NR_002327;NM_002952	cg15139008R	Body;Body	cg15139008
ZC3H3	NM_015117	cg15144540F	Body	cg15144540
FGF14	NM_175929	cg15144817R	Body	cg15144817
IZUMO1	NM_182575	cg15146515R	TSS1500	cg15146515
POU2F1	NM_002697	cg15151364R	5'UTR	cg15151364
MYT1L	NM_015025	cg15153068R	5'UTR	cg15153068
GHRHR;GHRHR	NM_000823;NM_001009824	cg15153131F	TSS1500;TSS1500	cg15153131
GABBR1;GABBR1;GABB	NM_021904;NM_021903;NM_021904	cg15154411F	Body;Body;Body	cg15154411
OR5H14	NM_001005514	cg15154635R	1stExon	cg15154635
ZNF311	NM_001010877	cg15155051R	Body	cg15155051
EPHX4	NM_173567	cg15156367F	TSS1500	cg15156367
WDR33	NM_018383	cg15160873F	Body	cg15160873
		cg15162320R		cg15162320
ARHGEF10	NM_014629	cg15164048F	Body	cg15164048
		cg15166079F		cg15166079
TAPBP;TAPBP;TAPBP	NM_172209;NM_003190;NM_003190	cg15166642R	Body;Body;Body	cg15166642
ARL6IP5	NM_006407	cg15166900F	TSS1500	cg15166900
TSNARE1	NM_145003	cg15168294R	Body	cg15168294
JAZF1	NM_175061	cg15170557R	Body	cg15170557
		cg15172814F		cg15172814
B4GALNT4	NM_178537	cg15174440F	TSS1500	cg15174440
SCRIB;SCRIB	NM_015356;NM_182706	cg15174926R	Body;Body	cg15174926
		cg15177410F		cg15177410
KIAA0427;KIAA0427	NM_001142397;NM_014772	cg15179985R	Body;Body	cg15179985
MGA;MGA	NM_001080541;NM_001164	cg15183258F	3'UTR;3'UTR	cg15183258
C4orf47	NM_001114357	cg15185864R	TSS1500	cg15185864
		cg15186910R		cg15186910
FFAR2	NM_005306	cg15189233R	TSS1500	cg15189233
MARK2;MARK2;MARK2	NM_004954;NM_001039469	cg15189797F	Body;Body;Body;Body	cg15189797
UTS2R	NM_018949	cg15196365R	TSS200	cg15196365
		cg15197458F		cg15197458
		cg15199748R		cg15199748
		cg15203096R		cg15203096
KEAP1;KEAP1	NM_203500;NM_012289	cg15204119F	5'UTR;5'UTR	cg15204119
TNFRSF25;TNFRSF25;TNM	NM_148967;NM_003790;NM_003790	cg15205428R	Body;Body;Body;Body;	cg15205428
		cg15205636R		cg15205636
PPPDE1	NM_016076	cg15208247R	Body	cg15208247
KIF1B;KIF1B	NM_183416;NM_015074	cg15208524F	TSS200;TSS200	cg15208524
		cg15210833F		cg15210833
CNOT6;CNOT6	NM_015455;NM_015455	cg15216925R	5'UTR;1stExon	cg15216925
EXOC3L2	NM_138568	cg15220697F	Body	cg15220697
JUP;JUP	NM_002230;NM_021991	cg15223933R	Body;Body	cg15223933
		cg15224059R		cg15224059
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg15224307R	Body;Body;Body	cg15224307
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg15225364R	Body;Body;Body	cg15225364
GGA3;MRPS7;GGA3	NM_014001;NM_015971;NM_015971	cg15226715R	Body;TSS200;Body	cg15226715
		cg15229052F		cg15229052
		cg15231205R		cg15231205
HOXC4;HOXC4	NM_014620;NM_153633	cg15233062F	5'UTR;TSS1500	cg15233062
C6orf129	NM_138493	cg15233734F	3'UTR	cg15233734

CACNA1G;CACNA1G;CANM_198384;NM_198379;NMg15236035F			Body;Body;Body;Body;Body;Body	cg15236035
SELK	NM_021237	cg15236063R	3'UTR	cg15236063
		cg15236484F		cg15236484
FHIT;FHIT	NM_001166243;NM_002012	cg15238012R	5'UTR;5'UTR	cg15238012
TUBGCP6	NM_020461	cg15238519R	TSS200	cg15238519
C19orf38;C19orf38	NM_001136482;NM_001136	cg15240990F	5'UTR;1stExon	cg15240990
BAK1;BAK1	NM_001188;NM_001188	cg15241786R	1stExon;5'UTR	cg15241786
PURB;PURB	NM_033224;NM_033224	cg15243542F	3'UTR;1stExon	cg15243542
		cg15244778R		cg15244778
DHRS7C	NM_001105571	cg15252429R	Body	cg15252429
BPESC1	NR_026783	cg15257719R	TSS1500	cg15257719
DSG2	NM_001943	cg15259973R	Body	cg15259973
UNC93B1	NM_030930	cg15260365F	TSS200	cg15260365
		cg15261247F		cg15261247
ARID1B;ARID1B;ARID1B	NM_017519;NM_175863;NMg15262325R		Body;Body;Body	cg15262325
LOC100101938	NR_027248	cg15263875F	Body	cg15263875
		cg15263946F		cg15263946
		cg15265102R		cg15265102
SLC22A12;SLC22A12	NM_153378;NM_144585	cg15266969R	3'UTR;3'UTR	cg15266969
		cg15267318R		cg15267318
KNDC1	NM_152643	cg15268727F	TSS200	cg15268727
RUSC2	NM_014806	cg15271616F	5'UTR	cg15271616
WWTR1	NM_001168278	cg15271813R	TSS1500	cg15271813
LOC285830;LOC285830	NR_026972;NR_026973	cg15272186F	Body;Body	cg15272186
		cg15274202F		cg15274202
		cg15277213F		cg15277213
		cg15278262R		cg15278262
ATP11A;ATP11A	NM_015205;NM_032189	cg15278390R	Body;Body	cg15278390
TXLNB	NM_153235	cg15281724R	Body	cg15281724
C18orf45	NM_032933	cg15283212F	Body	cg15283212
		cg15283657R		cg15283657
		cg15284082R		cg15284082
CDK2AP1	NM_004642	cg15284545F	TSS1500	cg15284545
GALNTL4	NM_198516	cg15288874F	Body	cg15288874
PSAT1;PSAT1;PSAT1;PS	NM_058179;NM_021154;NMg15289658F		1stExon;1stExon;5'UTR;	cg15289658
POMZP3;LOC100133091;PNM	_012230;NR_029411;NMcg15290081F		Body;Body;Body	cg15290081
KLHL29	NM_052920	cg15290957R	Body	cg15290957
HS6ST3	NM_153456	cg15292110F	3'UTR	cg15292110
CCDC15	NM_025004	cg15298875R	Body	cg15298875
LOC730811;MYT1L	NR_024468;NM_015025	cg15300436F	TSS1500;5'UTR	cg15300436
THAP5;THAP5;DNAJB9;TNM	_001130475;NM_182529	cg15302530R	5'UTR;TSS200;TSS1500	cg15302530
TMEM30A;TMEM30A	NM_001143958;NM_018247	cg15304125F	Body;Body	cg15304125
GLP1R	NM_002062	cg15309004R	Body	cg15309004
LIN28B	NM_001004317	cg15317722F	Body	cg15317722
NOTCH4	NM_004557	cg15318627F	Body	cg15318627
SLC26A4;LOC286002	NM_000441;NR_028137	cg15320854R	TSS200;Body	cg15320854
		cg15321908R		cg15321908
		cg15322455R		cg15322455
KRT5	NM_000424	cg15322876R	Body	cg15322876
		cg15323121R		cg15323121
CDC42BPG	NM_017525	cg15323937R	Body	cg15323937
TGFBR3	NM_003243	cg15326069R	Body	cg15326069
CAMK2B;CAMK2B;CAM	NM_172081;NM_172082;NMg15326144F		Body;Body;Body;Body;Body	cg15326144
FAM101B	NM_182705	cg15326491F	3'UTR	cg15326491

PLEKHA5;PLEKHA5	NM_019012;N	L_001143821	cg15327998F	3'UTR;3'UTR	cg15327998
SLC45A4	NM_001080431		cg15331837R	Body	cg15331837
C20orf195	NM_024059		cg15332132R	TSS1500	cg15332132
MYO10	NM_012334		cg15333932F	Body	cg15333932
			cg15339052R		cg15339052
SH2D4B;SH2D4B	NM_207372;NM_001145719		cg15339994F	Body;Body	cg15339994
SNORD22;SNORD31;SNHNR_000008;NR_002560;NR			cg15345437F	TSS1500;Body;Body	cg15345437
DIP2C	NM_014974		cg15346619F	Body	cg15346619
KIAA0125	NR_026800		cg15349304F	Body	cg15349304
RBM9;RBM9;RBM9;RBMNM_001082578;NM_001082			cg15352367F	Body;Body;TSS200;TSS	cg15352367
GPR133	NM_198827		cg15353923F	Body	cg15353923
RASGRP2;RASGRP2;RASNM_153819;NM_001098671			cg15355719F	Body;Body;Body	cg15355719
SLC25A13;SLC25A13;SLCNM_014251;NM_001160210			cg15358035F	Body;Body;Body	cg15358035
ZNF775	NM_173680		cg15362480R	5'UTR	cg15362480
SLC25A26	NM_173471		cg15364450F	TSS200	cg15364450
KLF7	NM_003709		cg15369419F	3'UTR	cg15369419
SLC26A11;SLC26A11;SGSNM_001166347;NM_001166			cg15371732F	TSS200;TSS200;5'UTR;	cg15371732
TPO;TPO;TPO;TPO	NM_175719;NM_000547;NM		cg15375772R	Body;Body;Body;Body	cg15375772
OR10A4	NM_207186		cg15375826F	TSS1500	cg15375826
NSUN5C;NSUN5C;NSUN5NM_148936;NM_001039487			cg15378913F	Body;Body;Body	cg15378913
COL4A1	NM_001845		cg15379757R	Body	cg15379757
LYPD1;NCKAP5;NCKAP5NM_001077427;NM_207481			cg15380115F	TSS1500;3'UTR;3'UTR	cg15380115
			cg15380588R		cg15380588
EGFL8	NM_030652		cg15381433R	5'UTR	cg15381433
NDUFV3;NDUFV3	NM_001001503;NM_021075		cg15383847R	3'UTR;3'UTR	cg15383847
			cg15383980F		cg15383980
			cg15385397R		cg15385397
HES7;HES7	NM_001165967;NM_032580		cg15389899R	Body;Body	cg15389899
			cg15392358F		cg15392358
SLC28A2	NM_004212		cg15395560F	TSS1500	cg15395560
			cg15398272F		cg15398272
TRPC4;TRPC4;TRPC4;TRNM_003306;NM_001135957			cg15398976R	TSS1500;TSS1500;TSS	cg15398976
			cg15407058R		cg15407058
APP;APP;APP;APP;APP;ANM_001136130;NM_201414			cg15407086F	1stExon;5'UTR;1stExon;	cg15407086
TUBGCP2	NM_006659		cg15408512F	Body	cg15408512
OR2AT4	NM_001005285		cg15412313F	TSS1500	cg15412313
DGKQ	NM_001347		cg15412971R	Body	cg15412971
ICA1;ICA1;ICA1	NM_004968;NM_001136020		cg15413566R	5'UTR;TSS200;TSS1500	cg15413566
LRTOMT;NUMA1;LRTO	NM_001145308;NM_006185		cg15414828F	5'UTR;1stExon;1stExon;	cg15414828
			cg15414924F		cg15414924
IL18	NM_001562		cg15418499F	5'UTR	cg15418499
KIF21A	NM_017641		cg15418826F	Body	cg15418826
COLQ;COLQ;COLQ	NM_080539;NM_005677;NM		cg15419820R	Body;Body;TSS1500	cg15419820
KCNQ1;KCNQ1OT1;KCNNM_000218;NR_002728;NM			cg15422307R	Body;Body;Body	cg15422307
SULF1;SULF1;SULF1;SULNM_001128204;NM_015170			cg15422439F	Body;Body;Body;Body	cg15422439
FUT2;FUT2	NM_001097638;NM_000511		cg15422734R	Body;Body	cg15422734
			cg15427232F		cg15427232
ZNF117;ZNF117	NM_015852;NM_015852		cg15427793F	1stExon;5'UTR	cg15427793
C19orf60;C19orf60	NM_001100419;NM_001100		cg15428479F	TSS1500;TSS1500	cg15428479
FAM149A;FAM149A;FAMNM_001006655;NM_001006			cg15429502F	5'UTR;1stExon;5'UTR	cg15429502
			cg15429816R		cg15429816
			cg15432532R		cg15432532
NRXN3;NRXN3;NRXN3	NM_004796;NM_001105250		cg15434778R	Body;Body;Body	cg15434778
			cg15436655R		cg15436655

CATSPER2P1	NR_002318	cg15437748R cg15439181R	Body	cg15437748 cg15439181
HNMT;HNMT;HNMT	NM_001024075;NM_006895	cg15441973F cg15442155F cg15442166R	TSS1500;TSS1500;TSS1500	cg15441973 cg15442155 cg15442166
CDGAP	NM_020754	cg15442583R cg15444621R	Body	cg15442583 cg15444621
KRT35	NM_002280	cg15446373F	TSS1500	cg15446373
QRSL1;RTN4IP1	NM_018292;NM_032730	cg15446613R	1stExon;TSS200	cg15446613
RNF39;RNF39	NM_025236;NM_170769	cg15448721R	TSS1500;TSS1500	cg15448721
ITGB1BP3	NM_170678	cg15452319F	Body	cg15452319
HCN4	NM_005477	cg15453204F	Body	cg15453204
MYLK4	NM_001012418	cg15453396F	Body	cg15453396
OR2T1	NM_030904	cg15454534R cg15457934F cg15459953R	1stExon	cg15454534 cg15457934 cg15459953
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg15460454R	Body;Body;Body	cg15460454
RASAL2;RASAL2	NM_004841;NM_170692	cg15462736F	Body;Body	cg15462736
ECE1	NM_001113348	cg15462862F	Body	cg15462862
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg15464485R cg15466753R	Body;Body;Body	cg15464485 cg15466753
FAM184B	NM_015688	cg15471073F	Body	cg15471073
UCK2	NM_012474	cg15473346R	Body	cg15473346
OGFR	NM_007346	cg15473411R cg15474831F	Body	cg15473411 cg15474831
KLF7;KLF7	NM_003709;NM_003709	cg15474859R	1stExon;5'UTR	cg15474859
TEF	NM_001145398	cg15480485F	Body	cg15480485
TMC3	NM_001080532	cg15484651F	1stExon	cg15484651
KLHDC8A	NM_018203	cg15486127R	Body	cg15486127
NALCN	NM_052867	cg15488636R	Body	cg15488636
PPP1R13B	NM_015316	cg15489228R cg15490640F	Body	cg15489228 cg15490640
ACOT11;ACOT11	NM_015547;NM_147161	cg15490897F	Body;Body	cg15490897
SEC23A	NM_006364	cg15491047R	TSS1500	cg15491047
SLC25A24;SLC25A24	NM_213651;NM_013386	cg15493018F	Body;Body	cg15493018
KLF2	NM_016270	cg15496085R cg15498451F	TSS1500	cg15496085 cg15498451
TRIM77	NM_001146162	cg15498563R	1stExon	cg15498563
CCDC54	NM_032600	cg15507901F	1stExon	cg15507901
ZAR1L	NM_001136571	cg15516583R cg15532522R cg15533227R cg15533646F	TSS1500	cg15516583 cg15532522 cg15533227 cg15533646
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg15536489F	Body;Body;Body	cg15536489
ZSCAN5A	NM_024303	cg15537455F	TSS200	cg15537455
GTPBP4	NM_012341	cg15537487F cg15538009F	Body	cg15537487 cg15538009
OBP2B	NM_014581	cg15538820F	TSS200	cg15538820
SVIL	NM_003174	cg15541890R cg15541987R	5'UTR	cg15541890 cg15541987
PHACTR1	NM_030948	cg15542608R	Body	cg15542608
PPP1R9A;PPP1R9A	NM_017650;NM_001166160	cg15544721R	TSS1500;TSS1500	cg15544721
ZNF331;ZNF331	NM_001079906;NM_018555	cg15545827F cg15550260R	5'UTR;5'UTR	cg15545827 cg15550260

TSPAN12	NM_012338	cg15550972F	3'UTR	cg15550972
		cg15552491R		cg15552491
USP53	NM_019050	cg15553710R	Body	cg15553710
		cg15560495R		cg15560495
APBB2;APBB2;APBB2	NM_004307;NM_173075;NM_004307	cg15563027F	5'UTR;5'UTR;5'UTR	cg15563027
		cg15569292F		cg15569292
MALAT1	NR_002819	cg15574972F	TSS200	cg15574972
LOC388789	NR_015432	cg15576692R	TSS200	cg15576692
		cg15584088F		cg15584088
PPAN-P2RY11;P2RY11;PNM_001040664;NM_002566		cg15587947R	Body;TSS1500;Body	cg15587947
		cg15590056R		cg15590056
FAM185A;FAM185A;FAMNR_026879;NM_001145268;		cg15590863R	Body;3'UTR;3'UTR	cg15590863
RNF220	NM_018150	cg15590950R	5'UTR	cg15590950
		cg15595333R		cg15595333
ZNF253	NM_021047	cg15595599R	TSS200	cg15595599
		cg15598609R		cg15598609
LOC399959;BLID	NR_024430; M_001001786	cg15598802F	Body;TSS1500	cg15598802
		cg15601371F		cg15601371
SNHG12;SNORD99;SNORN_024127;NR_003077;NR_003077		cg15601452F	Body;TSS1500;Body	cg15601452
SLC12A7	NM_006598	cg15601915F	Body	cg15601915
FSTL4	NM_015082	cg15602329R	5'UTR	cg15602329
TOLLIP	NM_019009	cg15607277F	Body	cg15607277
TBC1D2B;TBC1D2B	NM_144572;NM_015079	cg15608151R	Body;Body	cg15608151
CALHM3	NM_001129742	cg15610777R	1stExon	cg15610777
CREG1	NM_003851	cg15612186F	TSS200	cg15612186
		cg15613100F		cg15613100
		cg15614155R		cg15614155
		cg15614268R		cg15614268
LOC100134713;NDUFB2	NR_024454;NM_004546	cg15616888R	TSS200;Body	cg15616888
GORASP2;GORASP2	NM_015530;NM_015530	cg15617548R	5'UTR;1stExon	cg15617548
ITPR2	NM_002223	cg15620385R	TSS200	cg15620385
NRD1;NRD1	NM_002525;NM_001101662	cg15627300F	Body;Body	cg15627300
		cg15631343R		cg15631343
		cg15633618F		cg15633618
MGST2	NM_002413	cg15636504R	TSS1500	cg15636504
LOC644936	NR_004845	cg15639469F	Body	cg15639469
		cg15639659R		cg15639659
TNXB	NM_019105	cg15642307R	Body	cg15642307
PRDM16;PRDM16	NM_022114;NM_199454	cg15644970R	Body;Body	cg15644970
NAALAD2	NM_005467	cg15645254F	Body	cg15645254
		cg15646967R		cg15646967
SLC12A7	NM_006598	cg15647725F	Body	cg15647725
EFHD2	NM_024329	cg15650240R	1stExon	cg15650240
CSN3;CSN3	NM_005212;NM_005212	cg15651758F	1stExon;5'UTR	cg15651758
		cg15652116F		cg15652116
CCDC150	NM_001080539	cg15654594F	Body	cg15654594
		cg15656347R		cg15656347
		cg15656470R		cg15656470
		cg15657154F		cg15657154
TMEM168	NM_022484	cg15661251F	5'UTR	cg15661251
		cg15663074F		cg15663074
PCSK6;PCSK6;PCSK6;PCSK6	NM_002570;NM_138320;NM_002570	cg15663656F	Body;Body;Body;Body;	cg15663656
		cg15672653F		cg15672653
AVPR1B	NM_000707	cg15677434R	Body	cg15677434

BAI2	NM_001703	cg15677989R	Body	cg15677989
MYO3A	NM_017433	cg15678844R	Body	cg15678844
GRHL2	NM_024915	cg15679829R	Body	cg15679829
DIDO1;DIDO1;DIDO1	NM_022105;NM_080797;NM_080797	cg15680020R	5'UTR;5'UTR;5'UTR	cg15680020
CUEDC2	NM_024040	cg15681023R	5'UTR	cg15681023
ADAP1	NM_006869	cg15685424R	Body	cg15685424
BAT2	NM_080686	cg15685889R	Body	cg15685889
		cg15690180R		cg15690180
POLS	NM_006999	cg15690760R	5'UTR	cg15690760
HCG18;HCG18	NR_024052;NR_024053	cg15695731F	Body;Body	cg15695731
ARHGEF10	NM_014629	cg15697793R	Body	cg15697793
VTRNA1-2	NR_026704	cg15697852R	Body	cg15697852
OR10J1	NM_012351	cg15700197F	TSS1500	cg15700197
NEURL3	NR_026875	cg15703357F	Body	cg15703357
		cg15703773R		cg15703773
		cg15715337R		cg15715337
UPK1B	NM_006952	cg15717250F	5'UTR	cg15717250
DUSP4;DUSP4	NM_057158;NM_001394	cg15717598R	Body;Body	cg15717598
TNXB	NM_019105	cg15717844R	Body	cg15717844
OR5I1	NM_006637	cg15717907F	TSS1500	cg15717907
GBP2	NM_004120	cg15718932R	TSS1500	cg15718932
MAPK8IP1	NM_005456	cg15719126R	TSS200	cg15719126
PRPF3	NM_004698	cg15720675F	TSS1500	cg15720675
GOLGA3	NM_005895	cg15721142F	Body	cg15721142
CATSPER2;CATSPER2;CATSPER2	NM_054020;NM_172095;NM_172095	cg15721439F	Body;Body;3'UTR	cg15721439
SOX2OT	NR_004053	cg15721584F	TSS1500	cg15721584
RIPK2	NM_003821	cg15723028R	Body	cg15723028
ANGPT1	NM_001146	cg15724328R	Body	cg15724328
		cg15724941F		cg15724941
TSPAN9;TSPAN9	NM_001168320;NM_006675	cg15724985R	5'UTR;5'UTR	cg15724985
		cg15725989R		cg15725989
TULP4;TULP4	NM_020245;NM_001007466	cg15727009R	Body;Body	cg15727009
APOA4	NM_000482	cg15727249F	Body	cg15727249
FASN	NM_004104	cg15729979F	Body	cg15729979
ZNF321	NM_203307	cg15730668R	TSS200	cg15730668
ATP2B4;ATP2B4	NM_001001396;NM_001684	cg15732851F	5'UTR;5'UTR	cg15732851
MAP7D2;MAP7D2;MAP7D2	NM_001168465;NM_001168	cg15735483F	TSS1500;TSS1500;TSS1500	cg15735483
ASPSCR1	NM_024083	cg15735664R	TSS1500	cg15735664
APCDD1	NM_153000	cg15737386R	Body	cg15737386
TAS1R2	NM_152232	cg15743657R	TSS1500	cg15743657
CCDC121;GPN1;GPN1;CCNM_001142682;NM_001145		cg15744128F	Body;TSS1500;TSS1500	cg15744128
		cg15745817F		cg15745817
CREB1;CREB1	NM_004379;NM_134442	cg15749141F	Body;Body	cg15749141
SGCA;SGCA;SGCA;SGCANM_000023;NM_001135697		cg15756653F	5'UTR;5'UTR;1stExon;1	cg15756653
LOC150185	NR_024381	cg15757507F	Body	cg15757507
		cg15763899F		cg15763899
MAGI1;MAGI1;MAGI1	NM_004742;NM_015520;NM_015520	cg15764058R	TSS200;TSS200;TSS200	cg15764058
OR10G8	NM_001004464	cg15767191R	TSS1500	cg15767191
TSSC1	NM_003310	cg15775218R	Body	cg15775218
AMPH;AMPH	NM_139316;NM_001635	cg15777769R	3'UTR;3'UTR	cg15777769
POLDIP3;POLDIP3;RNU1	NM_032311;NM_178136;NR_001145	cg15778335R	TSS200;TSS200;TSS1500	cg15778335
CHCHD1	NM_203298	cg15781794F	1stExon	cg15781794
		cg15782267R		cg15782267
		cg15783768F		cg15783768

LRRRC37A3	NM_199340	cg15784521R	Body	cg15784521
NCLN	NM_020170	cg15784997F	Body	cg15784997
TNXB	NM_019105	cg15786918F	Body	cg15786918
		cg15787227R		cg15787227
OXSRI	NM_005109	cg15789250R	Body	cg15789250
C4orf34	NM_174921	cg15790941F	TSS200	cg15790941
NUAK1	NM_014840	cg15791180R	Body	cg15791180
RASAL1	NM_004658	cg15792158R	TSS200	cg15792158
ZNF718	NM_001039127	cg15792688F	Body	cg15792688
SIPA1L3	NM_015073	cg15793417R	Body	cg15793417
CHID1;CHID1;CHID1;CHINM_023947;NM_001142677		cg15793563R	TSS200;TSS200;TSS200	cg15793563
		cg15795515R		cg15795515
SLC23A3;SLC23A3;SLC2	NM_001144890;NM_001144	cg15797218R	5'UTR;1stExon;1stExon;	cg15797218
DOCK6	NM_020812	cg15800776F	Body	cg15800776
ZNF511	NM_145806	cg15803506F	Body	cg15803506
		cg15808063R		cg15808063
		cg15812177F		cg15812177
GMEB2	NM_012384	cg15813550R	Body	cg15813550
WDR72	NM_182758	cg15814750F	Body	cg15814750
C11orf34	NM_001145024	cg15818008R	Body	cg15818008
		cg15822157F		cg15822157
ANKRD42	NM_182603	cg15825725R	TSS200	cg15825725
EPHX3;EPHX3	NM_001142886;NM_024794	cg15826897R	5'UTR;TSS200	cg15826897
RNASEN;RNASEN	NM_013235;NM_001100412	cg15827285R	Body;Body	cg15827285
NRBF2;NRBF2	NM_030759;NM_030759	cg15830792F	1stExon;5'UTR	cg15830792
WAPAL	NM_015045	cg15831820R	Body	cg15831820
GPR39;LYPD1;LYPD1	NM_001508;NM_144586;NM_001145024	cg15833099F	Body;3'UTR;3'UTR	cg15833099
		cg15835542F		cg15835542
FAM169A	NM_015566	cg15835713F	5'UTR	cg15835713
		cg15835988R		cg15835988
MORN1	NM_024848	cg15836199F	Body	cg15836199
		cg15836505R		cg15836505
TBR1	NM_006593	cg15837233R	Body	cg15837233
ABR;ABR	NM_021962;NM_001159746	cg15842208R	Body;5'UTR	cg15842208
		cg15843977R		cg15843977
SESN3	NM_144665	cg15846643F	TSS200	cg15846643
USP11	NM_004651	cg15850513R	TSS1500	cg15850513
		cg15850918F		cg15850918
SIN3A;SIN3A	NM_001145357;NM_001145	cg15851274F	5'UTR;1stExon	cg15851274
PEBP4	NM_144962	cg15854394R	Body	cg15854394
		cg15856195F		cg15856195
MICALL2	NM_182924	cg15857635F	Body	cg15857635
		cg15857832F		cg15857832
RAB7A	NM_004637	cg15859320R	5'UTR	cg15859320
		cg15859864F		cg15859864
		cg15864317F		cg15864317
EYA4;EYA4;EYA4	NM_172105;NM_172103;NM_001145024	cg15865026R	Body;Body;Body	cg15865026
BRSK2	NM_003957	cg15868367F	Body	cg15868367
C18orf34;C18orf34	NM_198995;NM_001105528	cg15870739F	Body;Body	cg15870739
C14orf28	NM_001017923	cg15874048R	Body	cg15874048
		cg15874144F		cg15874144
AMZ1	NM_133463	cg15882394R	5'UTR	cg15882394
RPL13AP20	NR_003932	cg15883249F	Body	cg15883249
HSPA1L	NM_005527	cg15888291F	Body	cg15888291



NEO1	NM_002499	cg15888301R cg15891076R	TSS1500	cg15888301 cg15891076
MTA1	NM_004689	cg15895505R	Body	cg15895505
ENTPD4;ENTPD4 P2RY6;P2RY6	NM_004901;NM_001128930 NM_176796;NM_176797	cg15896259F cg15903837F cg15905200R cg15908853F	5'UTR;5'UTR TSS1500;TSS1500	cg15896259 cg15903837 cg15905200 cg15908853
RBM26	NM_022118	cg15910685F	TSS200	cg15910685
SLC17A4	NM_005495	cg15916061F	TSS1500	cg15916061
LOC153328	NM_145282	cg15918259R	Body	cg15918259
ESPL1	NM_012291	cg15918766F cg15919929F	5'UTR	cg15918766 cg15919929
CUX2	NM_015267	cg15920906F cg15921911R	Body	cg15920906 cg15921911
TRAF3IP2;TRAF3IP2;TRANM_001164281;NM_001164	NM_001164281;NM_001164	cg15931839F	3'UTR;3'UTR;Body;3'UTR	cg15931839
GABPB2	NM_144618	cg15932464F	5'UTR	cg15932464
FAM60A;FAM60A;FLJ132NM_021238;NM_001135811	NM_021238;NM_001135811	cg15935736F cg15936731R	5'UTR;5'UTR;TSS1500;	cg15935736 cg15936731
PACS2;PACS2	NM_015197;NM_001100913	cg15936935R	Body;Body	cg15936935
LPAR3	NM_012152	cg15937525R	Body	cg15937525
ACTA2	NM_001141945	cg15940800R cg15944727F	5'UTR	cg15940800 cg15944727
SLC25A13;SLC25A13;SLCNM_014251;NM_001160210	NM_014251;NM_001160210	cg15946262F	Body;Body;Body	cg15946262
RALBP1	NM_006788	cg15947599R	5'UTR	cg15947599
POU5F1	NM_002701	cg15948871R cg15949553F	TSS1500	cg15948871 cg15949553
BAX;BAX;BAX;BAX;BAXNM_138763;NM_138764;NM	NM_138763;NM_138764;NM	cg15951107F cg15953616F cg15957461F	Body;Body;Body;Body;B	cg15951107 cg15953616 cg15957461
TFPI;TFPI	NM_006287;NM_001032281	cg15957797F	5'UTR;5'UTR	cg15957797
PDGFC	NM_016205	cg15957807R	3'UTR	cg15957807
ITGB4;ITGB4;ITGB4	NM_001005731;NM_001005	cg15958938R	Body;Body;Body	cg15958938
NACAP1	NR_002182	cg15959262R	TSS200	cg15959262
GOLPH3	NM_022130	cg15959319R cg15962375F	TSS200	cg15959319 cg15962375
HDAC4	NM_006037	cg15964153R	3'UTR	cg15964153
ENSA;ENSA;ENSA;ENSANM_004436;NM_207043;NM	NM_004436;NM_207043;NM	cg15965583R	1stExon;1stExon;1stExon	cg15965583
ST8SIA5	NM_013305	cg15966229F	TSS1500	cg15966229
IL7	NM_000880	cg15966610F cg15966701F cg15967326R cg15975985R	TSS1500	cg15966610 cg15966701 cg15967326 cg15975985
CYP26C1	NM_183374	cg15980076R cg15980914R	Body	cg15980076 cg15980914
NOD1	NM_006092	cg15982261F	Body	cg15982261
C21orf91;C21orf91;C21orf91NM_017447;NM_001100420	NM_017447;NM_001100420	cg15982906R	5'UTR;5'UTR;5'UTR	cg15982906
FILIP1	NM_015687	cg15983952F	Body	cg15983952
PMS2;PMS2;AIMP2	NM_000535;NR_003085;NM	cg15985338R	TSS200;TSS200;TSS200	cg15985338
SEC1;NTN5	NR_004401;NM_145807	cg15985418R cg15988287F	Body;Body	cg15985418 cg15988287
PPP1CC	NM_002710	cg15988887R	TSS1500	cg15988887
GJA3	NM_021954	cg15989981R	TSS1500	cg15989981
IL20RA	NM_014432	cg15992935F	TSS200	cg15992935
PRDX2;PRDX2;PRDX2;P	NM_005809;NM_181738;NM	cg15993354R	5'UTR;5'UTR;1stExon;1	cg15993354

EHF	NM_012153	cg15994604F	Body	cg15994604
GFRA2;GFRA2;GFRA2	NM_001165038;NM_001165	cg15997512R	Body;Body;Body	cg15997512
PRDM16;PRDM16	NM_022114;NM_199454	cg16002887R	Body;Body	cg16002887
CREM;CREM;CREM;CREM	NM_183013;NM_182850;NM_	cg16003829R	5'UTR;5'UTR;5'UTR;TS	cg16003829
FNIP2	NM_020840	cg16004202F	TSS1500	cg16004202
		cg16008158R		cg16008158
CLEC4E	NM_014358	cg16009120F	3'UTR	cg16009120
BOD1;BOD1;BOD1;BOD1	NM_138369;NM_138369;NM_	cg16009381R	5'UTR;1stExon;5'UTR;1st	cg16009381
TRRAP	NM_003496	cg16012478R	Body	cg16012478
ATAD3B	NM_031921	cg16013630R	TSS1500	cg16013630
TAGLN2	NM_003564	cg16015499F	Body	cg16015499
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_	cg16016583F	Body;Body;Body	cg16016583
RABGAP1L	NM_014857	cg16016766F	Body	cg16016766
		cg16018995F		cg16018995
FIG4	NM_014845	cg16019558R	Body	cg16019558
AHDC1	NM_001029882	cg16020249F	TSS1500	cg16020249
LOC389791;PTGES2;PTG	NR_024425;NM_025072;NR	cg16020551F	TSS200;TSS200;Body;B	cg16020551
PRKAA2	NM_006252	cg16021159F	Body	cg16021159
C5orf46	NM_206966	cg16023600R	3'UTR	cg16023600
CARD10	NM_014550	cg16026346F	TSS1500	cg16026346
TRIM60	NM_152620	cg16026862R	TSS1500	cg16026862
RETNLB	NM_032579	cg16027147R	Body	cg16027147
RPTOR;RPTOR	NM_001163034;NM_020761	cg16027727R	Body;Body	cg16027727
WDR27	NM_182552	cg16027847F	Body	cg16027847
		cg16030261F		cg16030261
		cg16034268R		cg16034268
MFSD4	NM_181644	cg16035777R	Body	cg16035777
FOXG1	NM_005249	cg16038120F	TSS1500	cg16038120
PRRT1	NM_030651	cg16040614F	Body	cg16040614
TTLL10;TTLL10	NM_153254;NM_001130045	cg16043700R	TSS1500;5'UTR	cg16043700
TIMD4;TIMD4	NM_001146726;NM_138379	cg16045340R	Body;Body	cg16045340
MYO1D	NM_015194	cg16047348F	TSS1500	cg16047348
STEAP3;STEAP3;STEAP3	NM_018234;NM_182915;NM_	cg16063474F	Body;Body;Body	cg16063474
CNDP1	NM_032649	cg16064925R	TSS1500	cg16064925
ERBB2;ERBB2	NM_001005862;NM_004448	cg16065186F	5'UTR;Body	cg16065186
TMEM132E	NM_207313	cg16065538F	Body	cg16065538
FAM193B;FAM193B	NM_019057;NR_024019	cg16067210F	Body;Body	cg16067210
		cg16067453F		cg16067453
		cg16075266F		cg16075266
CBLN3;KHNYN	NM_001039771;NM_015299	cg16075951R	TSS1500;TSS200	cg16075951
FOXD2	NM_004474	cg16076997R	1stExon	cg16076997
AP4S1;AP4S1	NM_007077;NM_001128126	cg16078554F	5'UTR;5'UTR	cg16078554
		cg16078938F		cg16078938
STK25	NM_006374	cg16079865F	Body	cg16079865
FKBP10	NM_021939	cg16080427R	Body	cg16080427
SON;SON	NM_032195;NM_138927	cg16081992R	3'UTR;Body	cg16081992
ARHGEF3	NM_001128615	cg16087328F	Body	cg16087328
INTS1	NM_001080453	cg16089031F	Body	cg16089031
		cg16090254F		cg16090254
MSRB2	NM_012228	cg16091741F	Body	cg16091741
TAPBP;TAPBP;RGL2;RGL	NM_172209;NM_003190;NM_	cg16095772R	3'UTR;3'UTR;TSS1500;T	cg16095772
AGAP1;AGAP1	NM_014914;NM_001037131	cg16096063R	Body;Body	cg16096063
ARHGEF16	NM_014448	cg16097329F	Body	cg16097329
CLK1;CLK1;CLK1;CLK1	NM_004071;NR_027856;NM_	cg16098332F	TSS1500;TSS1500;TSS1	cg16098332

STRADB	NM_018571	cg16098957R		cg16098957
PEX14	NM_004565	cg16099404R	Body	cg16099404
RPS6KA2	NM_001006932	cg16100063R	Body	cg16100063
TMEM123	NM_052932	cg16100486R	Body	cg16100486
CLRN3	NM_152311	cg16100721R	Body	cg16100721
		cg16101077F	3'UTR	cg16101077
		cg16101213R		cg16101213
LY86	NM_004271	cg16101278F	Body	cg16101278
MARCH4	NM_020814	cg16101601R	Body	cg16101601
PPP3CC	NM_005605	cg16102063R	TSS1500	cg16102063
		cg16102240F		cg16102240
		cg16104371F		cg16104371
TTLL2;TTLL2	NM_031949;NM_031949	cg16105873F	1stExon;5'UTR	cg16105873
LIMA1;LIMA1;LIMA1	NM_001113546;NM_016357	cg16114380F	Body;Body;Body	cg16114380
AGAP1;AGAP1	NM_014914;NM_001037131	cg16114962F	Body;Body	cg16114962
FAIM2;FAIM2	NM_012306;NM_012306	cg16115588R	1stExon;5'UTR	cg16115588
SETD1B	NM_015048	cg16116313R	Body	cg16116313
ARRDC5	NM_001080523	cg16117653R	Body	cg16117653
FEM1A	NM_018708	cg16118817R	1stExon	cg16118817
		cg16122779F		cg16122779
TTLL12	NM_015140	cg16123583F	Body	cg16123583
TRIM56	NM_030961	cg16131903F	Body	cg16131903
LRP5	NM_002335	cg16133943R	Body	cg16133943
PKNOX2	NM_022062	cg16135180R	TSS1500	cg16135180
CKAP5;CKAP5	NM_014756;NM_001008938	cg16136385R	5'UTR;5'UTR	cg16136385
CAST;CAST;CAST;CAST	NM_001042441;NM_001042	cg16136840F	TSS200;TSS200;TSS200	cg16136840
		cg16137250R		cg16137250
HIST1H4L;HIST1H3I	NM_003546;NM_003533	cg16138458R	1stExon;TSS1500	cg16138458
AARSD1;AARSD1	NM_025267;NM_001136042	cg16143763R	Body;Body	cg16143763
		cg16144206F		cg16144206
RAP1A;RAP1A	NM_001010935;NM_002884	cg16146956R	3'UTR;3'UTR	cg16146956
		cg16149247F		cg16149247
		cg16149628R		cg16149628
		cg16149827F		cg16149827
SPAG1;SPAG1	NM_172218;NM_003114	cg16150678R	5'UTR;TSS1500	cg16150678
KCP;KCP	NM_001135914;NM_199349	cg16155175F	TSS200;TSS200	cg16155175
		cg16161359R		cg16161359
PRSS35;PRSS35	NM_153362;NM_001170423	cg16162611F	5'UTR;5'UTR	cg16162611
SLC6A1	NM_003042	cg16164276R	TSS200	cg16164276
CLDN18;CLDN18	NM_016369;NM_001002026	cg16167624F	TSS200;Body	cg16167624
TSHZ1	NM_005786	cg16167782R	5'UTR	cg16167782
APOA1BP	NM_144772	cg16168311R	Body	cg16168311
PIK3AP1	NM_152309	cg16170157F	TSS1500	cg16170157
		cg16171213F		cg16171213
SKI	NM_003036	cg16175479F	Body	cg16175479
C7orf50;MIR339;C7orf50;	NM_001134395;NR_029898;	cg16176069R	Body;TSS200;Body;Bod	cg16176069
		cg16177732R		cg16177732
SPATS2L;SPATS2L;SPATNM	015535;NM_001100424	cg16179720R	5'UTR;5'UTR;5'UTR;5'Uc	cg16179720
ALOX12P2	NR_002710	cg16181638F	TSS1500	cg16181638
		cg16185750F		cg16185750
WDR27	NM_182552	cg16190127R	Body	cg16190127
SLC2A13	NM_052885	cg16190510R	Body	cg16190510
PKN1;PKN1	NM_213560;NM_002741	cg16192293R	TSS1500;Body	cg16192293
RTKN2	NM_145307	cg16196077R	TSS200	cg16196077

		cg16196559R		cg16196559
		cg16197202F		cg16197202
VPS24;VPS24	NM_001005753;NM_016079	cg16198417R	5'UTR;Body	cg16198417
		cg16206504R		cg16206504
SLMO1;SLMO1	NM_006553;NM_001142405	cg16207974R	3'UTR;3'UTR	cg16207974
OTOF;OTOF;OTOF;OTOF	NM_194248;NM_194322;NM_194322	cg16210375F	3'UTR;3'UTR;3'UTR;Bo	cg16210375
BCYRN1	NR_001568	cg16211077R	Body	cg16211077
		cg16213567R		cg16213567
DEM1	NM_022774	cg16215249F	5'UTR	cg16215249
RPS29;RPS29	NM_001030001;NM_001032	cg16219535R	TSS1500;TSS1500	cg16219535
OAZ2	NM_002537	cg16222850R	Body	cg16222850
TMED2	NM_006815	cg16224018R	1stExon	cg16224018
RPS12;SNORD101	NM_001016;NR_002434	cg16226300F	Body;TSS1500	cg16226300
OR2T34	NM_001001821	cg16233450F	TSS200	cg16233450
CXCR5	NM_001716	cg16235962F	TSS200	cg16235962
KRTAP13-1	NM_181599	cg16241541F	TSS1500	cg16241541
TRMT61A	NM_152307	cg16241861F	TSS1500	cg16241861
		cg16247733F		cg16247733
FGF8;FGF8;FGF8;FGF8	NM_033165;NM_006119;NM_006119	cg16248277R	TSS1500;TSS1500;TSS1500	cg16248277
PRDX3;PRDX3	NM_006793;NM_014098	cg16249105R	Body;Body	cg16249105
		cg16249355R		cg16249355
		cg16250402F		cg16250402
SPOCK3;SPOCK3	NM_001040159;NM_016950	cg16251342F	Body;Body	cg16251342
ANKLE2	NM_015114	cg16252584R	Body	cg16252584
		cg16255462F		cg16255462
C5orf25	NM_198567	cg16256592F	TSS1500	cg16256592
MYO7B	NM_001080527	cg16258545F	Body	cg16258545
SDK1;SDK1	NR_027816;NM_152744	cg16259714R	Body;Body	cg16259714
TRPC3;TRPC3	NM_003305;NM_001130698	cg16263025F	Body;Body	cg16263025
ANKRD33B	NM_001164440	cg16264214R	Body	cg16264214
RBM20	NM_001134363	cg16265932R	Body	cg16265932
LOC284276	NR_015417	cg16270399F	Body	cg16270399
		cg16270493R		cg16270493
HIP1	NM_005338	cg16272084F	Body	cg16272084
ASCL4	NM_203436	cg16273009F	TSS200	cg16273009
		cg16279576R		cg16279576
PABPN1	NM_004643	cg16280098R	1stExon	cg16280098
		cg16280946R		cg16280946
C19orf29;C19orf29	NM_001080543;NM_021231	cg16283179F	Body;Body	cg16283179
		cg16283208F		cg16283208
		cg16287042R		cg16287042
ATP6V0A4;ATP6V0A4;ATNM_130840;NM_020632;NM_020632		cg16287679F	Body;Body;Body	cg16287679
		cg16288354R		cg16288354
ZNF219	NM_001102454	cg16288378F	TSS1500	cg16288378
FRG1	NM_004477	cg16294016R	Body	cg16294016
		cg16294559F		cg16294559
		cg16297530F		cg16297530
HPSE2;HPSE2;HPSE2;HPSE2	NM_001166244;NM_001166	cg16298041F	Body;Body;Body;Body	cg16298041
		cg16298149F		cg16298149
		cg16299063R		cg16299063
TMEM167A	NM_174909	cg16299636R	Body	cg16299636
KCNIP1	NM_001034838	cg16300021F	Body	cg16300021
RASGEF1A	NM_145313	cg16305345R	5'UTR	cg16305345
KNDC1	NM_152643	cg16309350F	Body	cg16309350

SRD5A1P1	NR_028597	cg16309606F	Body	cg16309606
KRIT1;ANKIB1;KRIT1;KRN	NM_194455;NM_019004;NM_019004	cg16311192R	TSS200;TSS200;TSS150	cg16311192
		cg16311740F		cg16311740
		cg16311808F		cg16311808
AKIRIN1;AKIRIN1	NM_001136275;NM_024595	cg16314441R	3'UTR;3'UTR	cg16314441
		cg16315980F		cg16315980
KLC1;KLC1;KLC1	NM_182923;NM_001130107	cg16317947F	Body;Body;3'UTR	cg16317947
NTN4	NM_021229	cg16318311R	Body	cg16318311
PBXIP1	NM_020524	cg16318349R	3'UTR	cg16318349
GALNT9	NM_001122636	cg16319947F	Body	cg16319947
		cg16320165F		cg16320165
		cg16320398F		cg16320398
WWC2	NM_024949	cg16321461R	Body	cg16321461
ZNF324B	NM_207395	cg16325191R	Body	cg16325191
		cg16325628R		cg16325628
FBXL18	NM_024963	cg16326998R	Body	cg16326998
KIAA0895;KIAA0895	NM_015314;NM_001100425	cg16328023R	Body;Body	cg16328023
DNAH17	NM_173628	cg16328582R	Body	cg16328582
DOPEY1	NM_015018	cg16328610R	TSS200	cg16328610
SOX11;SOX11	NM_003108;NM_003108	cg16330247F	3'UTR;1stExon	cg16330247
		cg16332003F		cg16332003
RAMP3	NM_005856	cg16336120F	TSS200	cg16336120
TLL5	NM_015072	cg16336436R	Body	cg16336436
SLC45A4	NM_001080431	cg16341495R	Body	cg16341495
KLHL14	NM_020805	cg16342115F	TSS200	cg16342115
SLC22A17;SLC22A17	NM_020372;NM_016609	cg16342550R	Body;Body	cg16342550
TMCC3	NM_020698	cg16344442F	Body	cg16344442
DCAF17;DCAF17;DCAF1	NR_028482;NM_001164821	cg16350446F	Body;3'UTR;3'UTR	cg16350446
SDHA	NM_004168	cg16351010F	Body	cg16351010
PDE3B	NM_000922	cg16356630R	Body	cg16356630
		cg16356743F		cg16356743
		cg16357434F		cg16357434
SMURF2	NM_022739	cg16357768F	TSS1500	cg16357768
CDK20;CDK20;CDK20;CDN	NM_001039803;NM_012119	cg16357921F	1stExon;1stExon;1stExo	cg16357921
NPY1R	NM_000909	cg16358044R	3'UTR	cg16358044
GML	NM_002066	cg16359091F	TSS200	cg16359091
		cg16359517F		cg16359517
CC2D2A	NM_001080522	cg16359663R	Body	cg16359663
PPP1R13B	NM_015316	cg16360182F	TSS1500	cg16360182
ALDOA;ALDOA;ALDOA	NM_184043;NM_001127617	cg16362480F	5'UTR;5'UTR;5'UTR;1st	cg16362480
		cg16363213F		cg16363213
WDR82;MIRLET7G	NM_025222;NR_029660	cg16364629R	Body;TSS1500	cg16364629
LMF1	NM_022773	cg16364805R	Body	cg16364805
SMAD2;SMAD2;SMAD2	NM_001003652;NM_005901	cg16366656R	TSS200;TSS1500;TSS200	cg16366656
FOXK2	NM_004514	cg16366685F	Body	cg16366685
RGS12;RGS12	NM_198229;NM_002926	cg16366890F	Body;Body	cg16366890
DISC1;DISC1;DISC1;DISC	NM_001012959;NM_018662	cg16366945R	Body;Body;Body;Body;B	cg16366945
		cg16366945R		cg16366945
TMPRSS2;TMPRSS2	NM_001135099;NM_005656	cg16371860F	TSS1500;TSS1500	cg16371860
RPH3AL	NM_006987	cg16373144R	Body	cg16373144
NMNAT2;NMNAT2	NM_015039;NM_170706	cg16373880R	Body;TSS1500	cg16373880
SLC35A3;SLC35A3	NM_012243;NM_012243	cg16383001R	5'UTR;1stExon	cg16383001
RBAK;RBAK	NM_021163;NM_021163	cg16384170R	1stExon;5'UTR	cg16384170
RORA;RORA;RORA;ROR	NM_002943;NM_134261;NM_002943	cg16384496R	Body;Body;Body;Body	cg16384496
		cg16385533R		cg16385533

PTPN14	NM_005401	cg16388983R cg16391242R cg16394952F	5'UTR	cg16388983 cg16391242 cg16394952
MIR1976;RPS6KA1;RPS6K1	NR_031740;NM_001006665;	cg16395432F cg16395679F	TSS1500;Body;Body	cg16395432 cg16395679
WDR19	NM_025132	cg16401578F	Body	cg16401578
HS2ST1;HS2ST1	NM_001134492;NM_012262	cg16401890R	Body;Body	cg16401890
PARD3B;PARD3B;PARD3B	NM_152526;NM_057177;NM_057177;	cg16404105F	Body;Body;Body	cg16404105
SFRS6	NM_006275	cg16406226F	TSS200	cg16406226
TLN2	NM_015059	cg16408537R	Body	cg16408537
IQUB;IQUB	NM_178827;NM_178827	cg16411895F	5'UTR;1stExon	cg16411895
LRP5	NM_002335	cg16414472F cg16414659R	Body	cg16414472 cg16414659
NAT8L	NM_178557	cg16417840F cg16418793F	3'UTR	cg16417840 cg16418793
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842;	cg16419421R	Body;Body;Body	cg16419421
HPCAL1;HPCAL1	NM_134421;NM_002149	cg16420247R cg16423186F	TSS1500;TSS200	cg16420247 cg16423186
CRISP3	NM_006061	cg16424311F	Body	cg16424311
TMPRSS11E	NM_014058	cg16427899R cg16436711F	Body	cg16427899 cg16436711
FKBPL	NM_022110	cg16437896F cg16438066F cg16438841R cg16439118R cg16439298R	TSS1500	cg16437896 cg16438066 cg16438841 cg16439118 cg16439298
LOC283663	NR_024433	cg16439512F	Body	cg16439512
NRXN3	NM_004796	cg16443633F	Body	cg16443633
MFI2;MFI2	NM_033316;NM_005929	cg16446585F	Body;Body	cg16446585
ZNF594	NM_032530	cg16447486F cg16448351F cg16450590F	TSS200	cg16447486 cg16448351 cg16450590
ANO2	NM_020373	cg16451358R	TSS1500	cg16451358
CNOT6	NM_015455	cg16452701F cg16453901R	Body	cg16452701 cg16453901
MPRIP;MPRIP	NM_015134;NM_201274	cg16455894F	Body;Body	cg16455894
DDX41	NM_016222	cg16457196F cg16457916F	TSS1500	cg16457196 cg16457916
HMG20B	NM_006339	cg16458196F	Body	cg16458196
AVL9;LSM5;LSM5	NM_015060;NM_001139499	cg16459491F	Body;TSS1500;TSS1500	cg16459491
SYT15;SYT15;SYT15;SYT15	NM_031912;NM_181519;NM_181519;	cg16459519R	1stExon;5'UTR;5'UTR;1stExon	cg16459519
ZFAND3	NM_021943	cg16459725R cg16460164F	Body	cg16459725 cg16460164
SKAP1;SKAP1	NM_001075099;NM_003726	cg16460446R	TSS200;TSS200	cg16460446
CD81	NM_004356	cg16462701R	Body	cg16462701
TMEM62	NM_024956	cg16466278R cg16468183F	Body	cg16466278 cg16468183
SNX4	NM_003794	cg16468910F	Body	cg16468910
TMEM170B	NM_001100829	cg16471084R	TSS1500	cg16471084
KSR2	NM_173598	cg16471585R	Body	cg16471585
APOE	NM_000041	cg16471933F cg16475721R cg16481046F cg16483251R	Body	cg16471933 cg16475721 cg16481046 cg16483251

STK3	NM_006281	cg16483473F cg16484450R	Body	cg16483473 cg16484450
SNX29	NM_001080530	cg16490062F	Body	cg16490062
PLXNA2	NM_025179	cg16490470R	Body	cg16490470
DECR2	NM_020664	cg16492043F	Body	cg16492043
LOC441601	NR_003034	cg16492395R	Body	cg16492395
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg16492510F	Body;Body;Body	cg16492510
DYX1C1	NM_001033560	cg16492577R	3'UTR	cg16492577
SAMD3	NM_001017373	cg16493584R cg16494843R cg16495149F	TSS1500	cg16493584 cg16494843 cg16495149
CKB	NM_001823	cg16497661F	Body	cg16497661
CCNE2	NM_057749	cg16498681R cg16499607F	Body	cg16498681 cg16499607
ARMC3	NM_173081	cg16500769F	Body	cg16500769
FHOD1	NM_013241	cg16503279R	Body	cg16503279
PEX7;PEX7	NM_000288;NM_000288	cg16504641F	1stExon;5'UTR	cg16504641
UNKL	NM_023076	cg16507357F	5'UTR	cg16507357
PALM3	NM_001145028	cg16508101F	3'UTR	cg16508101
RASA2	NM_006506	cg16508522R	Body	cg16508522
HS3ST2	NM_006043	cg16508627R	Body	cg16508627
MAP4;MAP4;MAP4;MAP4	NM_030885;NM_030885;NM_030885;NM_030885	cg16509829R	5'UTR;1stExon;1stExon;1stExon	cg16509829
PABPC4;PABPC4;PABPC4	NM_001135653;NM_001135653;NM_001135653	cg16510040R	5'UTR;5'UTR;1stExon;1stExon	cg16510040
LAMB3;LAMB3;LAMB3	NM_001127641;NM_000228;NM_000228	cg16511494F cg16512795F	3'UTR;3'UTR;3'UTR	cg16511494 cg16512795
HERC2	NM_004667	cg16512924R	Body	cg16512924
SEMA5A	NM_003966	cg16513883R	Body	cg16513883
RSL1D1	NM_015659	cg16517021R	1stExon	cg16517021
SERINC5	NM_178276	cg16518115R	Body	cg16518115
FBF1	NM_001080542	cg16520049F	Body	cg16520049
LMX1A	NM_177398	cg16524049F	Body	cg16524049
C16orf38	NM_001013658	cg16524242R cg16526636F	1stExon	cg16524242 cg16526636
NDUFS3;KBTBD4;KBTBD4	NM_004551;NR_024222;NR_024222	cg16527794F	1stExon;TSS200;TSS200	cg16527794
LOC284551	NR_027085	cg16530130R cg16530981F cg16538471F	Body	cg16530130 cg16530981 cg16538471
WHSC2	NM_005663	cg16538604F cg16541075F	1stExon	cg16538604 cg16541075
ZFYVE1;ZFYVE1	NM_021260;NM_178441	cg16543876R	Body;Body	cg16543876
SLC28A2	NM_004212	cg16545196F	TSS1500	cg16545196
CLK2	NM_003993	cg16546681R cg16547354F	TSS1500	cg16546681 cg16547354
GIF	NM_005142	cg16550010F	TSS200	cg16550010
CCDC88B	NM_032251	cg16550438R	Body	cg16550438
LRRC70;IPO11;IPO11	NM_181506;NM_016338;NM_016338	cg16550656R	TSS1500;Body;Body	cg16550656
ZNF92;ZNF92	NM_007139;NM_152626	cg16553574R	5'UTR;Body	cg16553574
RASSF5;RASSF5	NM_182663;NM_182664	cg16554516R	TSS200;TSS200	cg16554516
IGF1R	NM_000875	cg16556504F	3'UTR	cg16556504
SNORD7	NR_003037	cg16556679F cg16558695F	TSS1500	cg16556679 cg16558695
TADA1;TADA1	NM_053053;NM_053053	cg16562251F	1stExon;5'UTR	cg16562251
CRABP1	NM_004378	cg16566391F cg16567763R	TSS1500	cg16566391 cg16567763

CD59;CD59;CD59;CD59	NM_000611;NM_203330;NM_000611	cg16568681F cg16568759F cg16571694F cg16572020F cg16572695R	TSS1500;TSS1500;TSS1500	cg16568681 cg16568759 cg16571694 cg16572020 cg16572695
PIK3R2	NM_005027	cg16572859F cg16573130R	TSS200	cg16572859 cg16573130
LOC339788	NR_015405	cg16575530F	TSS1500	cg16575530
TMEM134;TMEM134;TMEM134	NM_001078651;NM_001078651	cg16575564F cg16578589F cg16578802F	TSS200;TSS200;TSS200	cg16575564 cg16578589 cg16578802
GXYLT2	NM_001080393	cg16580556F cg16580616R	Body	cg16580556 cg16580616
IL16	NM_172217	cg16580742F	5'UTR	cg16580742
PGR;PGR	NM_000926;NM_000926	cg16581884R cg16583381F	1stExon;5'UTR	cg16581884 cg16583381
ZDHHC22	NM_174976	cg16585306R	5'UTR	cg16585306
OSBPL10	NM_017784	cg16586383F cg16587518F	Body	cg16586383 cg16587518
SPTBN2	NM_006946	cg16588880R	Body	cg16588880
GLB1L2	NM_138342	cg16589461R cg16591272R	Body	cg16589461 cg16591272
RERE;RERE	NM_012102;NM_001042681	cg16591948R	Body;Body	cg16591948
GLB1L3	NM_001080407	cg16592326F	Body	cg16592326
CYTL1	NM_018659	cg16596755R cg16600020F	TSS1500	cg16596755 cg16600020
ZBTB1;ZBTB25;ZBTB1	NM_014950;NM_006977;NM_006977	cg16600432F cg16601146R	TSS1500;5'UTR;TSS1500	cg16600432 cg16601146
INTS1	NM_001080453	cg16601832R	Body	cg16601832
APRT;APRT	NM_001030018;NM_000485	cg16603012R	TSS1500;TSS1500	cg16603012
ITGB4;ITGB4;ITGB4	NM_001005731;NM_001005731	cg16603176R cg16606195F cg16608267F	Body;Body;Body	cg16603176 cg16606195 cg16608267
FZD7	NM_003507	cg16608617R cg16608672F	TSS1500	cg16608617 cg16608672
PBX2;GPSM3	NM_002586;NM_022107	cg16609995F	TSS1500;3'UTR	cg16609995
SLC1A3;SLC1A3	NM_001166696;NM_004172	cg16610086R	TSS200;TSS200	cg16610086
RNF187	NM_001010858	cg16611852F	Body	cg16611852
APC2	NM_005883	cg16613938F	3'UTR	cg16613938
AFG3L2	NM_006796	cg16615927R cg16617795R	TSS1500	cg16615927 cg16617795
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg16619995F	Body;Body	cg16619995
ANKRD11	NM_013275	cg16623734F	5'UTR	cg16623734
UMODL1;UMODL1	NM_173568;NM_001004416	cg16624482R	Body;Body	cg16624482
RNASE8	NM_138331	cg16627949F cg16631698F	1stExon	cg16627949 cg16631698
GYPB	NM_002100	cg16636571R	Body	cg16636571
HIST1H2BK;HIST1H2A1	NM_080593;NM_080596	cg16636692F cg16638931R	TSS1500;1stExon	cg16636692 cg16638931
FBXO31;FBXO31	NR_024568;NM_024735	cg16640553R cg16641903R cg16642063R	Body;Body	cg16640553 cg16641903 cg16642063
PDE1B;PDE1B	NM_001165975;NM_000924	cg16643603R	TSS200;Body	cg16643603
SLC29A4;SLC29A4	NM_001040661;NM_153247	cg16645977F	3'UTR;3'UTR	cg16645977



OR2M1P	NR_002141	cg16649915R	Body	cg16649915
C7orf57	NM_001100159	cg16650002F	Body	cg16650002
MAML3	NM_018717	cg16650096F	Body	cg16650096
TACC2;TACC2	NM_206862;NM_206861	cg16652855F	Body;Body	cg16652855
FAM20C	NM_020223	cg16658579F	Body	cg16658579
NCRNA00200	NR_015376	cg16659583F	Body	cg16659583
		cg16659657R		cg16659657
DUSP27	NM_001080426	cg16660899R	Body	cg16660899
		cg16661464R		cg16661464
		cg16663747F		cg16663747
CACNA1H;CACNA1H	NM_021098;NM_001005407	cg16665866F	Body;Body	cg16665866
		cg16669468R		cg16669468
UFC1	NM_016406	cg16673712F	TSS1500	cg16673712
TTC38	NM_017931	cg16674248F	Body	cg16674248
CACNG3	NM_006539	cg16678467R	TSS1500	cg16678467
GYPE;GYPE	NM_198682;NM_002102	cg16682657F	TSS1500;TSS1500	cg16682657
		cg16684607F		cg16684607
HEY1;HEY1	NM_001040708;NM_012258	cg16684661R	Body;Body	cg16684661
PPAP2C;PPAP2C;PPAP2C	NM_003712;NM_177526;NM_177526	cg16691033F	Body;5'UTR;TSS200	cg16691033
FOXK2	NM_004514	cg16692534F	Body	cg16692534
LPAR2	NM_004720	cg16692998F	TSS200	cg16692998
GNG12	NM_018841	cg16693012F	5'UTR	cg16693012
		cg16694007R		cg16694007
MIR1974;C5orf36;C5orf36	NR_031738;NM_173665;NM_173665	cg16695999R	TSS200;5'UTR;5'UTR	cg16695999
HLA-DRB5	NM_002125	cg16699635F	TSS1500	cg16699635
TDRD9	NM_153046	cg16701547R	Body	cg16701547
MGAT5	NM_002410	cg16702362R	Body	cg16702362
		cg16703420R		cg16703420
LMLN;IQCG;LMLN;LML	NR_026786;NM_032263;NR_032263	cg16704241F	TSS1500;5'UTR;TSS1500	cg16704241
ZDHHC1	NM_013304	cg16707391F	5'UTR	cg16707391
CTTN;CTTN	NM_138565;NM_005231	cg16709342R	Body;Body	cg16709342
STK24	NM_001032296	cg16711597F	Body	cg16711597
TNIK;TNIK;TNIK;TNIK;TNM	001161563;NM_001161	cg16713465F	Body;Body;Body;Body;Body	cg16713465
		cg16713574R		cg16713574
ILF3;ILF3;ILF3;ILF3;ILF3	NM_012218;NM_001137673	cg16714605R	1stExon;5'UTR;1stExon;	cg16714605
CHMP1A;CHMP1A	NM_001083314;NM_002768	cg16717988F	Body;Body	cg16717988
C1orf86;LOC100128003;C	1orf86;NR_024445;NR_024445	cg16718276R	Body;TSS200;Body	cg16718276
TNRC18	NM_001080495	cg16718902R	Body	cg16718902
KLHL6	NM_130446	cg16725607R	TSS1500	cg16725607
ZNF423	NM_015069	cg16728225F	Body	cg16728225
NBEA	NM_015678	cg16735881F	Body	cg16735881
SDK1	NM_152744	cg16736279R	Body	cg16736279
TMBIM4	NM_016056	cg16741245F	TSS1500	cg16741245
ODZ3	NM_001080477	cg16741463R	Body	cg16741463
		cg16744250F		cg16744250
MIR941-1;MIR941-3;MIR941-3	NR_030637;NR_030639;NR_030639	cg16745104F	TSS1500;TSS1500;TSS1500	cg16745104
FAM190B	NM_018999	cg16745159R	5'UTR	cg16745159
TRPV6	NM_018646	cg16752583F	TSS1500	cg16752583
APOL6	NM_030641	cg16753494R	3'UTR	cg16753494
		cg16754455R		cg16754455
ZNF605;ZNF605	NM_183238;NM_001164715	cg16754643F	Body;Body	cg16754643
FGD4	NM_139241	cg16754929F	Body	cg16754929
		cg16755067R		cg16755067
		cg16757992R		cg16757992

ATP6V1A	NM_001690	cg16758764F	3'UTR	cg16758764
TXNL4A	NM_006701	cg16759783F	Body	cg16759783
NTM;NTM;NTM;NTM	NM_001144059;NM_001048	cg16763885R	Body;Body;Body;Body	cg16763885
DCLK1	NM_004734	cg16766613F	Body	cg16766613
ADAM28	NM_014265	cg16767652F	3'UTR	cg16767652
GUCY2E	NR_024042	cg16768850F	Body	cg16768850
TBC1D16	NM_019020	cg16775460F	Body	cg16775460
GPHN;GPHN	NM_020806;NM_001024218	cg16777028R cg16777910F	Body;Body	cg16777028 cg16777910
ERICH1	NM_207332	cg16779811R cg16783668F	Body	cg16779811 cg16783668
SNW1	NM_012245	cg16788179F	Body	cg16788179
RNF166	NM_178841	cg16789707R	Body	cg16789707
DPY19L4	NM_181787	cg16792347F	3'UTR	cg16792347
SH3RF1	NM_020870	cg16793173F cg16797514F cg16798825F	Body	cg16793173 cg16797514 cg16798825
GABRA5;GABRA5	NM_001165037;NM_000810	cg16803846R cg16803967R	TSS1500;TSS1500	cg16803846 cg16803967
FLJ22536	NR_015410	cg16804603R	Body	cg16804603
MDN1	NM_014611	cg16809457F cg16809542R cg16810457R	Body	cg16809457 cg16809542 cg16810457
RAB2A	NM_002865	cg16810519R cg16812288R cg16812480R	TSS200	cg16810519 cg16812288 cg16812480
C20orf46	NM_018354	cg16812606R	3'UTR	cg16812606
ANK2	NM_001127493	cg16817413R	Body	cg16817413
MUTYH;MUTYH;TOE1;NM	NM_012222;NM_001048173	cg16817426F	TSS1500;TSS1500;Body	cg16817426
ARMC3	NM_173081	cg16819392F cg16819573R	3'UTR	cg16819392 cg16819573
EEFSEC;MIR1280	NM_021937;NR_031703	cg16821175F cg16822841F	Body;TSS200	cg16821175 cg16822841
APBB2;APBB2;APBB2;APNM	NM_004307;NM_001166052	cg16823610R	Body;5'UTR;5'UTR;5'U	cg16823610
PRR5L	NM_001160167	cg16829924R	5'UTR	cg16829924
DCTN2	NM_006400	cg16834726F	Body	cg16834726
PKN1	NM_002741	cg16838001R	TSS1500	cg16838001
PDGFRA	NM_006206	cg16838723F cg16838838F cg16839093F	Body	cg16838723 cg16838838 cg16839093
QRSL1;RTN4IP1;QRSL1	NM_018292;N I_032730;NM	cg16840889R	1stExon;TSS200;5'UTR	cg16840889
NCRNA00174	NR_026873	cg16844292F	Body	cg16844292
CUL3	NM_003590	cg16844539R	Body	cg16844539
SCNN1A;SCNN1A;SCNN	NM_001159575;NM_001038	cg16846069R cg16846728F	Body;Body;Body	cg16846069 cg16846728
SDK1;SDK1	NR_027816;NM_152744	cg16851584F	Body;Body	cg16851584
PCF11	NM_015885	cg16852767F	Body	cg16852767
GRAMD1C	NM_017577	cg16854049R	Body	cg16854049
DNAJC4	NM_005528	cg16855422R	5'UTR	cg16855422
ESAM	NM_138961	cg16857192R	Body	cg16857192
AOAH	NM_001637	cg16858211F	TSS1500	cg16858211
RUNDC3A;RUNDC3A;RUNM	NM_001144826;NM_001144	cg16861818R	Body;Body;Body	cg16861818
ROBO1	NM_002941	cg16861959F cg16861968F	Body	cg16861959 cg16861968

PLD1;PLD1	NM_001130081;NM_002662	cg16864295R cg16864825F cg16865953R	5'UTR;5'UTR	cg16864295 cg16864825 cg16865953
KIAA1244	NM_020340	cg16868145R	Body	cg16868145
AFG3L2	NM_006796	cg16868190R	TSS200	cg16868190
FBXW9	NM_032301	cg16868591F	Body	cg16868591
TMEM89	NM_001008269	cg16869281R	TSS200	cg16869281
ACVR2B	NM_001106	cg16870585R	Body	cg16870585
TUBB4;MIR220B	NM_006087;NR_030585	cg16872756R	Body;TSS1500	cg16872756
LRR2;TDGF1;TDGF1	NM_024750;NM_003212;NM_003212	cg16875182F	5'UTR;1stExon;5'UTR	cg16875182
DLX5	NM_005221	cg16876790F	TSS1500	cg16876790
TEX11;TEX11	NM_031276;NM_001003811	cg16881398F cg16884295F	TSS200;TSS200	cg16881398 cg16884295
NXN	NM_022463	cg16885779R	Body	cg16885779
TSTA3	NM_003313	cg16888603F	Body	cg16888603
GIMAP6;GIMAP6	NR_024115;NM_024711	cg16890939R	TSS1500;TSS1500	cg16890939
FOXN1	NM_003593	cg16892303R	TSS1500	cg16892303
PODN	NM_153703	cg16899892F cg16900091F	Body	cg16899892 cg16900091
LMOD1	NM_012134	cg16903217R cg16906995F	TSS1500	cg16903217 cg16906995
LRR20;LRR20;LRR20	NM_018239;NM_018205;NM_018205	cg16912134R	Body;Body;Body	cg16912134
RPP25	NM_017793	cg16914151R	TSS200	cg16914151
MEF2A;MEF2A;MEF2A	NM_001130927;NM_005587	cg16920189R	TSS1500;TSS1500;TSS1500	cg16920189
CCDC57	NM_198082	cg16920238R	Body	cg16920238
PARD3B;PARD3B;PARD3B	NM_152526;NM_057177;NM_057177	cg16924816F	Body;Body;Body	cg16924816
PANX2;PANX2;PANX2	NM_052839;NR_027691;NM_052839	cg16926050R	Body;Body;Body	cg16926050
HDAC10;HDAC10;TUBG1	NM_001159286;NM_032019	cg16927872R	3'UTR;3'UTR;TSS1500	cg16927872
EMX1	NM_004097	cg16928066R	Body	cg16928066
STARD13;STARD13	NM_052851;NM_178006	cg16930746R	TSS1500;Body	cg16930746
MID1IP1;MID1IP1	NM_001098790;NM_001098	cg16934986F	TSS1500;TSS1500	cg16934986
HOPX;HOPX;HOPX;HOPX	NM_139212;NM_032495;NM_032495;NM_032495	cg16936060F	5'UTR;Body;Body;TSS1500	cg16936060
COX11;COX11;COX11;COX11	NR_027942;NM_001162861;NM_001162861;NM_001162861	cg16950616R cg16950627F cg16952974R cg16953753F	Body;Body;Body;Body;TSS1500	cg16950616 cg16950627 cg16952974 cg16953753
OR14J1	NM_030946	cg16958668R	1stExon	cg16958668
FBLN2;FBLN2	NM_001004019;NM_001998	cg16960810R	5'UTR;5'UTR	cg16960810
MAGEA5	NM_021049	cg16962802R	TSS1500	cg16962802
BEND7;BEND7	NM_152751;NM_001100912	cg16962838F	Body;Body	cg16962838
NT5C3;NT5C3	NR_029372;NM_001002010	cg16963286F	TSS200;TSS200	cg16963286
UBA7;UBA7	NM_003335;NM_003335	cg16970828R	5'UTR;1stExon	cg16970828
FES;FES;FES;FES	NM_001143784;NM_001143	cg16976547F cg16985333R	Body;Body;Body;Body	cg16976547 cg16985333
FOXS1	NM_004118	cg16985632R	1stExon	cg16985632
EXPH5	NM_015065	cg16988008R cg16989380F	Body	cg16988008 cg16989380
KIAA1549;KIAA1549	NM_001164665;NM_020910	cg16989867F cg16995791F	Body;Body	cg16989867 cg16995791
ZCCHC14	NM_015144	cg16995959F cg16996574R	Body	cg16995959 cg16996574
TSEN15;TSEN15;TSEN15	NM_001127394;NR_023349;NR_023349	cg16998327R cg17001194R cg17001531R	1stExon;Body;1stExon	cg16998327 cg17001194 cg17001531

DFFB	NM_004402	cg17002428F cg17003260F	Body	cg17002428 cg17003260
CARS;CARS;CARS;CARS	NM_001014437;NM_001751	cg17004353F cg17012502F	Body;Body;5'UTR;Body	cg17004353 cg17012502
MCART3P	NR_026540	cg17014035R	Body	cg17014035
ATXN1;ATXN1	NM_001128164;NM_000332	cg17014647R	5'UTR;5'UTR	cg17014647
LOC723972	NR_003144	cg17014947R cg17016703F	TSS200	cg17014947 cg17016703
CTSB;CTSB;CTSB;CTSB;	NM_147780;NM_147782;NM_147783;NM_147784	cg17019285R cg17022488R	5'UTR;5'UTR;5'UTR;5'UTR	cg17019285 cg17022488
CEMP1;CEMP1	NM_001048212;NM_001048	cg17023419F	1stExon;5'UTR	cg17023419
VTI1A	NM_145206	cg17026838F cg17028450R	Body	cg17026838 cg17028450
MSMB;MSMB	NM_138634;NM_002443	cg17030820F	TSS1500;TSS1500	cg17030820
GRASP	NM_181711	cg17031475F	3'UTR	cg17031475
SLC25A19;SLC25A19;SLC25A19	NM_001126122;NM_001126	cg17037329R cg17038417F	TSS200;TSS200;TSS200	cg17037329 cg17038417
HIST1H4C	NM_003542	cg17042849R	1stExon	cg17042849
HLA-DQB2	NR_003937	cg17043222F cg17045804R cg17046855R	TSS1500	cg17043222 cg17045804 cg17046855
C8orf34	NM_052958	cg17047033R	TSS1500	cg17047033
EXTL3	NM_001440	cg17047311F	3'UTR	cg17047311
NGEF;NGEF	NM_001114090;NM_019850	cg17048169F cg17048301R	3'UTR;3'UTR	cg17048169 cg17048301
FZD2	NM_001466	cg17049621R cg17050704F cg17050807F cg17054485R	1stExon	cg17049621 cg17050704 cg17050807 cg17054485
RANGAP1	NM_002883	cg17054640F cg17054879R cg17055585R cg17055794R	5'UTR	cg17054640 cg17054879 cg17055585 cg17055794
FLII	NM_002018	cg17055950R	Body	cg17055950
ARHGAP15	NM_018460	cg17056048R	Body	cg17056048
CD300LF;RAB37;CD300L	NM_139018;NM_175738;NM_175739	cg17056607R cg17056747R cg17061206F	5'UTR;Body;1stExon	cg17056607 cg17056747 cg17061206
C4orf42;C4orf42	NM_052861;NM_052861	cg17061595F	3'UTR;1stExon	cg17061595
RASL10A;RASL10A	NM_001007279;NM_006477	cg17064564R	Body;Body	cg17064564
C11orf54	NM_014039	cg17065810F	Body	cg17065810
RGS12;RGS12	NM_198229;NM_198227	cg17066954F	Body;Body	cg17066954
CREB5;CREB5	NM_182898;NM_182899	cg17067116F	TSS1500;5'UTR	cg17067116
FNDC3B;FNDC3B	NM_022763;NM_001135095	cg17071181F	5'UTR;TSS1500	cg17071181
P2RX1;P2RX1	NM_002558;NM_002558	cg17071855F	1stExon;5'UTR	cg17071855
MARCH6	NM_005885	cg17076397F cg17076431F	TSS200	cg17076397 cg17076431
ARHGEF10L;ARHGEF10	NM_001011722;NM_018125	cg17078864R	3'UTR;3'UTR	cg17078864
MEST;MEST;MEST;MES	NM_002402;NM_177524;NM_177525	cg17079325F	TSS1500;5'UTR;5'UTR;	cg17079325
GPX6	NM_182701	cg17079455R cg17092583R	Body	cg17079455 cg17092583
COL11A1;COL11A1;COL11A1	NM_080629;NM_080630;NM_080631	cg17092860R	Body;Body;Body;Body	cg17092860
SLC15A5	NM_001170798	cg17097481R cg17098255F	TSS1500	cg17097481 cg17098255

RCBTB1	NM_018191	cg17098415R cg17099306R cg17099931R	Body	cg17098415 cg17099306 cg17099931
KIAA0895L	NM_001040715	cg17105206F	Body	cg17105206
BFSP1;BFSP1	NM_001161705;NM_001195	cg17106526F cg17112812F	3'UTR;3'UTR	cg17106526 cg17112812
LRRN2;LRRN2	NM_201630;NM_006338	cg17112828R	TSS1500;TSS1500	cg17112828
ANKRD36	NM_001164315	cg17114402R	TSS1500	cg17114402
CDR2L	NM_014603	cg17115402R cg17118812R	Body	cg17115402 cg17118812
TMEM132B	NM_052907	cg17120607F	Body	cg17120607
BNC1	NM_001717	cg17124224F	TSS1500	cg17124224
C1orf101;C1orf101	NM_001130957;NM_173807	cg17126573R	Body;Body	cg17126573
ANGPT4	NM_015985	cg17130481F cg17131580R cg17132591R	3'UTR	cg17130481 cg17131580 cg17132591
C11orf63;C11orf63	NM_199124;NM_024806	cg17134890R	TSS200;TSS200	cg17134890
SYNJ2	NM_003898	cg17135459R	Body	cg17135459
UHRF1BP1	NM_017754	cg17136038F	Body	cg17136038
SULT1E1	NM_005420	cg17136384R	5'UTR	cg17136384
FMN1	NM_001103184	cg17137426R	Body	cg17137426
ZNF827	NM_178835	cg17140208F	Body	cg17140208
DIP2C	NM_014974	cg17142816R cg17143303F cg17144988R	Body	cg17142816 cg17143303 cg17144988
KISS1R	NM_032551	cg17147995F cg17148876F	Body	cg17147995 cg17148876
CNNM4	NM_020184	cg17149980R	TSS200	cg17149980
ZFAND3	NM_021943	cg17150074R	Body	cg17150074
PPP3CB;PPP3CB;PPP3CB	NM_001142354;NM_001142	cg17151604R	3'UTR;3'UTR;3'UTR	cg17151604
ProSAPiP1	NM_014731	cg17153082F	Body	cg17153082
MACROD1	NM_014067	cg17153794F	Body	cg17153794
NEIL2;NEIL2;NEIL2;NEIL2	NM_145043;NM_001135748	cg17155499R	3'UTR;3'UTR;3'UTR;3'UTR	cg17155499
CATSPER4	NM_198137	cg17158829F	TSS1500	cg17158829
PROM1;PROM1;PROM1;PROM1	PNM_001145848;NM_001145	cg17160094R	Body;Body;Body;Body;Body	cg17160094
PIGU	NM_080476	cg17162808F	TSS1500	cg17162808
MIR568	NR_030293	cg17164827R	TSS1500	cg17164827
CILP2	NM_153221	cg17165990R	Body	cg17165990
SNORD74;ZBTB37;GAS5;NR_002579;NR_001122770;	cg17170111F		TSS1500;5'UTR;TSS1500	cg17170111
C7orf13;RNF32;RNF32	NR_026865;NM_030936;NM_001170568	cg17170568R	TSS200;1stExon;5'UTR	cg17170568
FAM63A;FAM63A;PRUNE1	NM_018379;NM_018379;NM_001172773	cg17172773R	1stExon;5'UTR;TSS200;	cg17172773
RFXANK;RFXANK	NM_003721;NM_134440	cg17173442F cg17176029R	Body;Body	cg17173442 cg17176029
RAB11A	NM_004663	cg17176978R cg17180873R	Body	cg17176978 cg17180873
CACHD1	NM_020925	cg17181043R cg17181167F cg17186132R cg17187041F cg17187439R	Body	cg17181043 cg17181167 cg17186132 cg17187041 cg17187439
PIGG;PIGG	NM_017733;NM_001127178	cg17196244R cg17198019F	Body;Body	cg17196244 cg17198019
EXOC4;EXOC4	NM_021807;NM_001037126	cg17198123R	Body;Body	cg17198123
PARD3	NM_019619	cg17200577R	Body	cg17200577

GPAA1	NM_003801	cg17201535R	Body	cg17201535
ZBTB47	NM_145166	cg17201947R	Body	cg17201947
BTBD3;BTBD3	NM_181443;NM_014962	cg17202331F	5'UTR;TSS1500	cg17202331
UBE2D2;UBE2D2	NM_181838;NM_003339	cg17204510R	5'UTR;Body	cg17204510
LOC84931	NR_027181	cg17204557R	Body	cg17204557
TOB2;TOB2	NM_016272;NM_016272	cg17205877F	1stExon;5'UTR	cg17205877
		cg17206564R		cg17206564
		cg17207552R		cg17207552
APH1B;APH1B	NM_001145646;NM_031301	cg17207590R	Body;Body	cg17207590
		cg17209769R		cg17209769
CCDC37	NM_182628	cg17212511R	Body	cg17212511
PTPRF;PTPRF	NM_002840;NM_130440	cg17213946F	5'UTR;5'UTR	cg17213946
OSBPL5;OSBPL5;OSBPL	NM_020896;NM_001144063	cg17214754R	5'UTR;5'UTR;5'UTR	cg17214754
INPP5A	NM_005539	cg17215172F	Body	cg17215172
SIGLEC10;SIGLEC10;SIG	NM_001171160;NM_001171	cg17215680R	1stExon;5'UTR;5'UTR;5'	cg17215680
		cg17216243R		cg17216243
		cg17216266R		cg17216266
TRAM2	NM_012288	cg17216600R	TSS1500	cg17216600
VIPR2	NM_003382	cg17217017R	Body	cg17217017
		cg17217741F		cg17217741
OSBPL2;OSBPL2	NM_144498;NM_014835	cg17217996F	Body;Body	cg17217996
		cg17223045F		cg17223045
ALG6	NM_013339	cg17225006F	Body	cg17225006
		cg17225947F		cg17225947
		cg17232883R		cg17232883
HOXB1	NM_002144	cg17233506R	TSS200	cg17233506
CNOT8	NM_004779	cg17235179F	5'UTR	cg17235179
C7orf28B	NM_198097	cg17236293F	TSS200	cg17236293
		cg17240701R		cg17240701
ZBTB12	NM_181842	cg17243044F	Body	cg17243044
RBM38;RBM38;RBM38;R	NM_017495;NM_183425;NM	cg17251379F	1stExon;1stExon;5'UTR;	cg17251379
		cg17251423R		cg17251423
DGKQ	NM_001347	cg17256253R	TSS1500	cg17256253
		cg17256697F		cg17256697
RNF130	NM_018434	cg17258537R	Body	cg17258537
ITGA4	NM_000885	cg17265419F	TSS200	cg17265419
		cg17267508F		cg17267508
ZNF254	NM_203282	cg17268801R	TSS200	cg17268801
		cg17269565F		cg17269565
TNFRSF13B	NM_012452	cg17269581F	TSS1500	cg17269581
FRAT1;FRAT1	NM_005479;NM_005479	cg17270843F	1stExon;5'UTR	cg17270843
ZDHHC8P	NR_003950	cg17273045R	TSS200	cg17273045
AGBL1	NM_152336	cg17273384F	TSS1500	cg17273384
SLC25A1	NM_005984	cg17274357R	3'UTR	cg17274357
SEN3	NM_015670	cg17274771R	TSS1500	cg17274771
BCAR3	NM_003567	cg17274827R	Body	cg17274827
FRAS1;FRAS1	NM_025074;NM_001166133	cg17274881R	Body;Body	cg17274881
TOM1L2;TOM1L2	NM_001033551;NM_001082	cg17278472R	Body;Body	cg17278472
		cg17278595F		cg17278595
PCTP;PCTP	NM_001102402;NM_021213	cg17279789F	TSS200;TSS200	cg17279789
PAX6	NM_001127612	cg17280740F	TSS1500	cg17280740
DIAPH2;DIAPH2	NM_006729;NM_007309	cg17281073F	Body;Body	cg17281073
CEP63;CEP63;CEP63;CEP	NM_001042383;NM_001042	cg17281297R	5'UTR;5'UTR;5'UTR;5'U	cg17281297
		cg17286157R		cg17286157

MGC16384;SLC15A4	NR_026666;NM_145648	cg17288256R cg17292729F	TSS1500;Body	cg17288256 cg17292729
SCN4A	NM_000334	cg17295589R	Body	cg17295589
SPPL2A	NM_032802	cg17296165R	Body	cg17296165
SYDE1	NM_033025	cg17298403R	TSS200	cg17298403
GNAI1	NM_002069	cg17298543R cg17299412F cg17299437R	Body	cg17298543 cg17299412 cg17299437
PRKCH	NM_006255	cg17306848F	Body	cg17306848
AKAP8	NM_005858	cg17311290R cg17311865R cg17313709F	Body	cg17311290 cg17311865 cg17313709
LGI3	NM_139278	cg17316784R	3'UTR	cg17316784
COL13A1;COL13A1;COL13A1	NM_080798;NM_080809;NM_080810	cg17319294R cg17321888R cg17324872R cg17335108R	Body;Body;Body;Body;Body	cg17319294 cg17321888 cg17324872 cg17335108
NRAP;NRAP	NM_006175;NM_198060	cg17337269F	Body;Body	cg17337269
KDM4B	NM_015015	cg17339794F cg17340170R	Body	cg17339794 cg17340170
AHNAK2	NM_138420	cg17340268F cg17342360F cg17344340F	Body	cg17340268 cg17342360 cg17344340
C14orf68	NM_207117	cg17346559R cg17346866R cg17355294R	Body	cg17346559 cg17346866 cg17355294
PRKCZ	NM_002744	cg17355877R cg17356056F	Body	cg17355877 cg17356056
TRAM1L1	NM_152402	cg17358127R cg17361593R	1stExon	cg17358127 cg17361593
LPHN3	NM_015236	cg17365377R cg17366013R	Body	cg17365377 cg17366013
HLA-DOB	NM_002120	cg17369196F cg17370357R	Body	cg17369196 cg17370357
MXD4	NM_006454	cg17370785R	3'UTR	cg17370785
SCN11A	NM_014139	cg17373716F	TSS1500	cg17373716
FLJ25363;FLJ25363	NM_001145553;NM_001145554	cg17376141F	1stExon;5'UTR	cg17376141
NEK4	NM_003157	cg17378387F cg17380160R cg17380780R cg17381798R	Body	cg17378387 cg17380160 cg17380780 cg17381798
CXCR5	NM_001716	cg17382048R	TSS200	cg17382048
KCND1	NM_004979	cg17383222F	Body	cg17383222
SUCNR1	NM_033050	cg17383421R	Body	cg17383421
PUM2	NM_015317	cg17383778R	Body	cg17383778
MOCS2;MOCS2	NM_176806;NM_004531	cg17383793F cg17384323R	TSS200;TSS1500	cg17383793 cg17384323
GAK	NM_005255	cg17385318F	Body	cg17385318
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM_130843	cg17385549R cg17387694R	Body;Body;Body	cg17385549 cg17387694
STK32C	NM_173575	cg17389949R	Body	cg17389949
TMEM22;TMEM22;TMEM22	NM_001097600;NM_025246	cg17391339F	5'UTR;5'UTR;5'UTR	cg17391339
ZBTB45	NM_032792	cg17391518R	Body	cg17391518
FRG1	NM_004477	cg17393568F	TSS200	cg17393568

NKX2-4	NM_033176	cg17396222F		cg17396222
ADAM33;ADAM33	NM_153202;NM_025220	cg17398677R	Body	cg17398677
DDX41	NM_016222	cg17401106R	Body;Body	cg17401106
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_002847	cg17401635R	TSS200	cg17401635
FAM120B	NM_032448	cg17401720R	Body;Body;Body	cg17401720
		cg17402279R	3'UTR	cg17402279
		cg17403397F		cg17403397
KIFC1;KIFC1	NM_002263;NM_002263	cg17403520R	5'UTR;1stExon	cg17403520
CNFN	NM_032488	cg17403899R	5'UTR	cg17403899
AGTR2	NM_000686	cg17403974R	Body	cg17403974
GAR1;GAR1	NM_032993;NM_018983	cg17404403R	5'UTR;5'UTR	cg17404403
GNA13	NM_006572	cg17413194F	TSS1500	cg17413194
ENPP1	NM_006208	cg17413252F	Body	cg17413252
FGD4	NM_139241	cg17414372F	5'UTR	cg17414372
ZNF429	NM_001001415	cg17414733F	Body	cg17414733
		cg17415326R		cg17415326
		cg17419329F		cg17419329
		cg17420675F		cg17420675
TCF7L2;TCF7L2;TCF7L2	NR_001146284;NM_001146	cg17421021F	Body;Body;Body;Body	cg17421021
		cg17422403R		cg17422403
FTHL3;PPM1G;PPM1G	NR_002201;NM_002707;NM_002201	cg17424134R	Body;Body;Body	cg17424134
		cg17424859R		cg17424859
NKPD1	NM_198478	cg17428519F	Body	cg17428519
TNFRSF1B	NM_001066	cg17428954F	Body	cg17428954
DYNC1I1;DYNC1I1;DYN	NM_004411;NM_001135556	cg17429234R	TSS1500;TSS1500;TSS1500	cg17429234
FRG2B	NM_001080998	cg17432154F	TSS1500	cg17432154
TNIP2;TNIP2	NM_024309;NM_001161527	cg17434366F	Body;Body	cg17434366
		cg17435575F		cg17435575
UBE2K;UBE2K;UBE2K	NM_001111113;NM_005339	cg17436946R	TSS200;TSS200;TSS200	cg17436946
FLJ43663;FLJ43663	NR_015431;NR_024153	cg17437088F	Body;Body	cg17437088
EPHX1	NM_001136018	cg17442483F	TSS1500	cg17442483
		cg17442548F		cg17442548
		cg17443007R		cg17443007
INPP5A	NM_005539	cg17444479R	Body	cg17444479
NPB	NM_148896	cg17445839F	TSS200	cg17445839
AIFM2	NM_032797	cg17446739F	TSS200	cg17446739
NOD1	NM_006092	cg17447300R	Body	cg17447300
PRDM14	NM_024504	cg17450425F	5'UTR	cg17450425
TRIM10;TRIM10	NM_006778;NM_052828	cg17451015R	Body;Body	cg17451015
		cg17452570F		cg17452570
		cg17454298R		cg17454298
MIR548N;PLEKHA3	NR_031666;NM_019091	cg17458653R	Body;TSS200	cg17458653
VDAC3;VDAC3	NM_001135694;NM_005662	cg17459219F	TSS1500;TSS1500	cg17459219
PSME3;PSME3;PSME3;PS	NM_005789;NM_176863;NM_005789	cg17460285R	5'UTR;1stExon;5'UTR;1stExon	cg17460285
		cg17460597R		cg17460597
		cg17462559R		cg17462559
MINK1;MINK1;MINK1;M	NM_015716;NM_153827;NM_015716	cg17463508F	Body;Body;Body;Body	cg17463508
TRIM11	NM_145214	cg17465697F	1stExon	cg17465697
CDK16	NM_033018	cg17465884R	TSS1500	cg17465884
		cg17466245R		cg17466245
DNAJC27	NM_016544	cg17466768R	Body	cg17466768
HOXA11AS;HOXA11	NR_002795;NM_005523	cg17466857F	Body;TSS1500	cg17466857
TCEB1;TCEB1	NM_005648;NM_005648	cg17470723F	5'UTR;1stExon	cg17470723
		cg17471456F		cg17471456



		cg17472297F		cg17472297
		cg17475200F		cg17475200
SHROOM3	NM_020859	cg17476223R	Body	cg17476223
ZNF705A	NM_001004328	cg17479811F	Body	cg17479811
KIAA1244	NM_020340	cg17480438F	Body	cg17480438
PMEPA1;PMEPA1;PMEPANM_199170;NM_199169;NM_199170		cg17482197R	TSS200;TSS200;5'UTR;TSS200	cg17482197
		cg17482273R		cg17482273
AHCYL2;AHCYL2;AHCYNM_001130722;NM_001130		cg17483792R	Body;Body;Body;Body	cg17483792
CABLES2	NM_031215	cg17484976F	TSS200	cg17484976
EIF2C2;EIF2C2	NM_012154;NM_001164623	cg17486429F	Body;Body	cg17486429
ASAP3;ASAP3	NM_001143778;NM_017707	cg17491185F	TSS1500;TSS1500	cg17491185
		cg17491656R		cg17491656
PRKCZ;PRKCZ	NM_002744;NM_001033581	cg17495046R	Body;5'UTR	cg17495046
EPPK1	NM_031308	cg17497536R	1stExon	cg17497536
TTBK1	NM_032538	cg17502394R	Body	cg17502394
SPIRE2	NM_032451	cg17504203F	TSS200	cg17504203
		cg17504737F		cg17504737
		cg17505409F		cg17505409
LMTK2	NM_014916	cg17508434R	Body	cg17508434
RIMS1;RIMS1;RIMS1;RIMNM_001168409;NM_001168		cg17508500F	5'UTR;Body;Body;Body	cg17508500
PINK1	NM_032409	cg17508639R	TSS1500	cg17508639
SORL1	NM_003105	cg17510957R	Body	cg17510957
TMEM132D	NM_133448	cg17513770R	Body	cg17513770
		cg17516997R		cg17516997
LUZP1;LUZP1	NM_033631;NM_001142546	cg17520080R	TSS200;TSS200	cg17520080
		cg17521526R		cg17521526
KRT72;KRT72;KRT72	NM_080747;NM_001146225	cg17522550F	Body;Body;Body	cg17522550
CHFR;CHFR;CHFR;CHFRNM_001161345;NM_001161		cg17524886R	Body;Body;Body;Body;Body	cg17524886
WDFY4	NM_020945	cg17526462R	TSS1500	cg17526462
PVT1	NR_003367	cg17531142R	Body	cg17531142
CBX4	NM_003655	cg17533847R	Body	cg17533847
SCARB1;SCARB1	NM_001082959;NM_005505	cg17534092F	Body;Body	cg17534092
		cg17534540R		cg17534540
		cg17536091R		cg17536091
		cg17536603R		cg17536603
FLJ44635;FLJ44635	NM_207422;NM_207422	cg17537348F	1stExon;5'UTR	cg17537348
GLS	NM_014905	cg17537719F	Body	cg17537719
ROBO1	NM_002941	cg17542097F	Body	cg17542097
ODZ4	NM_001098816	cg17542408F	Body	cg17542408
		cg17545300F		cg17545300
LOC285830;LOC285830	NR_026972;NR_026973	cg17546147R	Body;Body	cg17546147
		cg17547020R		cg17547020
PCGF3	NM_006315	cg17547928F	Body	cg17547928
		cg17552696F		cg17552696
		cg17553608R		cg17553608
DNAH10	NM_207437	cg17562584F	Body	cg17562584
IGHMBP2	NM_002180	cg17564820R	Body	cg17564820
		cg17566920R		cg17566920
		cg17569413R		cg17569413
		cg17574550F		cg17574550
		cg17575113F		cg17575113
		cg17575124F		cg17575124
MATR3;MATR3	NM_018834;NM_199189	cg17576266R	5'UTR;5'UTR	cg17576266
		cg17576736F		cg17576736

FAM109A	NM_144671	cg17577636F	Body	cg17577636
GPR123	NM_001083909	cg17577701R	Body	cg17577701
SNORA69;RPL39	NR_002584;NM_001000	cg17578642F	TSS1500;Body	cg17578642
FASN	NM_004104	cg17581200F	Body	cg17581200
FAM53A	NM_001013622	cg17584303R	Body	cg17584303
ZNF768	NM_024671	cg17585279F	TSS200	cg17585279
		cg17586368F		cg17586368
ADAM22;ADAM22;ADAM	NM_021721;NM_021723;NM	cg17589437R	1stExon;5'UTR;1stExon;	cg17589437
		cg17590083R		cg17590083
		cg17590499R		cg17590499
PRKAR1B;PRKAR1B;PRK	NM_001164762;NM_001164	cg17593625F	TSS1500;5'UTR;5'UTR;	cg17593625
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg17593934R	Body;Body;Body	cg17593934
NCRNA00160	NR_024351	cg17595945F	Body	cg17595945
RB1CC1;RB1CC1	NM_014781;NM_001083617	cg17597744R	TSS200;TSS200	cg17597744
ARHGAP10	NM_024605	cg17598704R	Body	cg17598704
ARHGAP15	NM_018460	cg17600630F	Body	cg17600630
C5orf30	NM_033211	cg17605604F	3'UTR	cg17605604
EFS;EFS;EFS;EFS	NM_005864;NM_032459;NM	cg17606785F	1stExon;1stExon;5'UTR;	cg17606785
RSBN1L	NM_198467	cg17609731F	TSS1500	cg17609731
POFUT2;POFUT2;POFUT	NR_004858;NM_015227;NM	cg17611446F	Body;Body;Body	cg17611446
PRKAG2;PRKAG2	NM_016203;NM_001040633	cg17611936R	Body;Body	cg17611936
		cg17618987F		cg17618987
RFXAP	NM_000538	cg17620425F	3'UTR	cg17620425
		cg17622246F		cg17622246
USP49	NM_018561	cg17623882R	Body	cg17623882
		cg17624891F		cg17624891
		cg17625891F		cg17625891
TAOK3	NM_016281	cg17627898R	5'UTR	cg17627898
		cg17631454F		cg17631454
PIN4	NM_001170747	cg17634825F	3'UTR	cg17634825
E2F5;E2F5	NM_001951;NM_001083588	cg17638730F	TSS1500;TSS1500	cg17638730
FGFR1OP2;C12orf11;FGFR	NM_015633;NM_018164;NM	cg17643699F	5'UTR;TSS1500;1stExon	cg17643699
RPS6KA2;RPS6KA2	NM_021135;NM_001006932	cg17646418F	Body;Body	cg17646418
		cg17647565F		cg17647565
NXPH4	NM_007224	cg17651972F	3'UTR	cg17651972
		cg17655527F		cg17655527
TRIM27	NM_006510	cg17657594F	TSS1500	cg17657594
XPNPEP3;ST13;ST13	NM_022098;NM_003932;NM	cg17660026F	TSS1500;5'UTR;1stExon	cg17660026
		cg17661717R		cg17661717
TBC1D9B;TBC1D9B	NM_015043;NM_198868	cg17662369F	Body;Body	cg17662369
CHRM1	NM_000738	cg17675492F	5'UTR	cg17675492
TOLLIP	NM_019009	cg17676428R	Body	cg17676428
FABP6;FABP6;FABP6	NM_001130958;NM_001445	cg17676824R	Body;Body;Body	cg17676824
		cg17681079F		cg17681079
		cg17684765R		cg17684765
		cg17685004R		cg17685004
		cg17687367R		cg17687367
KIAA1967;KIAA1967	NM_021174;NM_199205	cg17687970R	TSS200;5'UTR	cg17687970
TRIO	NM_007118	cg17687981F	Body	cg17687981
SAMD1	NM_138352	cg17688733F	TSS1500	cg17688733
		cg17696406F		cg17696406
CDS2	NM_003818	cg17697105R	3'UTR	cg17697105
		cg17698198R		cg17698198
CHMP6	NM_024591	cg17714010R	Body	cg17714010

CASP6;CASP6	NM_001226;NM_032992	cg17714799R	TSS1500;TSS1500	cg17714799
PIGY;PIGY	NM_001042616;NM_032906	cg17714987R	TSS1500;TSS1500	cg17714987
IGSF9;IGSF9;IGSF9;IGSF	NM_020789;NM_001135050	cg17720231F	1stExon;1stExon;5'UTR;	cg17720231
FAM162B	NM_001085480	cg17722656R	TSS1500	cg17722656
		cg17723710F		cg17723710
PBX1	NM_002585	cg17724789R	Body	cg17724789
NRG3;NRG3;NRG3	NM_001165972;NM_001165	cg17727418R	Body;Body;Body	cg17727418
		cg17727597F		cg17727597
TMOD1;TMOD1	NM_003275;NM_001166116	cg17729572F	5'UTR;5'UTR	cg17729572
MYT1L	NM_015025	cg17731243F	Body	cg17731243
SNORD115-15;SNORD11	NR_003307;NR_003313;NR	cg17734983R	Body;Body;Body;TSS20	cg17734983
ADARB2	NM_018702	cg17735539R	Body	cg17735539
KDM4A	NM_014663	cg17737314R	TSS1500	cg17737314
		cg17737621F		cg17737621
ZNF837;ZNF837	NM_138466;NM_001129730	cg17740632R	5'UTR;5'UTR	cg17740632
SETDB2;SETDB2	NM_001160308;NM_031915	cg17741629R	TSS1500;5'UTR	cg17741629
PPM1H	NM_020700	cg17742617R	3'UTR	cg17742617
SDK1;SDK1	NR_027816;NM_152744	cg17744375F	Body;Body	cg17744375
C10orf140	NM_207371	cg17745251F	Body	cg17745251
MOG;MOG;MOG;MOG;MNM	206813;NM_001170418	cg17745803F	Body;Body;Body;Body;	cg17745803
EPB42;EPB42	NM_000119;NM_001114134	cg17746575F	Body;Body	cg17746575
PIM1	NM_002648	cg17746791R	TSS200	cg17746791
EGLN1	NM_022051	cg17748504R	TSS1500	cg17748504
SH3BP2	NM_001122681	cg17749374F	5'UTR	cg17749374
EHD4	NM_139265	cg17750114F	Body	cg17750114
ZFYVE28	NM_020972	cg17754042F	Body	cg17754042
		cg17755495R		cg17755495
GAS2L1;GAS2L1;GAS2L1	NM_006478;NM_152236;NM	cg17758280R	TSS1500;TSS1500;TSS1	cg17758280
SLC12A3;SLC12A3;SLC12	NM_001126107;NM_001126	cg17759354R	TSS1500;TSS1500;TSS1	cg17759354
SELENBP1	NM_003944	cg17759475R	TSS1500	cg17759475
		cg17759816F		cg17759816
ZNF675	NM_138330	cg17761837F	TSS1500	cg17761837
		cg17762420R		cg17762420
MLEC	NM_014730	cg17767319R	TSS1500	cg17767319
		cg17769523F		cg17769523
FAM13A	NM_014883	cg17769793R	Body	cg17769793
		cg17772543F		cg17772543
		cg17775091R		cg17775091
LHPP;LHPP	NM_022126;NM_001167880	cg17778211R	Body;Body	cg17778211
C8orf75	NR_026765	cg17779658F	TSS1500	cg17779658
ACVR1B;ACVR1B	NM_004302;NM_020327	cg17781357F	Body;3'UTR	cg17781357
SH3BP4	NM_014521	cg17783174R	Body	cg17783174
UBE2J2;UBE2J2;UBE2J2;U	NM_194458;NM_194315;NM	cg17784606F	3'UTR;3'UTR;3'UTR;3'U	cg17784606
		cg17786042R		cg17786042
		cg17786496F		cg17786496
CCR5;CCR5	NM_000579;NM_001100168	cg17786516F	TSS1500;TSS1500	cg17786516
FAM118A;FAM118A;FAM	NM_001104595;NM_017911	cg17791035F	5'UTR;1stExon;5'UTR	cg17791035
PIP5K1C	NM_012398	cg17791316F	Body	cg17791316
		cg17795611R		cg17795611
MIR663	NR_030386	cg17796010F	TSS200	cg17796010
		cg17797514R		cg17797514
PYCRL	NM_023078	cg17798048R	3'UTR	cg17798048
		cg17798981F		cg17798981
		cg17799742F		cg17799742

HLA-J;NCRNA00171	NR_024240;NR_026751	cg17801369F cg17802355F cg17807889F	Body;Body	cg17801369 cg17802355 cg17807889
CLRN1;CLRN1;CLRN1OSNM_174878;NM_174878;NRcg17808195F GLCCII	NM_138426	cg17808910F	1stExon;5'UTR;Body Body	cg17808195 cg17808910
FAM172A;FAM172A;FAMNR_028080;NM_032042;NMcg17809345F		cg17811978F cg17812123F	Body;Body;Body;Body	cg17809345 cg17811978 cg17812123
NMNAT2	NM_015039	cg17812839F	TSS1500	cg17812839
IKBKB	NM_001556	cg17813539F cg17813840R cg17815800F	Body	cg17813539 cg17813840 cg17815800
PLOD2;PLOD2	NM_000935;NM_182943	cg17817709F	Body;Body	cg17817709
PRKACA;PRKACA	NM_002730;NM_002730	cg17818798F	5'UTR;1stExon	cg17818798
PABPN1	NM_004643	cg17819538R	TSS200	cg17819538
DPP9	NM_139159	cg17819896R	Body	cg17819896
PVT1	NR_003367	cg17820495R	Body	cg17820495
TMEM184A;MAFK	NM_001097620;NM_002360	cg17822101F	3'UTR;3'UTR	cg17822101
ZNF740;CSAD	NM_001004304;NM_015989	cg17823076R	5'UTR;TSS1500	cg17823076
SH3RF2	NM_152550	cg17823376R	TSS1500	cg17823376
ABLIM2;ABLIM2;ABLIM	NM_032432;NM_001130083	cg17823807F cg17827477F	Body;Body;Body;Body;	cg17823807 cg17827477
SKIV2L2	NM_015360	cg17831554F	Body	cg17831554
DNAJB6;DNAJB6	NM_005494;NM_058246	cg17833937F	5'UTR;5'UTR	cg17833937
FAM197Y2;TSPY4	NR_001553;NM_001164471	cg17834650F cg17834671F	TSS1500;Body	cg17834650 cg17834671
PEBP4	NM_144962	cg17836177R	Body	cg17836177
SLC9A3	NM_004174	cg17836790R cg17837127R cg17837330F cg17837792R cg17838697F	Body	cg17836790 cg17837127 cg17837330 cg17837792 cg17838697
BAIAP2L2;BAIAP2L2	NM_025045;NM_025045	cg17838773R	1stExon;5'UTR	cg17838773
RAB11FIP4	NM_032932	cg17839131R	Body	cg17839131
SLC39A1;SLC39A1;CREBNM_014437;NM_014437;NMcg17841099R		cg17841099R	5'UTR;1stExon;TSS1500	cg17841099
RGS7	NM_002924	cg17841456F	Body	cg17841456
PIP5K1C	NM_012398	cg17845617R	Body	cg17845617
ARSB;ARSB;ARSB	NM_198709;NM_000046;NMcg17845680F	cg17845680F	TSS200;1stExon;5'UTR	cg17845680
EBF1	NM_024007	cg17847344F	Body	cg17847344
SLC12A7	NM_006598	cg17851021R	Body	cg17851021
SYT3;SYT3;SYT3	NM_001160328;NM_032298	cg17854641R	Body;Body;Body	cg17854641
C2orf27A	NM_013310	cg17854650R	5'UTR	cg17854650
RNF138;RNF138	NM_016271;NM_198128	cg17854747R	5'UTR;TSS200	cg17854747
MTNR1A	NM_005958	cg17859326F cg17859578R	Body	cg17859326 cg17859578
FBRSL1	NM_001142641	cg17862947F	Body	cg17862947
IL31RA	NM_139017	cg17868778F	TSS1500	cg17868778
TPST1	NM_003596	cg17871993R	5'UTR	cg17871993
MAEA;MAEA	NM_005882;NM_001017405	cg17879352R	Body;Body	cg17879352
THSD4	NM_024817	cg17882867R cg17883371R cg17885191F	Body	cg17882867 cg17883371 cg17885191
PSMG3;KIAA1908;KIAA1NM_001134340;NR_021487;cg17888979F MAD1L1;MAD1L1;MAD1NM_003550;NM_001013837		cg17893767R	5'UTR;TSS1500;TSS1500 Body;Body;Body	cg17888979 cg17893767

PROKR2	NM_144773	cg17896229R	1stExon	cg17896229
LOXHD1	NM_144612	cg17903316F	Body	cg17903316
		cg17903539F		cg17903539
CHST12	NM_018641	cg17907628F	3'UTR	cg17907628
		cg17908719F		cg17908719
STRA13;LRRC45	NM_144998;NM_144999	cg17910679R	TSS1500;Body	cg17910679
TNK2;TNK2	NM_001010938;NM_005781	cg17913255R	Body;Body	cg17913255
		cg17913570R		cg17913570
PALLD;PALLD	NM_016081;NM_001166108	cg17914107F	Body;Body	cg17914107
RPN1	NM_002950	cg17916418R	Body	cg17916418
		cg17916447R		cg17916447
		cg17917920R		cg17917920
PCDH15;PCDH15;PCDH15	NM_001142768;NM_001142	cg17917922F	Body;Body;Body;Body;	cg17917922
HNRNPL;HNRNPL	NM_001533;NM_001005335	cg17918131R	3'UTR;3'UTR	cg17918131
PCM1	NM_006197	cg17918875F	TSS200	cg17918875
		cg17920076F		cg17920076
		cg17920744R		cg17920744
ACTN1;ACTN1;ACTN1	NM_001130004;NM_001102	cg17925308R	Body;Body;Body	cg17925308
		cg17928883R		cg17928883
FASN	NM_004104	cg17928916R	Body	cg17928916
NOP58	NM_015934	cg17930737F	TSS1500	cg17930737
		cg17931180R		cg17931180
CALN1;CALN1	NM_031468;NM_031468	cg17932934R	5'UTR;1stExon	cg17932934
PSMD8	NM_002812	cg17932974R	TSS1500	cg17932974
TRAF4;NEK8	NM_004295;NM_178170	cg17933764F	TSS1500;3'UTR	cg17933764
		cg17935214F		cg17935214
		cg17936867F		cg17936867
TLR5	NM_003268	cg17938489R	5'UTR	cg17938489
		cg17943922R		cg17943922
KPRP	NM_001025231	cg17947121F	Body	cg17947121
NBPF22P	NR_003719	cg17947156F	Body	cg17947156
DNAJB6	NM_058246	cg17950348F	Body	cg17950348
		cg17951713F		cg17951713
LENG8;LENG8	NM_052925;NM_052925	cg17952111R	1stExon;5'UTR	cg17952111
ZNF324	NM_014347	cg17952549F	Body	cg17952549
		cg17952647F		cg17952647
ACAT2	NM_005891	cg17952826R	TSS1500	cg17952826
C10orf41;C10orf41	NR_024421;NR_024422	cg17953385F	Body;Body	cg17953385
		cg17956819R		cg17956819
RAB10	NM_016131	cg17959183R	Body	cg17959183
CACNA1C;CACNA1C;CANM_001129844;NM_001129	TP73;TP73;TP73;TP73	cg17960347R	Body;Body;Body;Body;B	cg17960347
	NM_001126240;NM_005427	cg17967071R	Body;Body;Body;Body	cg17967071
		cg17968836R		cg17968836
SLC12A7	NM_006598	cg17969789R	Body	cg17969789
SEMA4A	NM_022367	cg17971328R	TSS1500	cg17971328
TRIM29	NM_012101	cg17971587F	1stExon	cg17971587
SLAMF8	NM_020125	cg17972058F	TSS1500	cg17972058
TRIM34;TRIM34;TRIM34	NM_130389;NM_021616;NM	cg17976229R	5'UTR;5'UTR;TSS200;B	cg17976229
RFX1	NM_002918	cg17977474R	3'UTR	cg17977474
SEC63	NM_007214	cg17980570F	Body	cg17980570
NEU4;NEU4;NEU4;NEU4	NM_080741;NM_001167600	cg17981927F	Body;Body;Body;Body;B	cg17981927
JMJD1C	NM_032776	cg17983571R	Body	cg17983571
RIMS3	NM_014747	cg17988326R	3'UTR	cg17988326
CYP24A1;CYP24A1	NM_000782;NM_001128915	cg17997279F	TSS1500;TSS1500	cg17997279

RHPN1	NM_052924	cg18002896R cg18007641F cg18007858R	3'UTR	cg18002896 cg18007641 cg18007858
PON3	NM_000940	cg18007983R cg18008086F cg18009359F	Body	cg18007983 cg18008086 cg18009359
C6orf129	NM_138493	cg18011099F cg18012266F	Body	cg18011099 cg18012266
UFSP1;ACHE;ACHE	NM_001015072;NM_000665	cg18013408R	TSS1500;3'UTR;3'UTR	cg18013408
RASA3	NM_007368	cg18013730R	Body	cg18013730
FOXD4	NM_207305	cg18016181R	1stExon	cg18016181
ABCC4;ABCC4	NM_001105515;NM_005845	cg18016288R	Body;Body	cg18016288
GABRB1;GABRB1	NM_000812;NM_000812	cg18016365R	1stExon;5'UTR	cg18016365
NSD1;NSD1	NM_172349;NM_022455	cg18016826R	TSS200;TSS1500	cg18016826
MRPS25	NM_022497	cg18017531R	Body	cg18017531
NKX2-5;NKX2-5;NKX2-5	NM_001166175;NM_004387	cg18017926R	Body;Body;Body	cg18017926
SBF1	NM_002972	cg18019717R cg18020955F	Body	cg18019717 cg18020955
RASA3	NM_007368	cg18021101F cg18021506F cg18022036F cg18022606F	Body	cg18021101 cg18021506 cg18022036 cg18022606
FUT4	NM_002033	cg18023065R	1stExon	cg18023065
PMEPA1;PMEPA1;PMEP	NM_199171;NM_199170;NM_199169	cg18023251R	5'UTR;5'UTR;Body;Body	cg18023251
MS4A4A	NM_148975	cg18025430F cg18025446R	TSS200	cg18025430 cg18025446
MLL5;MLL5;MLL5;MLL5	NM_018682;NM_182931;NM_182930;NM_182929	cg18029778R cg18030084R cg18030732F cg18032217F	1stExon;5'UTR;1stExon;1stExon	cg18029778 cg18030084 cg18030732 cg18032217
ACAA2	NM_006111	cg18032893R	Body	cg18032893
SIN3B	NM_015260	cg18033235F	3'UTR	cg18033235
ATAD3B	NM_031921	cg18040125R	Body	cg18040125
SRPK2;SRPK2	NM_182691;NM_182692	cg18041893F	Body;Body	cg18041893
IFIT1L	NM_001010987	cg18044543F	3'UTR	cg18044543
EMID1	NM_133455	cg18045461R	TSS200	cg18045461
KIAA1688	NM_025251	cg18048309F	Body	cg18048309
RTN4RL2	NM_178570	cg18048562R cg18048655R	Body	cg18048562 cg18048655
BRSK2	NM_003957	cg18049328F	Body	cg18049328
HEXIM2;HEXIM2	NM_144608;NM_144608	cg18051346R cg18052616F	1stExon;5'UTR	cg18051346 cg18052616
KLHL11	NM_018143	cg18054956F	TSS200	cg18054956
LOC285830;LOC285830	NR_026972;NR_026973	cg18056738F	Body;Body	cg18056738
CTBP2;CTBP2;CTBP2	NM_001329;NM_022802;NM_022801	cg18057959F	Body;Body;Body	cg18057959
SNORD115-15;SNORD115	NR_003307;NR_003313;NR_003312	cg18058682R cg18062128R	Body;Body;TSS1500	cg18058682 cg18062128
MRPL54	NM_172251	cg18067127R	Body	cg18067127
FASTK;TMUB1;TMUB1;FNM	033015;NM_031434;NM_031433;NM_031432	cg18068487R cg18070057R	TSS1500;3'UTR;3'UTR;	cg18068487 cg18070057
PPIAL4F;PPIAL4D	NM_001164262;NM_001164261	cg18072778F	TSS1500;TSS1500	cg18072778
KIAA1549;KIAA1549	NM_001164665;NM_020910	cg18077636R	Body;Body	cg18077636
PHAX	NM_032177	cg18084215R	1stExon	cg18084215
CD3E	NM_000733	cg18085869R	TSS1500	cg18085869

OR4E2	NM_001001912	cg18089047F		cg18089047
EFTUD1;EFTUD1	NM_001040610;NM_024580	cg18091245R	1stExon	cg18091245
RGPD3	NM_001144013	cg18091465R	Body;Body	cg18091465
COL22A1	NM_152888	cg18098774F	TSS200	cg18098774
C5orf49	NM_001089584	cg18100237R	Body	cg18100237
HLA-A	NM_002116	cg18104919F	TSS200	cg18104919
		cg18106971R	Body	cg18106971
		cg18107019F		cg18107019
ARHGEF10	NM_014629	cg18107989F	Body	cg18107989
ARHGEF3	NM_001128615	cg18109369R	Body	cg18109369
ADAM8;ADAM8;ADAM8	NM_001164490;NM_001109	cg18110015F	Body;Body;Body	cg18110015
SYNE2;SYNE2	NM_182914;NM_015180	cg18110741R	Body;Body	cg18110741
		cg18111500F		cg18111500
LOC642006	NR_030766	cg18113596R	TSS200	cg18113596
NSUN6	NM_182543	cg18113637R	Body	cg18113637
		cg18115244R		cg18115244
		cg18117601F		cg18117601
		cg18119085F		cg18119085
GATA4	NM_002052	cg18119192R	Body	cg18119192
CRY1	NM_004075	cg18121829R	Body	cg18121829
CSNK1G3;CSNK1G3;CSNM	NM_001044722;NM_004384	cg18123072F	5'UTR;5'UTR;5'UTR;5'U	cg18123072
DYRK2;DYRK2	NM_003583;NM_006482	cg18125073F	TSS1500;TSS1500	cg18125073
RICS;RICS	NM_014715;NM_001142685	cg18125090F	Body;Body	cg18125090
SCUBE2;SCUBE2	NM_001170690;NM_020974	cg18127410F	TSS200;TSS200	cg18127410
		cg18130622F		cg18130622
TP53I11;TP53I11	NM_006034;NM_001076787	cg18132007F	TSS200;TSS200	cg18132007
RALGAPA1;RALGAPA1	NM_014990;NM_194301	cg18134851R	Body;Body	cg18134851
		cg18135489R		cg18135489
LHPP;LHPP	NM_022126;NM_001167880	cg18135502R	Body;Body	cg18135502
RORA	NM_134261	cg18136062F	Body	cg18136062
		cg18140324R		cg18140324
		cg18143098R		cg18143098
		cg18144404F		cg18144404
EEFSEC	NM_021937	cg18144654R	Body	cg18144654
BEND4;BEND4	NM_207406;NM_001159547	cg18144906F	TSS200;TSS200	cg18144906
		cg18148498F		cg18148498
NCOA1;NCOA1;NCOA1	NM_147223;NM_003743;NM	cg18149011R	TSS1500;TSS1500;TSS1	cg18149011
BMP10	NM_014482	cg18151425F	Body	cg18151425
VDAC3;VDAC3	NM_001135694;NM_005662	cg18152809F	TSS1500;TSS1500	cg18152809
SAT1;SAT1	NR_027783;NM_002970	cg18154784F	Body;3'UTR	cg18154784
PLA2G6;PLA2G6	NM_001004426;NM_003560	cg18155344F	TSS1500;TSS1500	cg18155344
HNF4A;HNF4A;HNF4A	NM_001030003;NM_001030	cg18155883F	Body;Body;Body	cg18155883
		cg18156135R		cg18156135
		cg18158524F		cg18158524
		cg18159802F		cg18159802
		cg18159860F		cg18159860
		cg18162091F		cg18162091
SEMA3B;SEMA3B	NM_001005914;NM_004636	cg18165186R	3'UTR;3'UTR	cg18165186
		cg18165630R		cg18165630
CD200R1;CD200R1;CD200	NM_138940;NM_138806;NM	cg18166915R	TSS1500;TSS1500;TSS1	cg18166915
SHANK2	NM_012309	cg18166990F	Body	cg18166990
GPR176	NM_007223	cg18170934R	Body	cg18170934
		cg18173003F		cg18173003
OCA2	NM_000275	cg18175898R	Body	cg18175898

USP21;USP21	NM_012475;NM_001014443	cg18176482R	TSS1500;TSS1500	cg18176482
BCL11B;BCL11B	NM_022898;NM_138576	cg18181923F cg18183019F	Body;Body	cg18181923 cg18183019
HLA-E	NM_005516	cg18183435R	Body	cg18183435
FBLN2;FBLN2;FBLN2	NM_001165035;NM_001998	cg18183817F	Body;Body;Body	cg18183817
KIAA1217;KIAA1217;KIANM_019590;NM_001098500		cg18184218F cg18186574R	Body;Body;Body	cg18184218 cg18186574
MICA	NM_000247	cg18188079F	Body	cg18188079
LTBP1;LTBP1;LTBP1;LTBNM_000627;NM_206943;NM_000627		cg18188235F	Body;Body;Body;Body;Body	cg18188235
C5orf4	NM_032385	cg18188717R cg18188782R cg18188916R	TSS200	cg18188717 cg18188782 cg18188916
SPATS2L;SPATS2L;SPATNM_001100422;NM_015535		cg18189288R	Body;Body;Body;Body	cg18189288
NGRN;NGRN	NM_001033088;NR_028052	cg18191248R	TSS1500;TSS1500	cg18191248
C2orf27B	NM_214461	cg18193950R	TSS200	cg18193950
SUCLG2	NM_003848	cg18194850F	Body	cg18194850
GIGYF1	NM_022574	cg18195498R	Body	cg18195498
FAT4	NM_024582	cg18202623F	TSS1500	cg18202623
C7orf40;SNORA9	NR_003697;NR_002952	cg18205465R	TSS1500;TSS1500	cg18205465
C7orf27	NM_152743	cg18206768R	Body	cg18206768
EPB49;EPB49;EPB49;EPB	NM_001114135;NM_001114	cg18210562R cg18213043R	5'UTR;5'UTR;5'UTR;5'UTR	cg18210562 cg18213043
ARHGEF2;ARHGEF2;ARHNM_004723;NM_001162383		cg18216292F	Body;Body;Body	cg18216292
TFF3	NM_003226	cg18217706R	Body	cg18217706
PXDNL	NM_144651	cg18218549R	Body	cg18218549
ICOS	NM_012092	cg18219180R	TSS1500	cg18219180
GJA3	NM_021954	cg18221128F	TSS200	cg18221128
MSH6	NM_000179	cg18222961F	TSS1500	cg18222961
PLEKHA5;PLEKHA5	NM_001143821;NM_019012	cg18223446F cg18225412F	Body;Body	cg18223446 cg18225412
HOXB9	NM_024017	cg18228282F	TSS200	cg18228282
ZFP30	NM_014898	cg18231321R	5'UTR	cg18231321
GPR161	NM_153832	cg18232980F	TSS1500	cg18232980
FAM20C	NM_020223	cg18234533F	Body	cg18234533
AVEN;CHRM5	NM_020371;NM_012125	cg18234988F	Body;5'UTR	cg18234988
PRDM8;PRDM8	NM_001099403;NM_020226	cg18235100F	Body;Body	cg18235100
KRTAP2-1	NM_001123387	cg18243846R cg18248184R	TSS1500	cg18243846 cg18248184
IGFL3	NM_207393	cg18249535F	Body	cg18249535
SH3PXD2B	NM_001017995	cg18252964R	3'UTR	cg18252964
SGTA	NM_003021	cg18253787F	Body	cg18253787
HLA-H	NR_001434	cg18255335F	Body	cg18255335
FIGNL2	NM_001013690	cg18259930F cg18260823R	1stExon	cg18259930 cg18260823
BRD9;BRD9;BRD9	NR_027633;NM_023924;NM_001099403	cg18264459R	Body;3'UTR;3'UTR	cg18264459
KIF26B	NM_018012	cg18264526F	Body	cg18264526
FUT8;FUT8;FUT8;FUT8	NM_178156;NM_178154;NM_001099403	cg18266771F	5'UTR;5'UTR;5'UTR;5'UTR	cg18266771
PGAM1	NM_002629	cg18268492R	TSS200	cg18268492
LRRK1;LRRK1	NM_024652;NM_024652	cg18269826F cg18271789R	1stExon;5'UTR	cg18269826 cg18271789
CCDC22	NM_014008	cg18275846F cg18276069R	Body	cg18275846 cg18276069
APOA2	NM_001643	cg18281418F	TSS1500	cg18281418
TINF2;TINF2;TINF2;TINFNM_001099274;NM_012461		cg18284523F	1stExon;5'UTR;1stExon;	cg18284523



CLCNKB;CLCNKB	NM_001165945;NM_000085	cg18284590R	Body;Body	cg18284590
ENTPD6;ENTPD6;ENTPD6	NM_001247;NM_001114089	cg18287962R	5'UTR;5'UTR;1stExon;1stExon	cg18287962
RSPH3	NM_031924	cg18288168R	TSS1500	cg18288168
NAA30;NAA30	NM_001011713;NM_001011	cg18298706R	5'UTR;1stExon	cg18298706
NFIX	NM_002501	cg18299835F	3'UTR	cg18299835
DIP2C	NM_014974	cg18303423F	Body	cg18303423
		cg18305128F		cg18305128
GNLY;GNLY;GNLY;GNLY	NM_012483;NM_012483;NM_012483	cg18310515R	5'UTR;1stExon;1stExon;1stExon	cg18310515
		cg18310593F		cg18310593
CYB5R2	NM_016229	cg18311341F	Body	cg18311341
UTS2D	NM_198152	cg18311854F	5'UTR	cg18311854
SSU72	NM_014188	cg18312113F	Body	cg18312113
SHF	NM_138356	cg18313694R	Body	cg18313694
COL6A2;COL6A2;COL6A2	NM_001849;NM_058174;NM_058174	cg18322321F	5'UTR;5'UTR;5'UTR	cg18322321
		cg18326115F		cg18326115
MDFIC;MDFIC	NM_199072;NM_001166345	cg18326719F	Body;Body	cg18326719
		cg18326825F		cg18326825
CMBL	NM_138809	cg18328428F	5'UTR	cg18328428
		cg18329352F		cg18329352
ADAMTS17	NM_139057	cg18330222R	Body	cg18330222
RDBP	NM_002904	cg18335034F	Body	cg18335034
SIK1	NM_173354	cg18335247F	TSS200	cg18335247
		cg18335670F		cg18335670
SLC25A15	NM_014252	cg18335740R	TSS200	cg18335740
		cg18344212F		cg18344212
MYO18A;MYO18A	NM_078471;NM_203318	cg18344513F	Body;Body	cg18344513
		cg18347762R		cg18347762
		cg18349306R		cg18349306
UBE2N	NM_003348	cg18350524F	Body	cg18350524
ELF2;ELF2	NM_201999;NM_006874	cg18350894R	Body;TSS1500	cg18350894
ZNF845	NM_138374	cg18351099R	TSS1500	cg18351099
PRF1;PRF1	NM_001083116;NM_005041	cg18352710R	TSS1500;TSS1500	cg18352710
SRD5A3	NM_024592	cg18355925F	TSS1500	cg18355925
CARS2	NM_024537	cg18358662F	Body	cg18358662
SF4	NM_172231	cg18361420R	Body	cg18361420
PSMD10;PSMD10	NM_170750;NM_002814	cg18362897R	Body;Body	cg18362897
RBM25	NM_021239	cg18364502F	TSS1500	cg18364502
SOX2OT	NR_004053	cg18366455R	Body	cg18366455
		cg18366782F		cg18366782
C10orf79	NM_025145	cg18367027R	Body	cg18367027
LTV1	NM_032860	cg18368637R	Body	cg18368637
FAM163A	NM_173509	cg18369629R	5'UTR	cg18369629
CLIC6	NM_053277	cg18371700F	TSS200	cg18371700
SNX18;SNX18;SNX18	NM_052870;NM_001145427	cg18373318F	TSS1500;TSS1500;TSS1500	cg18373318
		cg18384614F		cg18384614
FAM55D;FAM55D	NM_017678;NM_001077639	cg18384712F	5'UTR;Body	cg18384712
TNNI2;TNNI2;TNNI2;TNNI2	NM_001145841;NM_001145	cg18386828F	TSS1500;TSS1500;1stExon	cg18386828
		cg18388270F		cg18388270
XKR7	NM_001011718	cg18389807F	Body	cg18389807
KIRREL3	NM_032531	cg18390528R	Body	cg18390528
		cg18393044R		cg18393044
		cg18398596R		cg18398596
TMEM108;TMEM108	NM_001136469;NM_023943	cg18401778R	5'UTR;5'UTR	cg18401778
LOC146880;LOC146880	NR_027487;NR_026899	cg18402166R	TSS1500;TSS200	cg18402166

		cg18402433R		cg18402433
ZIC5	NM_033132	cg18410872F	Body	cg18410872
CYP27B1	NM_000785	cg18413900R	TSS200	cg18413900
EZH2;EZH2	NM_152998;NM_004456	cg18416251R	Body;Body	cg18416251
		cg18416823F		cg18416823
LASS6	NM_203463	cg18418586F	Body	cg18418586
C5orf13;C5orf13;C5orf13;CNM_001142481;NM_001142		cg18420790F	TSS1500;TSS200;Body;	cg18420790
ACACA;ACACA;ACACA	NM_198839;NM_198834;NM_18421160R	cg18421160R	5'UTR;Body;5'UTR	cg18421160
RWDD2A;PGM3	NM_033411;NM_015599	cg18421592F	TSS200;TSS200	cg18421592
MAP7	NM_003980	cg18421949F	Body	cg18421949
TJP1;TJP1	NM_175610;NM_003257	cg18422853R	Body;Body	cg18422853
UNC13A	NM_001080421	cg18423210F	Body	cg18423210
TRIM78P;TRIM5;TRIM5;	NR_002777;NM_033092;NM_18424706R	cg18424706R	Body;3'UTR;3'UTR;3'U	cg18424706
PDE4D;PDE4D;PDE4D	NM_001165899;NM_001104	cg18425032R	Body;Body;Body	cg18425032
ABCC3	NM_003786	cg18426477F	Body	cg18426477
		cg18429584R		cg18429584
S100B	NM_006272	cg18433784R	TSS200	cg18433784
CLIC5;CLIC5	NM_001114086;NM_016929	cg18434367F	Body;Body	cg18434367
FAM47A	NM_203408	cg18435505R	1stExon	cg18435505
FAM47A	NM_203408	cg18436395R	1stExon	cg18436395
ATP6V1C2;ATP6V1C2	NM_144583;NM_001039362	cg18436444F	Body;Body	cg18436444
HP1BP3	NM_016287	cg18436758R	TSS200	cg18436758
LRRC47	NM_020710	cg18436788F	Body	cg18436788
PLOD3;PLOD3;ZNHIT1	NM_001084;NM_001084;NM_18437077R	cg18437077R	1stExon;5'UTR;TSS200	cg18437077
		cg18437209F		cg18437209
LRP5	NM_002335	cg18440777F	Body	cg18440777
LRP1	NM_002332	cg18443392F	Body	cg18443392
		cg18447972F		cg18447972
PLEKHA8;PLEKHA8	NM_032639;NM_032639	cg18449345R	1stExon;5'UTR	cg18449345
C6orf70;TCTE3	NM_018341;NM_174910	cg18452880R	Body;TSS200	cg18452880
		cg18456112F		cg18456112
OCA2	NM_000275	cg18456782F	Body	cg18456782
FAM13B;FAM13B;FAM13B	NM_001101801;NM_016603	cg18458116F	Body;Body;Body	cg18458116
LPAR2	NM_004720	cg18458431F	TSS200	cg18458431
TPD52;TPD52	NM_001025253;NM_005079	cg18459342R	TSS1500;TSS1500	cg18459342
TNXB	NM_019105	cg18460422F	Body	cg18460422
		cg18461093F		cg18461093
FTHL17;FTHL17	NM_031894;NM_031894	cg18461482R	1stExon;5'UTR	cg18461482
SCYL2;DEPDC4	NM_017988;NM_152317	cg18467133R	TSS200;TSS1500	cg18467133
AMICA1;AMICA1	NM_153206;NM_001098526	cg18468235F	Body;Body	cg18468235
SLC22A18AS;SLC22A18;	NM_007105;NM_183233;NM_18471235F	cg18471235F	5'UTR;5'UTR;TSS1500	cg18471235
SYN3	NM_001135774	cg18473686R	5'UTR	cg18473686
RARRES3	NM_004585	cg18474563R	TSS1500	cg18474563
ATM;ATM	NM_000051;NM_138292	cg18474718F	Body;Body	cg18474718
		cg18475273F		cg18475273
BIN1;BIN1;BIN1;BIN1;BI	NM_139348;NM_139347;NM_18477117R	cg18477117R	Body;Body;Body;Body;	cg18477117
OR2Y1	NM_001001657	cg18482656R	TSS1500	cg18482656
BTN1A1	NM_001732	cg18484267R	Body	cg18484267
OPA3;OPA3	NM_001017989;NM_025136	cg18490238F	Body;Body	cg18490238
		cg18492529R		cg18492529
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg18493430R	Body;Body;Body	cg18493430
RHBDF2;RHBDF2	NM_001005498;NM_024599	cg18493449R	Body;Body	cg18493449
		cg18494563F		cg18494563
BRD2;BRD2	NM_005104;NM_005104	cg18494841F	1stExon;5'UTR	cg18494841

RASGRP4;RASGRP4;RASN	NM_001146205;NM_001146	cg18496289R	Body;Body;Body;Body;	cg18496289
TMTC3;CEP290	NM_181783;NM_025114	cg18498537R	TSS1500;5'UTR	cg18498537
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_181552	cg18498598F	Body;Body;Body	cg18498598
CTDSPL;CTDSPL	NM_005808;NM_001008392	cg18499250R	Body;Body	cg18499250
LOC440173	NR_027471	cg18500462F	Body	cg18500462
RHPN2	NM_033103	cg18501264R	TSS200	cg18501264
SCAMP2;SCAMP2	NM_005697;NM_005697	cg18502522R	5'UTR;1stExon	cg18502522
BOD1L	NM_148894	cg18513200R	TSS1500	cg18513200
SCUBE2;SCUBE2	NM_001170690;NM_020974	cg18515585F	TSS200;TSS200	cg18515585
DGKE	NM_003647	cg18516228R	3'UTR	cg18516228
STK32C	NM_173575	cg18518262R	Body	cg18518262
		cg18518916R		cg18518916
		cg18519072R		cg18519072
TREX2	NM_080701	cg18520280R	TSS1500	cg18520280
CNTNAP5	NM_130773	cg18522822F	Body	cg18522822
NEURL3	NR_026875	cg18524934F	Body	cg18524934
GLI2	NM_005270	cg18525316F	Body	cg18525316
PRKAR1B;PRKAR1B;PRKN	NM_001164759;NM_001164	cg18527197F	Body;Body;Body;Body;B	cg18527197
		cg18530113F		cg18530113
SCHIP1	NM_014575	cg18530511F	Body	cg18530511
C17orf98	NM_001080465	cg18530840R	TSS1500	cg18530840
		cg18531401F		cg18531401
FMN1	NM_001103184	cg18531962F	Body	cg18531962
MYO1F	NM_012335	cg18532308R	TSS200	cg18532308
PRX;PRX	NM_181882;NM_020956	cg18536042F	3'UTR;3'UTR	cg18536042
ARPC1B	NM_005720	cg18536843F	5'UTR	cg18536843
		cg18538276R		cg18538276
DSCR8;DSCR8;DSCR8;DSNR	NR_026838;NR_026840;NR_026840	cg18539325R	TSS200;TSS200;TSS200	cg18539325
HOXC8	NM_022658	cg18540674F	3'UTR	cg18540674
		cg18544172F		cg18544172
HCLS1	NM_005335	cg18546037R	Body	cg18546037
		cg18547505F		cg18547505
		cg18547667F		cg18547667
		cg18552425F		cg18552425
B3GNT4	NM_030765	cg18552482R	Body	cg18552482
RPL3;RNU86;RPL3	NM_000967;NR_000026;NM_000967	cg18553840F	Body;TSS200;Body	cg18553840
		cg18559697F		cg18559697
		cg18560442R		cg18560442
NEURL4;NEURL4	NM_032442;NM_001005408	cg18562525F	1stExon;1stExon	cg18562525
EPHB4	NM_004444	cg18563348R	Body	cg18563348
SFMBT1;SFMBT1;SFMBTN	NM_001005158;NM_001005	cg18571112R	Body;Body;Body	cg18571112
		cg18572084R		cg18572084
		cg18573204F		cg18573204
HS6ST3	NM_153456	cg18575730F	Body	cg18575730
RPTOR;RPTOR	NM_001163034;NM_020761	cg18576374F	Body;Body	cg18576374
S1PR4;S1PR4	NM_003775;NM_003775	cg18581405R	3'UTR;1stExon	cg18581405
RPS6KA4;RPS6KA4	NM_001006944;NM_003942	cg18585107R	Body;Body	cg18585107
STON1-GTF2A1L	NM_172311	cg18588281R	Body	cg18588281
		cg18592538R		cg18592538
AMPD3;AMPD3;AMPD3	NM_001025389;NM_001025	cg18593305F	TSS1500;TSS1500;Body	cg18593305
CUL1	NM_003592	cg18597411R	TSS1500	cg18597411
SNORD12B;C20orf199;MINR	NR_003695;NR_003605;NR_003605	cg18598146R	TSS1500;Body;TSS1500	cg18598146
HYAL3;NAT6	NM_003549;NM_012191	cg18599110F	TSS200;TSS1500	cg18599110
ARL8B	NM_018184	cg18599155R	TSS1500	cg18599155

ARL8B	NM_018184	cg18604876R	1stExon	cg18604876
FREM2	NM_207361	cg18605135R	Body	cg18605135
		cg18605729R		cg18605729
		cg18610632F		cg18610632
RIMKLB	NM_020734	cg18613721F	5'UTR	cg18613721
C14orf106	NM_018353	cg18615457R	5'UTR	cg18615457
AHRR	NM_020731	cg18615970R	Body	cg18615970
		cg18616908F		cg18616908
CLASP1;CLASP1;CLASP1	NM_001142273;NM_015282	cg18617219F	Body;Body;Body	cg18617219
		cg18617958F		cg18617958
SETD1B	NM_015048	cg18618936R	Body	cg18618936
PLXNA4	NM_020911	cg18621538R	Body	cg18621538
SDC4	NM_002999	cg18622281F	TSS200	cg18622281
RDBP	NM_002904	cg18626323R	3'UTR	cg18626323
POLRMT	NM_005035	cg18627328R	Body	cg18627328
PTPN6;PTPN6;PTPN6	NM_080549;NM_080548;NM_080547	cg18634479R	TSS200;Body;TSS200	cg18634479
		cg18636509F		cg18636509
KLRK1	NM_007360	cg18637238F	TSS1500	cg18637238
ERC2	NM_015576	cg18637291R	Body	cg18637291
HEATR5B	NM_019024	cg18637383F	Body	cg18637383
		cg18637901F		cg18637901
AKR1C2;AKR1C2	NM_205845;NM_001354	cg18641876F	TSS200;TSS200	cg18641876
RPGRIP1	NM_020366	cg18642567F	TSS1500	cg18642567
BST1;BST1	NM_004334;NM_004334	cg18645906F	1stExon;5'UTR	cg18645906
		cg18649319R		cg18649319
ZNF429	NM_001001415	cg18649979F	TSS200	cg18649979
		cg18651470F		cg18651470
FAM173A	NM_023933	cg18653534F	Body	cg18653534
TBC1D16	NM_019020	cg18658151R	Body	cg18658151
CDS1	NM_001263	cg18659109R	Body	cg18659109
ZNF784	NM_203374	cg18663807F	Body	cg18663807
COLEC11;COLEC11	NM_024027;NM_199235	cg18666930F	Body;Body	cg18666930
		cg18668183R		cg18668183
		cg18668327R		cg18668327
LONP1	NM_004793	cg18668679R	Body	cg18668679
		cg18669135F		cg18669135
		cg18672716R		cg18672716
GFRA1;GFRA1;GFRA1;GFRA1	NM_005264;NM_005264;NM_005264;NM_005264	cg18672939R	1stExon;5'UTR;TSS1500	cg18672939
ENTPD3	NM_001248	cg18675146R	Body	cg18675146
TNFRSF17	NM_001192	cg18676586F	TSS200	cg18676586
CAND2;CAND2	NM_001162499;NM_012298	cg18678851R	Body;Body	cg18678851
HDGF2;HDGF2;HDGF2;HDGF2	NM_001001520;NM_032631	cg18689248F	1stExon;5'UTR;1stExon;	cg18689248
DNAH12	NM_178504	cg18690712R	Body	cg18690712
TNNT2;TNNT2;TNNT2;TNNT2	NM_001001431;NM_001001431	cg18692273R	TSS1500;TSS1500;TSS1500;	cg18692273
		cg18692705F		cg18692705
KIF26A	NM_015656	cg18693479F	Body	cg18693479
TBCD	NM_005993	cg18695427R	Body	cg18695427
		cg18696321F		cg18696321
SS18L1	NM_198935	cg18697163F	Body	cg18697163
		cg18702948R		cg18702948
		cg18705643F		cg18705643
SUV420H2	NM_032701	cg18706434R	Body	cg18706434
		cg18709710R		cg18709710
ITGB4;ITGB4;ITGB4	NM_000213;NM_001005731	cg18709893R	5'UTR;5'UTR;TSS200	cg18709893

ZMYM5;ZMYM5;ZMYM5	NM_001142684;NM_001142	cg18710692F	1stExon;5'UTR;1stExon;	cg18710692
ARPC3	NM_005719	cg18716194R	3'UTR	cg18716194
ZFP41	NM_173832	cg18716831F	3'UTR	cg18716831
C6orf136;C6orf136;C6orf136	NM_001161376;NM_145029	cg18718349F	Body;Body;Body	cg18718349
FLT4;FLT4	NM_002020;NM_182925	cg18719563R	Body;Body	cg18719563
CALCB	NM_000728	cg18720285F	Body	cg18720285
FNDC3B;FNDC3B	NM_022763;NM_001135095	cg18724032F	5'UTR;TSS200	cg18724032
		cg18724521F		cg18724521
HIP1	NM_005338	cg18724912F	Body	cg18724912
MAML3	NM_018717	cg18726079F	Body	cg18726079
		cg18729383F		cg18729383
DNAH17	NM_173628	cg18733967F	Body	cg18733967
		cg18734472R		cg18734472
IFT88;IFT88	NM_175605;NM_006531	cg18735146R	TSS1500;TSS1500	cg18735146
LSG1	NM_018385	cg18735798F	1stExon	cg18735798
		cg18738114F		cg18738114
DNAJC18	NM_152686	cg18739392F	Body	cg18739392
		cg18740800R		cg18740800
REXO1	NM_020695	cg18745841R	Body	cg18745841
		cg18746157R		cg18746157
GTF2H4	NM_001517	cg18746504R	TSS1500	cg18746504
DACT3	NM_145056	cg18752412F	Body	cg18752412
RNF24;RNF24;RNF24	NM_001134337;NM_007219	cg18752785F	TSS200;TSS1500;TSS200	cg18752785
		cg18753646R		cg18753646
KDM6A	NM_021140	cg18754842R	3'UTR	cg18754842
FFAR2	NM_005306	cg18755094R	TSS200	cg18755094
DUSP5	NM_004419	cg18756771R	Body	cg18756771
ECHDC2	NM_018281	cg18761118R	TSS1500	cg18761118
		cg18761221F		cg18761221
JOSD1	NM_014876	cg18767321R	TSS200	cg18767321
BHLHE40	NM_003670	cg18768347R	Body	cg18768347
MTMR11;MTMR11	NM_181873;NM_001145862	cg18770149F	Body;Body	cg18770149
		cg18771538R		cg18771538
KLHL6	NM_130446	cg18772205F	Body	cg18772205
SPEM1;NLGN2	NM_199339;NM_020795	cg18772531F	TSS1500;3'UTR	cg18772531
NFATC1;NFATC1;NFATC1	NM_006162;NM_172388;NM_172388	cg18773522F	Body;5'UTR;Body;Body	cg18773522
PPP4R2	NM_174907	cg18777311F	Body	cg18777311
RPTOR;RPTOR	NM_001163034;NM_020761	cg18780100R	Body;Body	cg18780100
		cg18780627F		cg18780627
SNX9	NM_016224	cg18782564F	3'UTR	cg18782564
		cg18782651R		cg18782651
		cg18782774R		cg18782774
SEC22B	NM_004892	cg18788524F	1stExon	cg18788524
		cg18790856R		cg18790856
TPBG;TPBG	NM_006670;NM_001166392	cg18792904F	Body;Body	cg18792904
		cg18793886F		cg18793886
		cg18795959R		cg18795959
FAM162A	NM_014367	cg18797132F	3'UTR	cg18797132
TSNARE1	NM_145003	cg18798669F	5'UTR	cg18798669
PIK3C2G	NM_004570	cg18802268R	Body	cg18802268
RAB32	NM_006834	cg18802818F	3'UTR	cg18802818
EFCAB7;DLEU2L	NM_032437;NR_002771	cg18803079F	Body;TSS200	cg18803079
PRKCZ;PRKCZ;PRKCZ	NM_001033582;NM_002744	cg18803110F	5'UTR;Body;5'UTR	cg18803110
		cg18805486F		cg18805486

DNMBP	NM_015221	cg18805518R cg18806660F cg18807449R cg18809706F cg18810681F	5'UTR	cg18805518 cg18806660 cg18807449 cg18809706 cg18810681
RYR1;RYR1	NM_000540;NM_001042723	cg18813650F	Body;Body	cg18813650
SESTD1	NM_178123	cg18814227F	Body	cg18814227
SOBP	NM_018013	cg18817459F	3'UTR	cg18817459
BAT1;BAT1;SNORD84;B	NM_004640;NM_004640;NR	cg18821320R	1stExon;5'UTR;TSS1500	cg18821320
SORBS2;SORBS2;SORBS	NM_003603;NM_001145673	cg18824724F	5'UTR;TSS1500;5'UTR;5'	cg18824724
GJD4	NM_153368	cg18826070F	3'UTR	cg18826070
PCGF2	NM_007144	cg18826743R	5'UTR	cg18826743
GPR109B	NM_006018	cg18830042F	1stExon	cg18830042
LOC285696	NR_027253	cg18831260R cg18833896F	Body	cg18831260 cg18833896
EIF4EBP1	NM_004095	cg18834416F	1stExon	cg18834416
FUT4	NM_002033	cg18834652F	TSS1500	cg18834652
GLI2	NM_005270	cg18835090F cg18836287R cg18836618F	Body	cg18835090 cg18836287 cg18836618
RAD51L1;RAD51L1;RAD	NM_133509;NM_002877;NM	cg18842157F	Body;Body;Body	cg18842157
RBM44	NM_001080504	cg18844589R	TSS1500	cg18844589
NCKIPSD;NCKIPSD	NM_016453;NM_184231	cg18849300R	Body;Body	cg18849300
CD27;LOC678655	NM_001242;NR_015382	cg18849517F	TSS1500;Body	cg18849517
PCDH12	NM_016580	cg18849725R	TSS200	cg18849725
DHRS12;DHRS12	NM_001031719;NM_024705	cg18852038F	Body;Body	cg18852038
DRD3;DRD3;DRD3;DRD3	NM_033663;NM_000796;NM	cg18852618R cg18852817F	1stExon;5'UTR;1stExon;	cg18852618 cg18852817
ARHGAP15;ARHGAP15	NM_018460;NM_018460	cg18855030R	1stExon;5'UTR	cg18855030
CROCCL1	NR_026752	cg18855356R	TSS200	cg18855356
SLC44A4	NM_025257	cg18856043R	Body	cg18856043
C2orf49	NM_024093	cg18856091R	Body	cg18856091
ACTR5	NM_024855	cg18857314F	Body	cg18857314
KCNK1	NM_002245	cg18859459F	Body	cg18859459
ANO7;ANO7	NM_001001666;NM_001001	cg18861762F cg18865112F	TSS200;TSS200	cg18861762 cg18865112
DEFB125	NM_153325	cg18865733R	TSS1500	cg18865733
TMEM205;CCDC159;TMEN	NM_198536;NM_001080503	cg18865796F	TSS1500;1stExon;TSS1500	cg18865796
ATP9A	NM_006045	cg18867627F	Body	cg18867627
GUSBL1	NR_003504	cg18867708R	Body	cg18867708
SPTBN1	NM_003128	cg18868922R	5'UTR	cg18868922
TCF7L1	NM_031283	cg18869840R cg18871179R	Body	cg18869840 cg18871179
PSMD8	NM_002812	cg18872426F cg18873792F	3'UTR	cg18872426 cg18873792
A4GALT	NM_017436	cg18877862F cg18880461R	TSS200	cg18877862 cg18880461
SCP2;SCP2	NM_001007098;NM_002979	cg18880500R	TSS1500;TSS1500	cg18880500
PRKAG2;PRKAG2	NM_001040633;NM_016203	cg18880543F	5'UTR;Body	cg18880543
KLHL32	NM_052904	cg18880646F	5'UTR	cg18880646
PLA2G2D	NM_012400	cg18881992R	TSS1500	cg18881992
LEMD3;LEMD3	NM_014319;NM_001167614	cg18884271F	3'UTR;3'UTR	cg18884271
PKHD1;PKHD1	NM_138694;NM_170724	cg18885346R	TSS1500;TSS1500	cg18885346
MFSD2A;MFSD2A;MFSD	NM_032793;NM_032793;NM	cg18885365R	5'UTR;1stExon;1stExon;	cg18885365

ATP9B	NM_198531	cg18886814R cg18887371F	Body	cg18886814 cg18887371
RGS20	NM_170587	cg18891852F cg18893596F	TSS1500	cg18891852 cg18893596
LRRC26	NM_001013653	cg18894938R cg18896156F	Body	cg18894938 cg18896156
SALL4	NM_020436	cg18900591F	TSS200	cg18900591
RANBP6;RANBP6;RANBP6	NR_024094;NR_024095;NM_024096	cg18906795R	Body;Body;1stExon	cg18906795
NCOR2;NCOR2	NM_006312;NM_001077261	cg18906815R	5'UTR;5'UTR	cg18906815
NCRNA00174	NR_026873	cg18912574R	Body	cg18912574
COL24A1	NM_152890	cg18917270R	Body	cg18917270
TUBGCP2	NM_006659	cg18918047R	Body	cg18918047
CTNNA3;CTNNA3	NM_001127384;NM_013266	cg18918365R	Body;Body	cg18918365
NBEAL1	NM_001114132	cg18919622R cg18925601F	Body	cg18919622 cg18925601
FRAS1;FRAS1	NM_025074;NM_001166133	cg18929663F	Body;Body	cg18929663
KIAA1211	NM_020722	cg18930905R	Body	cg18930905
TMCC2	NM_014858	cg18930928R	Body	cg18930928
PDGFC	NM_016205	cg18933943F	Body	cg18933943
SSX9	NM_174962	cg18934490F cg18938392R	Body	cg18934490 cg18938392
PPP1R2P1	NR_027771	cg18942934F	Body	cg18942934
WDR33;WDR33;WDR33	NM_018383;NM_001006622	cg18942985R	Body;Body;Body	cg18942985
SMOC2;SMOC2	NM_022138;NM_001166412	cg18943033R	Body;Body	cg18943033
GPR158	NM_020752	cg18944702F	Body	cg18944702
STK17B	NM_004226	cg18949409R cg18951256R	TSS200	cg18949409 cg18951256
TXLNB;TXLNB	NM_153235;NM_153235	cg18953104F	5'UTR;1stExon	cg18953104
PRDM8;PRDM8	NM_020226;NM_001099403	cg18954401R	3'UTR;3'UTR	cg18954401
ELK3	NM_005230	cg18954900R	5'UTR	cg18954900
STK24	NM_001032296	cg18957721F	Body	cg18957721
CLYBL	NM_206808	cg18958126R	3'UTR	cg18958126
RNF157	NM_052916	cg18961773F cg18967788F cg18969162R	Body	cg18961773 cg18967788 cg18969162
TMEM79;SMG5	NR_026678;NM_015327	cg18973101R	TSS1500;Body	cg18973101
ATRNL1	NM_207303	cg18974117R	Body	cg18974117
ARRB1;ARRB1	NM_004041;NM_020251	cg18975055F cg18975130R	3'UTR;3'UTR	cg18975055 cg18975130
ICMT	NM_012405	cg18975791R	3'UTR	cg18975791
SOS2	NM_006939	cg18976542F cg18976797R cg18978643F cg18986335R cg18987659F	Body	cg18976542 cg18976797 cg18978643 cg18986335 cg18987659
VGLL4	NM_014667	cg18987833R	5'UTR	cg18987833
CCDC122;C13orf31;C13orf31	NM_144974;NM_001128303	cg18992706F	5'UTR;TSS200;TSS1500	cg18992706
LOC647946	NR_024391	cg18993481F cg18999390F cg18999535F cg19001522F	TSS1500	cg18993481 cg18999390 cg18999535 cg19001522
PTRF	NM_012232	cg19003733R cg19005446F cg19005620R	TSS200	cg19003733 cg19005446 cg19005620

PHLDB1;PHLDB1;PHLDBNM_001144758;NM_015157	cg19006130R	TSS200;5'UTR;TSS200	cg19006130
C19orf22	NM_138774	TSS1500	cg19011710F
KIAA1324L;KIAA1324L	NM_001142749;NM_001142	1stExon;5'UTR	cg19012731F
RESP18	NM_001007089	TSS1500	cg19020434F
LOC650368	NR_024248	Body	cg19022179F
PLOD1	NM_000302	3'UTR	cg19022839F
ZNF493;ZNF493	NM_001076678;NM_175910	3'UTR;3'UTR	cg19023258R cg19025524R
KCNMA1;KCNMA1;KCNMA1	NM_001161353;NM_001161	Body;Body;Body;Body	cg19027255R
GNG7	NM_052847	5'UTR	cg19032532R
ADRA2A;ADRA2A	NM_000681;NM_000681	3'UTR;1stExon	cg19032597F
ACOX3;ACOX3	NM_001101667;NM_003501	Body;Body	cg19034890R
ZNF773	NM_198542	TSS1500	cg19034995R cg19035792F
MED31;C17orf100;MED31	NM_016060;NM_001105520	5'UTR;TSS200;1stExon	cg19036644R
SYNPO;SYNPO	NM_001166208;NM_001166	5'UTR;TSS1500	cg19038397F
MCM6	NM_005915	TSS1500	cg19039313F
KCNMA1;KCNMA1;KCNMA1	NM_001161353;NM_001161	Body;Body;Body;Body	cg19039583F
ESPNL	NM_194312	Body	cg19045731R
FAM187B	NM_152481	Body	cg19045762R cg19049437F
CELSR1	NM_014246	Body	cg19054219R
C2orf55	NM_207362	5'UTR	cg19055178F cg19066691F
MAN2A1	NM_002372	Body	cg19071398R
NMI	NM_004688	TSS1500	cg19071452F cg19074474F
DNAJB12;DNAJB12	NM_001002762;NM_017626	TSS1500;TSS1500	cg19074709F cg19080925R
C1orf198;C1orf198	NM_001136494;NM_032800	5'UTR;TSS200	cg19085699F
C1orf210;C1orf210	NM_001164829;NM_182517	TSS1500;TSS1500	cg19086488R
FAM83D	NM_030919	1stExon	cg19091447F
ASAM	NM_024769	TSS1500	cg19096475R
CD36	NM_001001547	TSS1500	cg19096849F
LRRN4	NM_152611	TSS1500	cg19097280R
ATG12;AP3S1;ATG12	NM_004707;NM_001284;NM_001284	1stExon;TSS200;5'UTR	cg19097648R
MIR30A	NR_029504	Body	cg19098437R
HNRNPA0	NM_006805	TSS1500	cg19101232F
C1orf203;ATP1A1;ATP1A1	NR_027646;NM_001160233;	Body;Body;Body;Body	cg19102404F
CYB5D2;ZZEF1;ZZEF1;C	NR_023346;NM_015113;NM_015113	TSS1500;5'UTR;1stExon	cg19105961F
IPO11;IPO11;LRRC70	NM_016338;NM_001134779	Body;Body;Body	cg19107973R
WFDC11	NM_147197	3'UTR	cg19111238R
ZNF22;C10orf25	NM_006963;NM_001039380	5'UTR;TSS1500	cg19114820R cg19115692F
NRP1;NRP1;NRP1	NM_001024628;NM_003873	Body;Body;Body	cg19131541R
GLT1D1	NM_144669	Body	cg19138325R
FBXL4	NM_012160	5'UTR	cg19140262F
GCLC	NM_001498	Body	cg19144949F
PANK1;PANK1;PANK1	NM_148977;NM_138316;NM_138316	Body;Body;Body	cg19147534F
CDK1;CDC2;CDK1;CDK1	NM_001170406;NM_001130	TSS1500;TSS1500;TSS1500	cg19147990R cg19148060R cg19153883R cg19159695F
PADI4	NM_012387	TSS1500	cg19159961F



SEMA7A;SEMA7A;SEMANM_001146029;NM_003612	cg19160053R	3'UTR;3'UTR;3'UTR	cg19160053
CACNG4	NM_014405	TSS1500	cg19163194R
AP1B1;AP1B1;AP1B1	NM_001127;NM_145730;NM_001127	TSS1500;TSS1500;TSS1500	cg19165344F
COL11A2;COL11A2;COL11A2	NM_080679;NM_080681;NM_080679	Body;Body;Body	cg19167854R
			cg19171792F
TBX21	NM_013351	TSS200	cg19172222R
OR2B2	NM_033057	TSS200	cg19173375R
HEXDC;C17orf101;C17orf101	NM_173620;NM_024648;NM_173620	Body;TSS1500;TSS1500	cg19179572R
			cg19180156R
ANO2	NM_020373	Body	cg19180555F
FAM160A1	NM_001109977	5'UTR	cg19183248R
			cg19183733R
GGA3;GGA3	NM_014001;NM_138619	Body;Body	cg19184818R
SOX18	NM_018419	TSS1500	cg19187682R
			cg19188370R
SMOC2;SMOC2	NM_022138;NM_001166412	Body;Body	cg19190211R
CCDC134	NM_024821	TSS200	cg19191357R
GPR44	NM_004778	5'UTR	cg19192256R
AHNAK	NM_024060	Body	cg19192377F
FAM59A	NM_022751	TSS1500	cg19193201F
NOV	NM_002514	Body	cg19197744F
ALKBH2;ALKBH2;ALKBH2	NM_001145374;NR_026930;NR_026930	Body;Body;Body;Body;Body	cg19198919R
CLYBL	NM_206808	Body	cg19200953F
ZBTB22;ZBTB22	NM_001145338;NM_005453	5'UTR;5'UTR	cg19205064R
CAPS;CAPS	NM_080590;NM_004058	TSS1500;TSS1500	cg19211619R
CUX1;CUX1;CUX1	NM_181500;NM_181552;NM_181500	Body;Body;Body	cg19213194R
			cg19214097F
TSHZ1;ZADH2	NM_005786;NM_175907	TSS1500;TSS200	cg19215386R
			cg19216204R
C11orf70	NM_032930	TSS1500	cg19217820F
MGAT4C	NM_013244	5'UTR	cg19218492R
BRD4	NM_058243	Body	cg19219435F
			cg19221620F
			cg19230715R
TNNT2;TNNT2;TNNT2;TNNT2	NM_000364;NM_001001430	TSS200;TSS200;TSS200	cg19233001R
			cg19241670R
TCEA2;TCEA2	NM_198723;NM_198723	1stExon;5'UTR	cg19242268R
FCGR2C	NM_201563	3'UTR	cg19242610R
SIAE;SPA17	NM_170601;NM_017425	1stExon;TSS200	cg19243130F
PRDM16;PRDM16	NM_022114;NM_199454	Body;Body	cg19243842R
			cg19246873F
TFF1	NM_003225	TSS200	cg19247032F
DUS1L	NM_022156	Body	cg19248659R
CYGB	NM_134268	TSS200	cg19249708R
DCP1B	NM_152640	Body	cg19251738F
			cg19257464F
TEAD4;TEAD4;TEAD4	NM_201441;NM_201443;NM_201441	5'UTR;5'UTR;5'UTR	cg19263974F
TNRC18	NM_001080495	Body	cg19265600R
OR6C2	NM_054105	TSS1500	cg19265886F
HNRNPF;HNRNPF;HNRNPF	NM_001098206;NM_001098	TSS1500;5'UTR;TSS200	cg19268579F
PRR3;GNL1;PRR3;GNL1	NM_001077497;NM_005275	TSS200;5'UTR;TSS200;	cg19269956R
ZIC2	NM_007129	Body	cg19272984F
GPR1;GPR1	NM_005279;NM_001098199	5'UTR;5'UTR	cg19273883R
			cg19274680R

CDC42EP3	NM_006449	cg19275008R	5'UTR	cg19275008
RUFY2;RUFY2;RUFY2	NM_017987;NM_001042417	cg19275779F	TSS200;1stExon;5'UTR	cg19275779
HTT	NM_002111	cg19280196R	Body	cg19280196
		cg19282952F		cg19282952
RAP2A	NM_021033	cg19283298R	Body	cg19283298
		cg19285800R		cg19285800
HDAC4	NM_006037	cg19286774F	Body	cg19286774
SPAM1;SPAM1	NM_153189;NM_003117	cg19292712F	TSS1500;TSS1500	cg19292712
ST20	NM_001100880	cg19294816F	5'UTR	cg19294816
		cg19299265R		cg19299265
SYNGAP1;ZBTB9	NM_006772;NM_152735	cg19301742R	3'UTR;TSS1500	cg19301742
AGAP1;AGAP1	NM_014914;NM_001037131	cg19303162F	Body;Body	cg19303162
HTRA3	NM_053044	cg19303305F	Body	cg19303305
MTMR3;MTMR3;MTMR3	NM_153050;NM_021090;NM_021090	cg19304507R	TSS200;TSS200;TSS200	cg19304507
		cg19304800R		cg19304800
WDR8	NM_017818	cg19305545F	Body	cg19305545
CYP26C1	NM_183374	cg19305681R	Body	cg19305681
		cg19306866F		cg19306866
CHD5	NM_015557	cg19308227R	Body	cg19308227
		cg19309499R		cg19309499
		cg19318364R		cg19318364
TMEM50B	NM_006134	cg19318450R	TSS200	cg19318450
TRIM26	NM_003449	cg19321263F	Body	cg19321263
FMN1	NM_001103184	cg19326179F	Body	cg19326179
GNA13	NM_006572	cg19328649R	TSS1500	cg19328649
ACTA2;ACTA2	NM_001613;NM_001141945	cg19335412F	3'UTR;3'UTR	cg19335412
LOC389705	NR_003920	cg19338056F	TSS1500	cg19338056
HIPK3;HIPK3	NM_001048200;NM_005734	cg19338197F	Body;Body	cg19338197
NR2E1	NM_003269	cg19340889R	Body	cg19340889
MAMSTR	NM_001130915	cg19343034R	TSS1500	cg19343034
PITPNM2	NM_020845	cg19343861R	Body	cg19343861
		cg19344545R		cg19344545
SLC29A2	NM_001532	cg19347288R	Body	cg19347288
LCOR;LCOR;LCOR	NM_001170766;NM_001170	cg19350375F	5'UTR;5'UTR;5'UTR	cg19350375
		cg19351026F		cg19351026
NKX6-2	NM_177400	cg19355087F	TSS1500	cg19355087
EMX2;EMX2OS;EMX2	NM_001165924;NR_002791;	cg19358493R	TSS1500;Body;TSS1500	cg19358493
		cg19358608R		cg19358608
SEMA3C	NM_006379	cg19361615F	3'UTR	cg19361615
		cg19363785F		cg19363785
KRT86	NM_002284	cg19365166R	TSS200	cg19365166
		cg19366770R		cg19366770
C6orf123	NR_026773	cg19368103R	Body	cg19368103
		cg19368844F		cg19368844
RCC2;RCC2	NM_001136204;NM_018715	cg19371097R	3'UTR;3'UTR	cg19371097
POLE	NM_006231	cg19374476R	Body	cg19374476
		cg19375114R		cg19375114
		cg19375587F		cg19375587
MUPCDH;MUPCDH	NM_021924;NM_031264	cg19376842R	Body;Body	cg19376842
C22orf28	NM_014306	cg19380675R	TSS1500	cg19380675
GRB10;GRB10;GRB10	NM_001001555;NM_005311	cg19381814F	5'UTR;TSS1500;TSS1500	cg19381814
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg19383680F	Body;Body;Body	cg19383680
		cg19384448R		cg19384448
MMP17	NM_016155	cg19385321F	Body	cg19385321

NPC1	NM_000271	cg19385725F cg19385933F	Body	cg19385725 cg19385933
C2CD2;C2CD2	NM_015500;NM_199050	cg19390317F	Body;TSS1500	cg19390317
SNX29	NM_001080530	cg19390357R	Body	cg19390357
ADPRHL1;ADPRHL1	NM_199162;NM_138430	cg19397969F	Body;Body	cg19397969
DZIP3	NM_014648	cg19400179R	5'UTR	cg19400179
DNAJC10	NM_018981	cg19403339R	TSS200	cg19403339
PLEC1;PLEC1;PLEC1;PLENM_201378;NM_201384;NM_19405177R		cg19405177R	Body;Body;Body;Body;Body	cg19405177
COPS2;COPS2	NM_001143887;NM_004236	cg19405329F	Body;Body	cg19405329
ZNF444	NM_018337	cg19405624R	3'UTR	cg19405624
RAI14;RAI14;RAI14;RAI1	NM_001145523;NM_001145	cg19405883F	TSS200;Body;5'UTR;Bo	cg19405883
SRCIN1	NM_025248	cg19409060F	Body	cg19409060
ANKRD50;ANKRD50	NM_020337;NM_001167882	cg19409172F	5'UTR;5'UTR	cg19409172
LOC646762	NR_024278	cg19413766R	Body	cg19413766
RREB1;RREB1;RREB1;RRNM_001003699;NM_001003		cg19415767R	TSS200;TSS200;5'UTR;	cg19415767
FRAS1;FRAS1	NM_025074;NM_001166133	cg19418525R	Body;Body	cg19418525
C10orf105;CDH23	NM_001168390;NM_022124	cg19429405F cg19434183R cg19435453F	TSS200;Body	cg19429405 cg19434183 cg19435453
LRRC8E	NM_025061	cg19435526F	3'UTR	cg19435526
KIAA0664	NM_015229	cg19435859F cg19438005R cg19440115F	3'UTR	cg19435859 cg19438005 cg19440115
C5orf36	NM_001145678	cg19440553R cg19442138R	3'UTR	cg19440553 cg19442138
TRMU	NM_018006	cg19443189F cg19445097F	TSS200	cg19443189 cg19445097
CGB8	NM_033183	cg19446264F	TSS1500	cg19446264
RB1	NM_000321	cg19447496F cg19447593R	Body	cg19447496 cg19447593
CALD1;CALD1;CALD1	NM_033157;NM_004342;NM_19450840R		5'UTR;5'UTR;5'UTR	cg19450840
DDIT3	NM_004083	cg19452060R	TSS1500	cg19452060
HCRT	NM_001524	cg19455142R cg19460909F	3'UTR	cg19455142 cg19460909
PDE6A	NM_000440	cg19460950F	Body	cg19460950
ISL2	NM_145805	cg19464917F cg19465002R cg19465737R	TSS1500	cg19464917 cg19465002 cg19465737
ISLR2;ISLR2;ISLR2;ISLR	NM_001130136;NM_001130	cg19470379R	5'UTR;5'UTR;5'UTR;5'U	cg19470379
ACAP2	NM_012287	cg19472302R	Body	cg19472302
ULK4	NM_017886	cg19473056F cg19475020F	5'UTR	cg19473056 cg19475020
FAM20C	NM_020223	cg19476741R	Body	cg19476741
CCDC42B	NM_001144872	cg19477192F	Body	cg19477192
TSR1;SNORD91B	NM_018128;NR_003073	cg19477926F cg19480385F	Body;TSS1500	cg19477926 cg19480385
PLP1;PLP1;PLP1	NM_000533;NM_199478;NM_19481052R		Body;Body;Body	cg19481052
HRNBP3	NM_001082575	cg19481531F	Body	cg19481531
GALNT9	NM_001122636	cg19483465F	Body	cg19483465
MSL3L2	NM_001166217	cg19484299R	Body	cg19484299
LILRA2;LILRA2	NM_001130917;NM_006866	cg19486673F	TSS1500;TSS1500	cg19486673
CTTN;CTTN	NM_138565;NM_005231	cg19487717R	Body;Body	cg19487717
ARHGAP12	NM_018287	cg19491415R	TSS200	cg19491415
NCAPD3	NM_015261	cg19493323F	Body	cg19493323

EPHB1	NM_004441	cg19497424F cg19497640F cg19497735F cg19499614R cg19500766R	Body	cg19497424 cg19497640 cg19497735 cg19499614 cg19500766
ZNF90	NM_007138	cg19505032F cg19507893R cg19508555R	TSS1500	cg19505032 cg19507893 cg19508555
IL27RA	NM_004843	cg19510472R	TSS200	cg19510472
SDCBP2	NM_080489	cg19510699F cg19511444F cg19513071R	Body	cg19510699 cg19511444 cg19513071
ZNF311	NM_001010877	cg19513374R	Body	cg19513374
IMMP2L	NM_032549	cg19513514F cg19515468R	Body	cg19513514 cg19515468
NPR1	NM_000906	cg19518186R	Body	cg19518186
NPHS1	NM_004646	cg19519626R	TSS1500	cg19519626
TP73;TP73;TP73;TP73	NM_001126240;NM_005427	cg19519630F cg19527157R	Body;Body;Body;Body	cg19519630 cg19527157
HPCAL1;HPCAL1	NM_134421;NM_002149	cg19529823F cg19534005F	TSS1500;TSS200	cg19529823 cg19534005
TESSP1	NM_001135086	cg19534703F	Body	cg19534703
ZSWIM2;ZSWIM2	NM_182521;NM_182521	cg19535896R cg19540430F	1stExon;5'UTR	cg19535896 cg19540430
MSX2	NM_002449	cg19541479R	Body	cg19541479
DMWD	NM_004943	cg19541688F	Body	cg19541688
TOMM34	NM_006809	cg19543453F	TSS200	cg19543453
CAV3;CAV3	NM_001234;NM_033337	cg19544510R cg19549171R	Body;Body	cg19544510 cg19549171
MRS2P2;TBC1D15;TBC1	NR_024072;NM_022771;NM	cg19549232R	TSS1500;Body;Body;5'UTR	cg19549232
ADAMTS6	NM_197941	cg19550439R	Body	cg19550439
UCKL1	NM_017859	cg19551589R	Body	cg19551589
GPSM3	NM_022107	cg19555708F	Body	cg19555708
ASPG	NM_001080464	cg19555988F	Body	cg19555988
SNORD115-1	NR_001291	cg19556901F	TSS1500	cg19556901
ITPK1;ITPK1;ITPK1	NM_001142593;NM_014216	cg19558860F	TSS1500;TSS1500;TSS1500	cg19558860
THADA;THADA	NM_022065;NM_001083953	cg19563307F	Body;Body	cg19563307
BANK1;BANK1;BANK1	NM_001127507;NM_001083	cg19564112F cg19565241R	3'UTR;3'UTR;3'UTR	cg19564112 cg19565241
TGM5;TGM5	NM_004245;NM_201631	cg19565920R cg19566906F cg19567735F	TSS1500;TSS1500	cg19565920 cg19566906 cg19567735
AURKC;AURKC;AURKC	NM_003160;NM_001015878	cg19568003F cg19568722R	TSS200;TSS1500;TSS200	cg19568003 cg19568722
MEX3D	NM_203304	cg19569686R	3'UTR	cg19569686
CNN2;CNN2	NM_004368;NM_201277	cg19571293F	Body;Body	cg19571293
LOC100240735;FLJ12825	NR_026658;NR_026655	cg19573198F	TSS1500;Body	cg19573198
FUK	NM_145059	cg19574101F cg19574193R	5'UTR	cg19574101 cg19574193
SMAD7;SMAD7	NM_005904;NM_005904	cg19575813R	1stExon;5'UTR	cg19575813
ARMC9	NM_025139	cg19577697R	Body	cg19577697
UBE2L6;UBE2L6	NM_004223;NM_198183	cg19579446F	TSS1500;TSS200	cg19579446
MTG1	NM_138384	cg19582069F cg19582297F	Body	cg19582069 cg19582297

C19orf28;C19orf28;C19orf28	NM_001042680;NM_021731	cg19584038F	Body;Body;Body	cg19584038
TLL10;TLL10	NM_153254;NM_001130045	cg19584957F	TSS1500;5'UTR	cg19584957
HLA-A	NM_002116	cg19585676R	3'UTR	cg19585676
		cg19586661R		cg19586661
		cg19586702F		cg19586702
LOC647979	NR_027451	cg19587779R	Body	cg19587779
PLEC1;PLEC1;PLEC1;PLEN	NM_201381;NM_201379;NM	cg19587828F	3'UTR;3'UTR;3'UTR;3'UTR	cg19587828
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM	cg19590115R	Body;Body;Body	cg19590115
DEFB114	NM_001037499	cg19592003R	Body	cg19592003
RASL12	NM_016563	cg19592235F	TSS200	cg19592235
SORCS2	NM_020777	cg19593680R	Body	cg19593680
CPT1A;CPT1A	NM_001031847;NM_001876	cg19596755F	TSS1500;TSS1500	cg19596755
CXCR5	NM_001716	cg19599951R	TSS1500	cg19599951
CDC73	NM_024529	cg19600670F	TSS1500	cg19600670
MAP3K14	NM_003954	cg19601328R	5'UTR	cg19601328
ABHD14B;ABHD14B;AB	NR_027476;NM_032750;NM	cg19602773R	Body;5'UTR;TSS1500;5'	cg19602773
SCHIP1	NM_014575	cg19605623R	Body	cg19605623
MYO1E	NM_004998	cg19613592R	Body	cg19613592
		cg19617741R		cg19617741
PTPRU;PTPRU;PTPRU	NM_133177;NM_133178;NM	cg19619064R	TSS1500;TSS1500;TSS1500	cg19619064
PRKACA;PRKACA	NM_207518;NM_002730	cg19621460F	TSS1500;Body	cg19621460
RAX	NM_013435	cg19621753R	Body	cg19621753
PCCA;PCCA	NM_001127692;NM_000282	cg19622138R	Body;Body	cg19622138
		cg19622940F		cg19622940
AGBL4	NM_032785	cg19624489R	Body	cg19624489
PARP1	NM_001618	cg19624601F	Body	cg19624601
		cg19628758R		cg19628758
NFXL1	NM_152995	cg19628908R	Body	cg19628908
		cg19629543R		cg19629543
		cg19631346R		cg19631346
MCF2L;MCF2L	NM_001112732;NM_024979	cg19632953F	Body;Body	cg19632953
MGC13005	NR_024004	cg19633822R	Body	cg19633822
		cg19635188R		cg19635188
INPP5A	NM_005539	cg19649172R	Body	cg19649172
RSPH9	NM_152732	cg19651268F	Body	cg19651268
TMCC3	NM_020698	cg19653282F	Body	cg19653282
TNRC18	NM_001080495	cg19658444F	Body	cg19658444
		cg19663284R		cg19663284
		cg19665882F		cg19665882
		cg19667559F		cg19667559
ZNF358	NM_018083	cg19669199F	Body	cg19669199
		cg19669785R		cg19669785
		cg19670693F		cg19670693
KCNQ1;KCNQ1	NM_000218;NM_181798	cg19670883F	Body;Body	cg19670883
PRDM15;PRDM15	NM_022115;NM_001040424	cg19674350F	Body;Body	cg19674350
		cg19674688F		cg19674688
FAM19A3;FAM19A3	NM_182759;NM_001004440	cg19675955F	3'UTR;3'UTR	cg19675955
		cg19677184R		cg19677184
		cg19678315F		cg19678315
		cg19678730F		cg19678730
CALD1;CALD1;CALD1	NM_033157;NM_033138;NM	cg19679250F	TSS1500;TSS1500;TSS1500	cg19679250
FAM122C;FAM122C;FAM	NM_001170783;NM_001170	cg19681107R	TSS1500;TSS1500;TSS1500	cg19681107
HACE1;HACE1	NM_020771;NM_020771	cg19683457F	5'UTR;1stExon	cg19683457
		cg19685709F		cg19685709

ALDH7A1	NM_001182	cg19689922F	TSS1500	cg19689922
		cg19690486F		cg19690486
KIF26B	NM_018012	cg19690711F	Body	cg19690711
		cg19693446F		cg19693446
HGC6.3	NM_001129895	cg19693890R	TSS200	cg19693890
ZCCHC10	NM_017665	cg19696103R	Body	cg19696103
AKR1E2	NM_001040177	cg19697109F	Body	cg19697109
		cg19699682F		cg19699682
PPARGC1A	NM_013261	cg19701879R	Body	cg19701879
		cg19702937F		cg19702937
		cg19703614F		cg19703614
		cg19704755F		cg19704755
TMEM30B	NM_001017970	cg19705215F	1stExon	cg19705215
		cg19707448R		cg19707448
DNER	NM_139072	cg19708432F	Body	cg19708432
		cg19709608R		cg19709608
CCDC111	NM_152683	cg19709928R	Body	cg19709928
HLA-DPB2	NR_001435	cg19710814R	Body	cg19710814
CD81	NM_004356	cg19712490R	TSS200	cg19712490
		cg19716125F		cg19716125
ZBTB20;ZBTB20;ZBTB20	NM_001164345;NM_001164	cg19717061F	5'UTR;5'UTR;5'UTR;5'U	cg19717061
PUS7;PUS7	NM_019042;NM_019042	cg19717193R	1stExon;5'UTR	cg19717193
RNF220	NM_018150	cg19719902F	5'UTR	cg19719902
BCL2L12;BCL2L12	NM_001040668;NM_138639	cg19721730F	Body;Body	cg19721730
RPS8;SNORD38A;SNORD	NM_001012;NR_001456;NR	cg19723596R	Body;TSS1500;TSS1500	cg19723596
LOC202181	NR_026921	cg19727492R	TSS1500	cg19727492
CEP55;CEP55;CEP55;CEP	NM_018131;NM_001127182	cg19731367R	1stExon;1stExon;5'UTR;	cg19731367
NRP2;NRP2;NRP2;NRP2;N	NM_201279;NM_018534;NM	cg19731541F	Body;Body;Body;Body;B	cg19731541
TDRD12	NM_001110822	cg19732625F	Body	cg19732625
LOC285045;LOC285045;L	NR_027100;NR_027099;NR	cg19733894R	Body;Body;Body	cg19733894
CNPY1	NM_001103176	cg19734188R	TSS1500	cg19734188
HMGB1L1	NM_001008735	cg19734257R	TSS200	cg19734257
F2R	NM_001992	cg19735421F	TSS1500	cg19735421
		cg19735739F		cg19735739
		cg19735804R		cg19735804
		cg19735903R		cg19735903
		cg19736117R		cg19736117
PARK2;PARK2;PARK2	NM_004562;N L_013987;NM	cg19737004F	Body;Body;Body	cg19737004
RPA3	NM_002947	cg19739774F	5'UTR	cg19739774
		cg19740361R		cg19740361
GLI3	NM_000168	cg19742965R	Body	cg19742965
OBSCN;OBSCN	NM_052843;NM_001098623	cg19746567R	Body;Body	cg19746567
		cg19747911F		cg19747911
ST6GALNAC3	NM_152996	cg19748436F	3'UTR	cg19748436
UBA52;UBA52	NM_003333;NM_001033930	cg19748516R	Body;Body	cg19748516
		cg19751754F		cg19751754
CYTH4	NM_013385	cg19751930F	TSS1500	cg19751930
DOCK1	NM_001380	cg19752018F	Body	cg19752018
TIAM1	NM_003253	cg19754536F	Body	cg19754536
SRM	NM_003132	cg19757631F	Body	cg19757631
SLC38A10;SLC38A10	NM_001037984;NM_138570	cg19760249R	Body;Body	cg19760249
STK32B	NM_018401	cg19761271R	Body	cg19761271
DUSP5P	NR_002834	cg19764421F	Body	cg19764421
ARHGAP29	NM_004815	cg19765451F	5'UTR	cg19765451

		cg19776945F		cg19776945
KIF26A	NM_015656	cg19777396R	Body	cg19777396
KCNU1	NM_001031836	cg19782158R	TSS1500	cg19782158
SYNJ1;SYNJ1;SYNJ1;SYN	NM_001160306;NM_003895	cg19784013R	Body;Body;Body;Body	cg19784013
		cg19785312F		cg19785312
LRRK1	NM_024652	cg19786805R	Body	cg19786805
PLA2G6;PLA2G6	NM_001004426;NM_003560	cg19787769F	TSS200;TSS200	cg19787769
BAALC;BAALC;C8orf56	NM_024812;NM_001024372	cg19790640F	Body;Body;TSS1500	cg19790640
		cg19794674R		cg19794674
TMED10	NM_006827	cg19794706R	1stExon	cg19794706
FLJ42709;FLJ42709	NR_021490;NR_021491	cg19797741R	Body;Body	cg19797741
		cg19798908F		cg19798908
MUPCDH;MUPCDH	NM_021924;NM_031264	cg19800336F	Body;Body	cg19800336
SMYD3;SMYD3	NM_022743;NM_001167740	cg19805863R	Body;Body	cg19805863
HSD17B2;HSD17B2	NM_002153;NM_002153	cg19807685F	5'UTR;1stExon	cg19807685
		cg19807991F		cg19807991
BANP;BANP	NM_017869;NM_079837	cg19809575F	Body;Body	cg19809575
ADARB1;ADARB1;ADARN	NM_015833;NM_001160230	cg19810954R	5'UTR;5'UTR;5'UTR;Bo	cg19810954
SIK2	NM_015191	cg19812747F	Body	cg19812747
ZBTB17	NM_003443	cg19813284F	Body	cg19813284
		cg19813674F		cg19813674
		cg19814742R		cg19814742
OTUD6A;OTUD6A	NM_207320;NM_207320	cg19815006F	1stExon;3'UTR	cg19815006
		cg19816059F		cg19816059
SYT1;SYT1;SYT1	NM_005639;NM_001135805	cg19816586R	Body;Body;Body	cg19816586
		cg19818308R		cg19818308
SFRS11	NM_004768	cg19819135F	Body	cg19819135
C14orf49	NM_152592	cg19821124F	Body	cg19821124
		cg19824436R		cg19824436
GPR183;UBAC2;UBAC2;UNM	NM_004951;NM_001144072	cg19825182F	Body;Body;Body;Body	cg19825182
ST6GAL2;ST6GAL2;ST6GNM	NM_001142352;NM_032528	cg19825856R	5'UTR;5'UTR;5'UTR	cg19825856
PRDM16;PRDM16	NM_022114;NM_199454	cg19825974R	Body;Body	cg19825974
		cg19826439F		cg19826439
LOXHD1	NM_144612	cg19829856R	TSS1500	cg19829856
RPS6KA4;RPS6KA4	NM_003942;NM_001006944	cg19831303R	TSS200;TSS200	cg19831303
GOLGA3	NM_005895	cg19837214R	5'UTR	cg19837214
PRDM9	NM_020227	cg19837938R	TSS1500	cg19837938
ANO7	NM_001001891	cg19838074F	Body	cg19838074
		cg19841572F		cg19841572
		cg19841649F		cg19841649
PRDM6	NM_001136239	cg19843165F	Body	cg19843165
		cg19846154R		cg19846154
		cg19846295F		cg19846295
		cg19847283R		cg19847283
COL29A1;COL29A1	NR_022012;NM_153264	cg19847554R	Body;Body	cg19847554
FBXL14	NM_152441	cg19853333F	Body	cg19853333
RASSF1;RASSF1;RASSF1	NM_170713;NM_170712;NM_170711	cg19854901F	TSS1500;TSS1500;Body	cg19854901
KIF26B	NM_018012	cg19855153R	Body	cg19855153
C22orf45;ADORA2A	NR_028484;NM_000675	cg19855777F	Body;Body	cg19855777
KY	NM_178554	cg19856252F	TSS1500	cg19856252
FIGNL2	NM_001013690	cg19856499F	1stExon	cg19856499
		cg19856897F		cg19856897
CLSTN1;CLSTN1	NM_014944;NM_001009566	cg19858017R	TSS200;TSS200	cg19858017
		cg19858311F		cg19858311

		cg19858371R		cg19858371
		cg19860173R		cg19860173
B3GNTL1	NM_001009905	cg19860759F	Body	cg19860759
GPR125	NM_145290	cg19861632R	Body	cg19861632
ADAMTS2;ADAMTS2	NM_021599;NM_014244	cg19863955R	Body;Body	cg19863955
		cg19863964R		cg19863964
		cg19864811R		cg19864811
		cg19865087F		cg19865087
		cg19870706R		cg19870706
		cg19875936R		cg19875936
PSMC5;FTSJ3;FTSJ3	NM_002805;NM_017647;NM_017647	cg19877921F	TSS200;1stExon;5'UTR	cg19877921
		cg19878214R		cg19878214
		cg19882663R		cg19882663
		cg19886777F		cg19886777
TP53AIP1	NM_022112	cg19889666F	TSS200	cg19889666
SCYL2	NM_017988	cg19892758F	5'UTR	cg19892758
USP15	NM_006313	cg19893717R	TSS200	cg19893717
		cg19896591F		cg19896591
RAPGEF6;RAPGEF6;RAPGEF6	NM_001164388;NM_001164388	cg19900557R	Body;Body;Body;Body;Body	cg19900557
USP35	NM_020798	cg19901956R	Body	cg19901956
KCNAB2;KCNAB2	NM_003636;NM_172130	cg19902591R	Body;Body	cg19902591
		cg19903619F		cg19903619
		cg19904322R		cg19904322
ADRBK1	NM_001619	cg19905880F	Body	cg19905880
TCFL5	NM_006602	cg19907964F	3'UTR	cg19907964
STEAP3;STEAP3;STEAP3	NM_018234;NM_182915;NM_182915	cg19911116R	Body;Body;Body	cg19911116
TNKS2	NM_025235	cg19912736R	Body	cg19912736
RGPD2	NM_001078170	cg19912883R	TSS200	cg19912883
ANO9	NM_001012302	cg19913688F	Body	cg19913688
NAALADL1	NM_005468	cg19917412R	Body	cg19917412
KHDRBS1	NM_006559	cg19918821R	Body	cg19918821
HAND1	NM_004821	cg19919344R	Body	cg19919344
CD180	NM_005582	cg19919989F	1stExon	cg19919989
SMURF1;SMURF1	NM_020429;NM_181349	cg19921577F	Body;Body	cg19921577
ATP6V1A	NM_001690	cg19924544F	Body	cg19924544
EMX2;EMX2	NM_001165924;NM_004098	cg19925204F	3'UTR;Body	cg19925204
		cg19925518F		cg19925518
		cg19927058R		cg19927058
		cg19928943F		cg19928943
		cg19929302F		cg19929302
CDH4	NM_001794	cg19932370F	Body	cg19932370
ATP1B3	NM_001679	cg19936194R	TSS1500	cg19936194
SPOPL	NM_001001664	cg19936585F	5'UTR	cg19936585
		cg19936757F		cg19936757
BTBD11;BTBD11	NM_001017523;NM_001017523	cg19939178F	Body;Body	cg19939178
LAMB3;LAMB3;LAMB3	NM_001017402;NM_001017402	cg19939969R	Body;Body;Body	cg19939969
SEPT5	NM_002688	cg19940065R	TSS1500	cg19940065
		cg19940459R		cg19940459
KCNA3	NM_002232	cg19942256F	1stExon	cg19942256
NDUFC1	NM_002494	cg19942560F	3'UTR	cg19942560
RTN1;RTN1;RTN1	NM_021136;NM_206852;NM_206852	cg19946694F	Body;Body;Body	cg19946694
TIGD2	NM_145715	cg19947233F	TSS1500	cg19947233
ANK2;ANK2;ANK2	NM_001148;NM_001127493	cg19949241F	Body;Body;Body	cg19949241
MIOX	NM_017584	cg19949959F	3'UTR	cg19949959



LOC100329109	NR_033248	cg19953728R cg19955257F cg19955849R	Body	cg19953728 cg19955257 cg19955849
CDON	NM_016952	cg19956769F	Body	cg19956769
USP6NL	NM_014688	cg19956889F	5'UTR	cg19956889
DHRS2;DHRS2	NM_182908;NM_005794	cg19958389R	TSS1500;TSS1500	cg19958389
SNTN	NM_001080537	cg19958890R	TSS1500	cg19958890
EXOC6B	NM_015189	cg19961648F	Body	cg19961648
SNRPN;SNRPN;SNRPN	NM_022808;NM_022807;NM_022806	cg19964320F	5'UTR;5'UTR;5'UTR	cg19964320
PTGR2;PTGR2;PTGR2	NM_001146154;NM_152444	cg19969431F	5'UTR;5'UTR;5'UTR	cg19969431
RAB27A;RAB27A	NM_183235;NM_183235	cg19970425F	1stExon;5'UTR	cg19970425
FLT4;FLT4	NM_002020;NM_182925	cg19972193R	Body;Body	cg19972193
CDC10L	NR_027269	cg19972287R	Body	cg19972287
FBF1	NM_001080542	cg19973604F	Body	cg19973604
BRSK2	NM_003957	cg19977004F	3'UTR	cg19977004
MOGS;MOGS	NM_001146158;NM_006302	cg19977241R	TSS200;TSS200	cg19977241
MTNR1B	NM_005959	cg19977866R	Body	cg19977866
C5orf15	NM_020199	cg19980912R cg19982609R cg19990342R	1stExon	cg19980912 cg19982609 cg19990342
RAB7A	NM_004637	cg19991780R	3'UTR	cg19991780
C2orf88;C2orf88	NM_001042521;NM_001042521	cg19995891F	5'UTR;5'UTR	cg19995891
NFKBIL1;NFKBIL1;NFKBIL1	NM_005007;NM_001144962	cg19997861R	Body;Body;Body;Body	cg19997861
CEBPZ;C2orf56;C2orf56	NM_005760;NM_144736;NM_144736	cg19998654R	TSS1500;Body;Body	cg19998654
IGFBP7	NM_001553	cg20002207R cg20005636R cg20005705R cg20006652R	Body	cg20002207 cg20005636 cg20005705 cg20006652
GNAS;GNAS;GNAS;GNAO1	NM_001077490;NM_016592	cg20008140F cg20010076R	3'UTR;3'UTR;TSS1500;	cg20008140 cg20010076
TUBA3C	NM_006001	cg20011604R cg20011726R	Body	cg20011604 cg20011726
F11R	NM_016946	cg20012024R	TSS1500	cg20012024
AFG3L2	NM_006796	cg20012885R	TSS1500	cg20012885
DPY19L1	NM_015283	cg20013963R cg20014824R	Body	cg20013963 cg20014824
EEF1A2	NM_001958	cg20015424R	Body	cg20015424
GNAS;GNAS;GNAS;GNAO1	NM_001077490;NM_000516	cg20018057F	3'UTR;TSS1500;Body;TSS1500	cg20018057
PANX2;PANX2;PANX2	NM_052839;NR_027691;NM_052839	cg20018425F	Body;Body;Body	cg20018425
CRYGB	NM_005210	cg20018812R cg20023120R cg20026205F	TSS200	cg20018812 cg20023120 cg20026205
TLX3	NM_021025	cg20027296F	Body	cg20027296
RASA3	NM_007368	cg20028528R cg20029324F	Body	cg20028528 cg20029324
PRR4;TAS2R46;PRH1	NM_001098538;NM_176887	cg20031632R	5'UTR;TSS200;5'UTR	cg20031632
PCMTD1	NM_052937	cg20035971R	3'UTR	cg20035971
GML	NM_002066	cg20036365R	TSS1500	cg20036365
DOCK5	NM_024940	cg20036377R cg20042662F cg20042908F cg20044666F	Body	cg20036377 cg20042662 cg20042908 cg20044666
MAGI2	NM_012301	cg20048109R	Body	cg20048109
SLC30A4	NM_013309	cg20049927R	3'UTR	cg20049927

CLMN	NM_024734	cg20050420F	Body	cg20050420
		cg20054394R		cg20054394
C7orf50;C7orf50;C7orf50	NM_001134395;NM_032350	cg20054412R	Body;Body;Body	cg20054412
KIAA1217;KIAA1217;KIANM_019590;NM_001098500		cg20054872R	Body;Body;Body	cg20054872
		cg20056593R		cg20056593
MEIS1	NM_002398	cg20056634R	3'UTR	cg20056634
		cg20058389F		cg20058389
		cg20059492R		cg20059492
		cg20062681R		cg20062681
		cg20063095F		cg20063095
C1orf144;C1orf144	NM_015609;NM_001114600	cg20065005R	Body;Body	cg20065005
FOXK2	NM_004514	cg20065905F	3'UTR	cg20065905
		cg20066391R		cg20066391
FAM47B	NM_152631	cg20067941F	1stExon	cg20067941
SBF2	NM_030962	cg20072162R	Body	cg20072162
ANUBL1;ANUBL1;ANUBNM_174890;NM_174890;NM_174890		cg20075270F	5'UTR;1stExon;1stExon;	cg20075270
MUC6	NM_005961	cg20077343F	Body	cg20077343
DNAH10	NM_207437	cg20079734R	Body	cg20079734
MCF2L;MCF2L	NM_001112732;NM_024979	cg20079766F	Body;Body	cg20079766
CCDC149;CCDC149	NM_001130726;NM_173463	cg20080590R	Body;3'UTR	cg20080590
NAPEPLD;NAPEPLD	NM_001122838;NM_198990	cg20081724R	5'UTR;5'UTR	cg20081724
FAM83E	NM_017708	cg20082196F	TSS200	cg20082196
		cg20083995R		cg20083995
GAK	NM_005255	cg20085268F	Body	cg20085268
ELOF1	NM_032377	cg20086579R	Body	cg20086579
APOC2	NM_000483	cg20090143R	Body	cg20090143
FAM111A;FAM111A;FAMNM_001142519;NM_001142		cg20091523F	TSS1500;TSS150 QTSS1	cg20091523
RHOBTB2;RHOBTB2;RH NM_001160036;NM_001160		cg20091591F	Body;Body;5'UTR	cg20091591
		cg20092531R		cg20092531
NAP1L1;NAP1L1;NAP1LINM_139207;NM_004537;NM_004537		cg20095338R	1stExon;1stExon;5'UTR;	cg20095338
ADPRHL1;ADPRHL1	NM_138430;NM_199162	cg20097507R	3'UTR;3'UTR	cg20097507
		cg20100151F		cg20100151
ALOX5AP	NM_001629	cg20103124F	TSS200	cg20103124
		cg20104126F		cg20104126
		cg20105448F		cg20105448
		cg20107996R		cg20107996
SSC5D	NM_001144950	cg20110801R	Body	cg20110801
SNORD116-3;SNORD116-NR_003318;NR_003324		cg20110984R	TSS200;TSS200	cg20110984
RIMBP2	NM_015347	cg20111978R	Body	cg20111978
NCRNA00171	NR_026751	cg20116979F	Body	cg20116979
LOC731779	NR_024441	cg20117477R	TSS200	cg20117477
RGMA;RGMA;RGMA;RGNM_001166283;NM_020211		cg20122635R	1stExon;Body;TSS200;T	cg20122635
GNAS;GNAS;GNAS;GNA NM_001077490;NR_003259;cg20126878F			3'UTR;Body;3'UTR;Bod	cg20126878
INPP4B;INPP4B	NM_003866;NM_001101669	cg20128671F	TSS200;TSS200	cg20128671
CLYBL	NM_206808	cg20129210R	3'UTR	cg20129210
CORO1B;CORO1B	NM_020441;NM_001018070	cg20134541R	5'UTR;5'UTR	cg20134541
		cg20143415R		cg20143415
SKI	NM_003036	cg20144521R	Body	cg20144521
HAS2	NM_005328	cg20146177R	Body	cg20146177
		cg20146904F		cg20146904
INTS1	NM_001080453	cg20148727R	Body	cg20148727
ZNF816A	NM_001031665	cg20149571F	5'UTR	cg20149571
		cg20149757F		cg20149757
		cg20149922R		cg20149922

SOX4	NM_003107	cg20151125F	TSS1500	cg20151125
SIKE1;SIKE1	NM_001102396;NM_025073	cg20153160R	TSS1500;TSS1500	cg20153160
CASP9;CASP9	NM_001229;NM_032996	cg20153829R	Body;Body	cg20153829
OSBPL8;OSBPL8	NM_001003712;NM_020841	cg20162066F	Body;Body	cg20162066
AKAP10	NM_007202	cg20162553F	Body	cg20162553
HSPB3	NM_006308	cg20169062R	TSS200	cg20169062
ATF3;ATF3;ATF3	NM_001674;NM_001040619	cg20169506F	5'UTR;5'UTR;5'UTR	cg20169506
SYCE1	NM_130784	cg20169779F	5'UTR	cg20169779
		cg20171860F		cg20171860
CAPZA2	NM_006136	cg20179048F	Body	cg20179048
ADHFE1	NM_144650	cg20180050F	Body	cg20180050
CISD1;IPMK;CISD1	NM_018464;NM_152230;NM_020841	cg20181420F	1stExon;TSS1500;5'UTR	cg20181420
RP1L1	NM_178857	cg20181426R	Body	cg20181426
		cg20186995F		cg20186995
DAAM2	NM_015345	cg20190922R	5'UTR	cg20190922
		cg20191066R		cg20191066
BAT2	NM_080686	cg20193104F	5'UTR	cg20193104
		cg20196537R		cg20196537
RRM2B	NM_015713	cg20199738F	TSS200	cg20199738
OR51E2	NM_030774	cg20201128R	5'UTR	cg20201128
MECOM	NM_004991	cg20201475R	Body	cg20201475
CACNA1G;CACNA1G;CANM_198384;NM_198379;NM_0204921F		cg20204921F	Body;Body;Body;Body;Body;Body	cg20204921
BAIAP2L2	NM_025045	cg20207973R	TSS200	cg20207973
PMEPA1;PMEPA1;PMEPANM_199169;NM_199170;NM_0208990R		cg20208990R	TSS1500;TSS1500;TSS200	cg20208990
		cg20211134R		cg20211134
KIF13A;KIF13A;KIF13A;KNM_001105567;NM_001105		cg20211816R	TSS1500;TSS1500;TSS1500	cg20211816
OR13J1	NM_001004487	cg20212823R	1stExon	cg20212823
		cg20214553R		cg20214553
		cg20216139R		cg20216139
TRIM59	NM_173084	cg20217449R	3'UTR	cg20217449
ABHD8	NM_024527	cg20218135R	Body	cg20218135
PARL;PARL	NM_001037639;NM_018622	cg20223211F	3'UTR;3'UTR	cg20223211
DOT1L	NM_032482	cg20225246R	Body	cg20225246
CPT1A;CPT1A	NM_001876;NM_001031847	cg20228509F	5'UTR;5'UTR	cg20228509
		cg20228890R		cg20228890
		cg20229939F		cg20229939
HSPA1L	NM_005527	cg20232119F	Body	cg20232119
EOMES	NM_005442	cg20235075R	Body	cg20235075
FBXO22OS;FBXO22	NR_003136;NM_147188	cg20237920R	TSS1500;3'UTR	cg20237920
KIR3DL1	NM_013289	cg20244649F	TSS200	cg20244649
SORBS2	NM_021069	cg20245328R	5'UTR	cg20245328
		cg20245361R		cg20245361
ESPN	NM_031475	cg20248421R	Body	cg20248421
SEMA4C	NM_017789	cg20248656F	TSS1500	cg20248656
		cg20249210R		cg20249210
		cg20249877F		cg20249877
		cg20250336F		cg20250336
UCKL1;MIR1914;MIR647	NM_017859;NR_031735;NR_031735	cg20252837R	Body;TSS1500;TSS200	cg20252837
RYR2	NM_001035	cg20253561F	Body	cg20253561
ZC3H3	NM_015117	cg20254251R	Body	cg20254251
SHC2	NM_012435	cg20255699R	Body	cg20255699
OVCA2;DPH1	NM_080822;NM_001383	cg20257372F	TSS200;3'UTR	cg20257372
ST18	NM_014682	cg20259981R	5'UTR	cg20259981
		cg20265360F		cg20265360

C1orf198;C1orf198	NM_001136494;NM_032800	cg20268689R cg20272604F	5'UTR;TSS1500	cg20268689 cg20272604
HEATR4	NM_203309	cg20273387F	TSS1500	cg20273387
HERC2	NM_004667	cg20276232F	5'UTR	cg20276232
THAP3	NM_138350	cg20285559F	Body	cg20285559
AATK	NM_001080395	cg20287221R cg20288445R	Body	cg20287221 cg20288445
CCDC24	NM_152499	cg20290361F	Body	cg20290361
CYTSB;CYTSB;CYTSB;C	NM_001033554;NM_152904	cg20290367R cg20290850R	Body;Body;Body;Body	cg20290367 cg20290850
MRPS18A	NM_018135	cg20290983F	1stExon	cg20290983
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg20295408F cg20296107F	Body;Body;Body	cg20295408 cg20296107
ADCY5	NM_183357	cg20300093R cg20301677R	Body	cg20300093 cg20301677
GAL3ST2	NM_022134	cg20302497R cg20302975F	TSS1500	cg20302497 cg20302975
PABPC1;PABPC1	NM_002568;NM_002568	cg20304401F cg20307021F	5'UTR;1stExon	cg20304401 cg20307021
HIP1	NM_005338	cg20307391F cg20310631F	Body	cg20307391 cg20310631
EPS15	NM_001981	cg20312179R	Body	cg20312179
LOC400927	NR_002821	cg20316284F	TSS200	cg20316284
GABPB2	NM_144618	cg20320717R	5'UTR	cg20320717
CYP26C1	NM_183374	cg20322977F	1stExon	cg20322977
SLC4A11	NM_032034	cg20323491F	TSS200	cg20323491
CSMD3;CSMD3;CSMD3	NM_052900;NM_198123;NM_198123	cg20323509R	Body;Body;TSS200	cg20323509
FIP1L1;FIP1L1;FIP1L1	NM_030917;NM_001134938	cg20325293F	Body;Body;Body	cg20325293
MCHR1	NM_005297	cg20326580R	3'UTR	cg20326580
KCNH5;KCNH5;KCNH5	NM_172375;NM_172376;NM_172376	cg20326674R cg20331322F	Body;3'UTR;Body	cg20326674 cg20331322
RHEB	NM_005614	cg20333869F	Body	cg20333869
S100A8	NM_002964	cg20335425R	5'UTR	cg20335425
ATP4B	NM_000705	cg20336809R	TSS1500	cg20336809
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg20338075R cg20339443F cg20341504F	Body;Body;Body	cg20338075 cg20339443 cg20341504
KRAS;KRAS	NM_004985;NM_033360	cg20341582R cg20342255F cg20342834R	TSS1500;TSS1500	cg20341582 cg20342255 cg20342834
MIR548C;RASSF3	NR_030347;NM_178169	cg20351875F	TSS1500;Body	cg20351875
PNPLA2	NM_020376	cg20359360R	TSS1500	cg20359360
LOC619207	NR_002934	cg20365330F	Body	cg20365330
CXCR4	NM_003467	cg20366284R	TSS1500	cg20366284
AAGAB	NM_024666	cg20367788R cg20368377F	Body	cg20367788 cg20368377
IQCG;RPL35A	NM_032263;NM_000996	cg20370345R	5'UTR;3'UTR	cg20370345
SLC17A2	NM_005835	cg20373747R	TSS200	cg20373747
ERCC5	NM_000123	cg20374041R	TSS1500	cg20374041
LTBP2	NM_000428	cg20375122F	Body	cg20375122
SNORD115-15;SNORD115	NR_003307;NR_003313;NR_003313	cg20375947R	Body;Body;TSS1500	cg20375947
MYL6B	NM_002475	cg20376421F	TSS200	cg20376421
RBMS1;RBMS1	NM_002897;NM_016836	cg20385461F	Body;Body	cg20385461
ARID1A;ARID1A	NM_006015;NM_139135	cg20385686F	Body;Body	cg20385686

LPCAT4	NM_153613	cg20385918F	TSS200	cg20385918
HCG4	NR_002139	cg20387069R	TSS200	cg20387069
		cg20387087R		cg20387087
PMS2L1	NR_003613	cg20389750R	Body	cg20389750
GPD2;GPD2	NM_000408;NM_0010831	cg20390242R	TSS1500;TSS200	cg20390242
IRAK3;IRAK3	NM_007199;NM_0011425	cg20395892R	TSS200;TSS200	cg20395892
TSNARE1	NM_145003	cg20401786F	5'UTR	cg20401786
SMARCD1;SMARCD1	NM_139071;NM_003076	cg20405918R	TSS200;TSS200	cg20405918
PRKAG2	NM_016203	cg20406576R	Body	cg20406576
B3GNTL1	NM_001009905	cg20407796R	Body	cg20407796
SLC8A3;SLC8A3;SLC8A3	NM_182932;NM_058240;NM_058240	cg20409590R	5'UTR;1stExon;1stExon;	cg20409590
CDK4	NM_000075	cg20409636R	TSS200	cg20409636
OR6K6	NM_001005184	cg20410409R	TSS1500	cg20410409
		cg20417233R		cg20417233
MICB	NM_005931	cg20417529R	Body	cg20417529
ALDH3B2;ALDH3B2;ALDH3B2	NM_000695;NM_001031615	cg20420868F	1stExon;5'UTR;5'UTR	cg20420868
MED27	NM_004269	cg20422318R	1stExon	cg20422318
EHMT2;EHMT2	NM_006709;NM_025256	cg20422968F	Body;Body	cg20422968
		cg20424470F		cg20424470
PGCP	NM_016134	cg20426042R	5'UTR	cg20426042
ORC2L	NM_006190	cg20427312R	TSS1500	cg20427312
		cg20428720R		cg20428720
MT2A	NM_005953	cg20430434F	TSS200	cg20430434
		cg20430870F		cg20430870
NR2E1	NM_003269	cg20431250F	Body	cg20431250
TTBK1	NM_032538	cg20434586F	Body	cg20434586
CD93	NM_012072	cg20438277R	TSS200	cg20438277
PKP4;PKP4	NM_003628;NM_001005476	cg20438915F	5'UTR;5'UTR	cg20438915
DUOX1;DUOX1	NM_175940;NM_017434	cg20442586R	Body;Body	cg20442586
GSTA3	NM_000847	cg20443613R	Body	cg20443613
TGIF2	NM_021809	cg20443635R	TSS1500	cg20443635
TTC35	NM_014673	cg20444381F	Body	cg20444381
		cg20444784R		cg20444784
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg20446833R	Body;Body;Body	cg20446833
CHORDC1;CHORDC1	NM_001144073;NM_012124	cg20448129R	Body;Body	cg20448129
RHOQ	NM_012249	cg20449833F	1stExon	cg20449833
ZNF628	NM_033113	cg20455436R	Body	cg20455436
		cg20455802R		cg20455802
		cg20458811F		cg20458811
		cg20459849F		cg20459849
SNX25	NM_031953	cg20461310F	Body	cg20461310
SCYL1;SCYL1	NM_020680;NM_001048218	cg20462888F	TSS200;TSS200	cg20462888
HCN2	NM_001194	cg20463312R	Body	cg20463312
BRPF3	NM_015695	cg20463403R	Body	cg20463403
CCT8;CCT8	NM_006585;NM_006585	cg20466045R	5'UTR;1stExon	cg20466045
SCHIP1	NM_014575	cg20466180F	1stExon	cg20466180
PTPRS;PTPRS;PTPRS;PTPR	NM_130855;NM_002850;NM_002850	cg20468476F	Body;Body;Body;Body	cg20468476
		cg20468787F		cg20468787
NTF4	NM_006179	cg20471045F	TSS1500	cg20471045
PDE4D	NM_001165899	cg20473977F	Body	cg20473977
SH3BP4	NM_014521	cg20477160R	5'UTR	cg20477160
FRAS1;FRAS1	NM_025074;NM_001166133	cg20478578F	Body;Body	cg20478578
ID3	NM_002167	cg20485144R	TSS200	cg20485144
SEPT6;MIR766;SEPT6;SEPT6	NM_015129;NR_030413;NM_015129	cg20486690F	Body;TSS200;Body;Body	cg20486690

		cg20487860F		cg20487860
		cg20488820F		cg20488820
BMP8A	NM_181809	cg20489289R	Body	cg20489289
LIN7A	NM_004664	cg20495052R	Body	cg20495052
SORBS1;SORBS 1;SORBS	NM_006434;NM_001034956	cg20502346F	Body;Body;Body;Body;B	cg20502346
CA13	NM_198584	cg20508815R	Body	cg20508815
PLD3;PLD3;C19orf47	NM_012268;NM_001031696	cg20513206F	5'UTR;5'UTR;TSS1500	cg20513206
		cg20515846R		cg20515846
COL13A1;COL13A1;COL	NM_080798;NM_080809;NM	cg20516176F	Body;Body;Body;Body;	cg20516176
BAI1	NM_001702	cg20522761F	TSS1500	cg20522761
		cg20525763R		cg20525763
EXOSC7;EXOSC7	NM_015004;NR_023353	cg20528837R	3'UTR;Body	cg20528837
SLCO1A2;SLCO1A2	NM_134431;NM_134431	cg20529334F	5'UTR;1stExon	cg20529334
STAG3;GPC2	NM_012447;NM_152742	cg20531781R	TSS1500;TSS200	cg20531781
		cg20538707F		cg20538707
		cg20539350R		cg20539350
ISL2	NM_145805	cg20540209F	Body	cg20540209
GALNT10;GALNT10	NM_198321;NM_017540	cg20540306R	Body;Body	cg20540306
NDUFAF2;ERCC8;NDUFAN	NM_174889;NM_000082;NM	cg20540608R	1stExon;TSS200;5'UTR	cg20540608
		cg20541238F		cg20541238
		cg20545458R		cg20545458
POLR1D	NM_152705	cg20548564R	Body	cg20548564
FLJ42709;FLJ42709;FLJ42	NR_021490;NR_021491;NR	cg20550790R	Body;Body;Body	cg20550790
		cg20551756R		cg20551756
CTNS;CTNS	NM_001031681;NM_004937	cg20552412R	Body;Body	cg20552412
RIN3	NM_024832	cg20553058F	Body	cg20553058
PDCD6;AHRR	NM_013232;NM_020731	cg20554397F	Body;TSS1500	cg20554397
		cg20554832R		cg20554832
C21orf91;C21orf91;C21orf	NM_017447;NM_001100421	cg20556702R	TSS200;TSS200;TSS200	cg20556702
MAPK14;MAPK14;MAPKN	NM_001315;NM_139014;NM	cg20559215R	3'UTR;3'UTR;3'UTR	cg20559215
ATP9B	NM_198531	cg20559816R	Body	cg20559816
DOCK1	NM_001380	cg20561213F	Body	cg20561213
GRB2;GRB2	NM_002086;NM_203506	cg20561261R	3'UTR;3'UTR	cg20561261
KIAA0513	NM_014732	cg20565740F	TSS200	cg20565740
FAM190A	NM_001145065	cg20565833R	5'UTR	cg20565833
		cg20568140R		cg20568140
TDP1;TDP1	NM_018319;NM_001008744	cg20568408F	5'UTR;5'UTR	cg20568408
SLC15A1	NM_005073	cg20568691F	Body	cg20568691
		cg20569129F		cg20569129
CCPG1;CCPG1	NM_020739;NM_004748	cg20574650R	5'UTR;5'UTR	cg20574650
		cg20578850F		cg20578850
		cg20580913F		cg20580913
EXT1	NM_000127	cg20582388F	Body	cg20582388
		cg20586091F		cg20586091
		cg20588113R		cg20588113
		cg20589815F		cg20589815
OSBPL5;OSBPL5;OSBPL5	NM_020896;NM_001144063	cg20590109F	Body;Body;Body	cg20590109
DIAPH3;DIAPH3	NM_001042517;NM_030932	cg20592691R	Body;Body	cg20592691
WIPI2;WIPI2;WIPI2;WIPI	NM_015610;NM_001033519	cg20592700F	1stExon;1stExon;1stExon	cg20592700
UCKL1;ZNF512B	NM_017859;NM_020713	cg20593868R	TSS1500;3'UTR	cg20593868
PCDH17	NM_001040429	cg20594465F	Body	cg20594465
PDCD1	NM_005018	cg20601192F	Body	cg20601192
UHRF1;UHRF1	NM_013282;NM_001048201	cg20604957F	Body;Body	cg20604957
		cg20609883R		cg20609883

RAB4B	NM_016154	cg20611850F	TSS200	cg20611850
WASL	NM_003941	cg20617676R	TSS200	cg20617676
NUP62;ATF5;NUP62;NUP	NM_153718;NM_012068;NM	cg20624980F	1stExon;5'UTR;1stExon;	cg20624980
ARFGEF2	NM_006420	cg20625065R	TSS1500	cg20625065
		cg20625523R		cg20625523
RPH3AL	NM_006987	cg20626144F	Body	cg20626144
		cg20627903F		cg20627903
PSMB8;PSMB8;PSMB8	NM_004159;NM_148919;NM	cg20630683R	5'UTR;TSS1500;1stExon	cg20630683
COL11A2;COL11A2;COL	NM_080679;NM_080681;NM	cg20631997F	Body;Body;Body	cg20631997
OR4A5	NM_001005272	cg20634754R	1stExon	cg20634754
DIP2C	NM_014974	cg20634940F	Body	cg20634940
		cg20636559F		cg20636559
		cg20637807R		cg20637807
MSH5;MSH5;MSH5;MSH	NM_025259;NM_002441;NM	cg20640261R	TSS1500;TSS1500;TSS1	cg20640261
ZNF618	NM_133374	cg20640266R	Body	cg20640266
ICA1;ICA1;ICA1	NM_004968;NM_001136020	cg20641531F	TSS1500;TSS1500;TSS1	cg20641531
RELL2;RELL2;RELL2;HD	NM_001130029;NM_173828	cg20642138F	1stExon;5'UTR;1stExon;	cg20642138
ZGPAT;ZGPAT;ZGPAT;AN	NM_181485;NM_032527;NM	cg20642413F	TSS1500;TSS1500;TSS1	cg20642413
GABBR1;GABBR1;GABB	NM_021904;NM_021903;NM	cg20642417F	Body;Body;Body	cg20642417
AKR1D1	NM_005989	cg20647137R	1stExon	cg20647137
WDR69	NM_178821	cg20647610F	TSS200	cg20647610
QPCT	NM_012413	cg20647735R	TSS200	cg20647735
CXorf48;CXorf48	NM_017863;NM_001031705	cg20649285F	Body;Body	cg20649285
GP6;GP6	NM_001083899;NM_016363	cg20651389F	TSS1500;TSS1500	cg20651389
		cg20652464F		cg20652464
DIP2C	NM_014974	cg20652759R	Body	cg20652759
LOC284100	NR_024178	cg20653009F	Body	cg20653009
PLEKHG4B	NM_052909	cg20653695R	TSS1500	cg20653695
DIP2C	NM_014974	cg20653859R	Body	cg20653859
C6orf203;C6orf203;C6orf2	NM_001142470;NM_001142	cg20653986F	5'UTR;5'UTR;5'UTR;1st	cg20653986
TMEM151B	NM_001137560	cg20654260R	Body	cg20654260
FAT1	NM_005245	cg20656964F	Body	cg20656964
MAML2	NM_032427	cg20662334F	TSS1500	cg20662334
DGKZ;DGKZ	NM_201533;NM_201532	cg20666386F	1stExon;Body	cg20666386
ADAM12;ADAM12	NM_003474;NM_021641	cg20667008R	Body;Body	cg20667008
GRIA1;GRIA1	NM_000827;NM_001114183	cg20668321F	3'UTR;3'UTR	cg20668321
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM	cg20670679F	Body;Body;Body	cg20670679
		cg20671781F		cg20671781
SOX7	NM_031439	cg20671920F	Body	cg20671920
		cg20672711R		cg20672711
RAB32	NM_006834	cg20673472F	Body	cg20673472
LOC340357	NR_015383	cg20674212F	Body	cg20674212
PMF1	NM_007221	cg20674231R	Body	cg20674231
ZMIZ1	NM_020338	cg20679052F	Body	cg20679052
		cg20679403R		cg20679403
IRF2	NM_002199	cg20681219F	TSS1500	cg20681219
		cg20681783R		cg20681783
ZNF611;ZNF611;ZNF611;	NM_001161499;NM_001161	cg20685139R	1stExon;5'UTR;5'UTR;1st	cg20685139
CEACAM5;CEACAM5	NM_004363;NM_004363	cg20690737F	5'UTR;1stExon	cg20690737
OXER1;OXER1	NM_148962;NM_148962	cg20691720F	1stExon;3'UTR	cg20691720
APIAR;APIAR	NM_018569;NM_001128426	cg20693608R	TSS200;TSS200	cg20693608
N6AMT2	NM_174928	cg20694666F	5'UTR	cg20694666
MYST2	NM_007067	cg20695529R	Body	cg20695529
PHACTR4;PHACTR4	NM_023923;NM_001048183	cg20696674R	3'UTR;3'UTR	cg20696674

CGB5	NM_033043	cg20698253R cg20699839R	TSS1500	cg20698253 cg20699839
DGCR6L;DGCR6L	NM_033257;NM_033257	cg20702295F	1stExon;5'UTR	cg20702295
N4BP3	NM_015111	cg20703579F	Body	cg20703579
MYO1C;MYO1C	NM_001080779;NM_033375	cg20703671R	TSS200;TSS1500	cg20703671
ADARB2	NM_018702	cg20704381R	Body	cg20704381
MIR548F5;NBEA	NR_031646;NM_015678	cg20704442R	Body;Body	cg20704442
DOK1	NM_001381	cg20706438F	Body	cg20706438
CIB1;C15orf58;CIB1	NM_006384;NM_001013657	cg20706599F	5'UTR;TSS1500;1stExon	cg20706599
MEGF6	NM_001409	cg20707157F	Body	cg20707157
OSR1	NM_145260	cg20707692F	5'UTR	cg20707692
BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_006340	cg20707786F cg20708282F	Body;Body;Body;Body	cg20707786 cg20708282
AMBRA1	NM_017749	cg20709370F cg20710898R	Body	cg20709370 cg20710898
CETN3	NM_004365	cg20713816F	TSS200	cg20713816
SLC7A14	NM_020949	cg20714059R cg20719122F	Body	cg20714059 cg20719122
EP400	NM_015409	cg20723473F	Body	cg20723473
MCF2L;MCF2L	NM_001112732;NM_024979	cg20723941R cg20725334F	Body;Body	cg20723941 cg20725334
SERPINB9	NM_004155	cg20726195R cg20726282F	Body	cg20726195 cg20726282
RUNDC3A;RUNDC3A;RUNDC3A	NM_001144826;NM_001144826	cg20727623R	Body;Body;Body	cg20727623
EP300	NM_001429	cg20730595R cg20731100F	Body	cg20730595 cg20731100
FLJ25363	NM_001145553	cg20731562F	TSS200	cg20731562
TEAD1	NM_021961	cg20733108R	Body	cg20733108
TMED7-TICAM2;TICAM2	NM_001164468;NM_021649	cg20733436F	Body;5'UTR;Body	cg20733436
CRMP1;CRMP1	NM_001014809;NM_001313	cg20737500R	Body;Body	cg20737500
WNT5A	NM_003392	cg20741319R cg20741605R	Body	cg20741319 cg20741605
MEIG1	NM_001080836	cg20742906R	TSS200	cg20742906
HIVEP2	NM_006734	cg20743720R cg20746422R cg20747449F	5'UTR	cg20743720 cg20746422 cg20747449
PRKAR1B;PRKAR1B;PRKAR1B	NM_001164759;NM_001164759	cg20750319F	Body;Body;Body;Body;Body	cg20750319
RIMS4	NM_182970	cg20752831F cg20754155F	3'UTR	cg20752831 cg20754155
GPS2;GPS2	NM_004489;NM_004489	cg20754634F	5'UTR;1stExon	cg20754634
BMPR1B	NM_001203	cg20756175R	5'UTR	cg20756175
LRRC37B2	NR_015341	cg20756454R	Body	cg20756454
TMPRSS4;TMPRSS4	NM_019894;NM_001083947	cg20757532R cg20758882F	TSS1500;TSS1500	cg20757532 cg20758882
ADCY2	NM_020546	cg20759084R cg20761810F	TSS1500	cg20759084 cg20761810
AGAP1;AGAP1	NM_014914;NM_001037131	cg20762805F cg20768515R	Body;Body	cg20762805 cg20768515
SBF1;SBF1	NM_002972;NM_002972	cg20769334F cg20769700F	5'UTR;1stExon	cg20769334 cg20769700
SHANK2;SHANK2	NM_012309;NM_133266	cg20771332F cg20773009R	Body;Body	cg20771332 cg20773009
EBPL	NM_032565	cg20773729F	1stExon	cg20773729
BCL9	NM_004326	cg20779314R	5'UTR	cg20779314



ZNF397OS;ZNF397OS	NM_001166012;NM_001112	cg20782653F cg20785336R cg20788020R	5'UTR;5'UTR	cg20782653 cg20785336 cg20788020
PRICKLE4	NM_013397	cg20797552F	5'UTR	cg20797552
HHAT;HHAT;HHAT;HHANM_018194;NM_001122834		cg20803076R	TSS1500;TSS1500;TSS1500	cg20803076
POLR3D	NM_001722	cg20806085F cg20806140R	3'UTR	cg20806085 cg20806140
LOC400927	NR_002821	cg20808578F	TSS200	cg20808578
TNIP2;TNIP2	NM_024309;NM_001161527	cg20809690F	1stExon;TSS200	cg20809690
MIOX	NM_017584	cg20810072R	Body	cg20810072
SDK1;SDK1	NR_027816;NM_152744	cg20810125F	Body;Body	cg20810125
PRPF3	NM_004698	cg20811730R cg20814813R cg20816361R cg20816967F	TSS200	cg20811730 cg20814813 cg20816361 cg20816967
GAK	NM_005255	cg20818191F	Body	cg20818191
ZFYVE28	NM_020972	cg20818265F cg20821187R	Body	cg20818265 cg20821187
VTCN1	NM_024626	cg20821424R	TSS1500	cg20821424
PITPNC1;PITPNC1	NM_012417;NM_181671	cg20821885F cg20823026F cg20825110R	3'UTR;3'UTR	cg20821885 cg20823026 cg20825110
PBX1	NM_002585	cg20825416F	Body	cg20825416
HCCA2;KRTAP5-2;LOC3	NM_053005;NM_001004325	cg20825710R	Body;TSS1500;Body	cg20825710
EBF4	NM_001110514	cg20826224F	Body	cg20826224
PLEKHG7	NM_001004330	cg20829550F	TSS1500	cg20829550
PTDSS2	NM_030783	cg20831041F	Body	cg20831041
RFTN2	NM_144629	cg20832722R	Body	cg20832722
DGKB;DGKB	NM_145695;NM_004080	cg20836993F	Body;Body	cg20836993
INTS6;INTS6;INTS6	NM_012141;NM_001039938	cg20840706R cg20840778R cg20844427F cg20847018R cg20851030R	TSS1500;TSS1500;TSS1500	cg20840706 cg20840778 cg20844427 cg20847018 cg20851030
RNF213;LOC100294362	NM_020914;NR_029376	cg20851790R	Body;Body	cg20851790
HDLBP	NM_005336	cg20863321F	5'UTR	cg20863321
OMP;CAPN5	NM_006189;NM_004055	cg20864579R cg20864707F cg20866393F	1stExon;Body	cg20864579 cg20864707 cg20866393
LOC220429	NR_003268	cg20877507F	Body	cg20877507
LAMP1	NM_005561	cg20882571R cg20885910F	TSS1500	cg20882571 cg20885910
PRKCD;PRKCD	NM_212539;NM_006254	cg20886263F	5'UTR;5'UTR	cg20886263
LRP5	NM_002335	cg20892743R	Body	cg20892743
STK25	NM_006374	cg20896338R	TSS200	cg20896338
WDR20	NM_181291	cg20897046F	Body	cg20897046
TCTN2;TCTN2	NM_024809;NM_001143850	cg20897652F cg20898922R	TSS1500;TSS1500	cg20897652 cg20898922
USP50	NM_203494	cg20899379F	TSS1500	cg20899379
LOC100133469	NR_027457	cg20900869F	TSS1500	cg20900869
OGFR	NM_007346	cg20901426F cg20904286F	Body	cg20901426 cg20904286
RAET1G	NM_001001788	cg20906495F	3'UTR	cg20906495
LOC285419	NR_027105	cg20908556R	Body	cg20908556

TSGA14	NM_018718	cg20910568R		cg20910568
CDCA4;CDCA4	NM_017955;NM_145701	cg20912211R	TSS200	cg20912211
		cg20916237F	5'UTR;5'UTR	cg20916237
		cg20919914F		cg20919914
		cg20922701F		cg20922701
ALS2	NM_020919	cg20924735F	3'UTR	cg20924735
SLC6A6;SLC6A6;SLC6A6	NM_003043;NM_001134368	cg20927312R	TSS1500;TSS1500;TSS1500	cg20927312
MYO1C;MYO1C;MYO1C	NM_001080779;NM_033375	cg20929407F	Body;Body;Body	cg20929407
HMBS;HMBS	NM_001024382;NM_000190	cg20929545F	TSS1500;Body	cg20929545
RIN3	NM_024832	cg20934105F	Body	cg20934105
CDK12;CDK12	NM_016507;NM_015083	cg20936107R	3'UTR;3'UTR	cg20936107
CTSA;CTSA;PLTP;CTSA;	NM_001167594;NM_000308	cg20936854F	3'UTR;3'UTR;3'UTR;3'UTR	cg20936854
BNC1	NM_001717	cg20941110R	TSS1500	cg20941110
PEAR1	NM_001080471	cg20948486R	TSS1500	cg20948486
FAM20C	NM_020223	cg20949644F	Body	cg20949644
CYB5R3;CYB5R3;CYB5R3	NM_007326;NM_000398;NM_000398	cg20950843F	TSS1500;Body;TSS1500	cg20950843
MPHOSPH8	NM_017520	cg20952532F	TSS200	cg20952532
		cg20954870R		cg20954870
		cg20957553F		cg20957553
C1orf70	NM_001114748	cg20958600R	Body	cg20958600
KATNAL2;TCEB3B	NM_031303;NM_016427	cg20960383R	5'UTR;TSS200	cg20960383
DNAJC10	NM_018981	cg20962211F	TSS200	cg20962211
		cg20962833F		cg20962833
LPCAT1	NM_024830	cg20962974F	Body	cg20962974
CCDC83	NM_173556	cg20963267F	5'UTR	cg20963267
		cg20966187F		cg20966187
NIN;NIN;NIN	NM_182946;NM_020921;NM_020921	cg20969923F	5'UTR;5'UTR;5'UTR	cg20969923
		cg20972216F		cg20972216
SDHA	NM_004168	cg20972342F	Body	cg20972342
MEGF6	NM_001409	cg20974822R	Body	cg20974822
C18orf56;TYMS;TYMS	NM_001012716;NM_001071	cg20977660F	3'UTR;1stExon;5'UTR	cg20977660
HDHD2	NM_032124	cg20977716F	Body	cg20977716
ZBTB17	NM_003443	cg20979128R	Body	cg20979128
NR2F6	NM_005234	cg20981127R	TSS1500	cg20981127
SART1	NM_005146	cg20986608F	Body	cg20986608
		cg20988870R		cg20988870
		cg20990620F		cg20990620
GIMAP1	NM_130759	cg20990694F	Body	cg20990694
PKP3	NM_007183	cg20992002F	TSS1500	cg20992002
		cg20993764F		cg20993764
ZFPM2	NM_012082	cg20994227R	Body	cg20994227
C6orf47	NM_021184	cg20995172R	1stExon	cg20995172
LGR6;LGR6;LGR6	NM_021636;NM_001017404	cg20996348R	Body;Body;Body	cg20996348
		cg20996620R		cg20996620
		cg20997993R		cg20997993
APP;APP;APP;APP;APP	NM_001136130;NM_000484	cg21000999F	3'UTR;3'UTR;3'UTR;3'UTR	cg21000999
		cg21001231R		cg21001231
RPS6KA1;RPS6KA1	NM_002953;NM_001006665	cg21004490F	Body;TSS200	cg21004490
KIAA0528	NM_014802	cg21005240F	Body	cg21005240
		cg21006422R		cg21006422
		cg21010686R		cg21010686
DRD2;DRD2	NM_000795;NM_016574	cg21013206F	TSS1500;TSS1500	cg21013206
GPC1	NM_002081	cg21014972F	Body	cg21014972
DPH3B;TCFL5	NM_080750;NM_006602	cg21017077F	TSS1500;Body	cg21017077

SLC22A18;SLC22A18AS	NM_183233;NM_007105	cg21019522R	TSS200;Body	cg21019522
BIN2	NM_016293	cg21022247R	TSS1500	cg21022247
IGF2BP3	NM_006547	cg21025494R	Body	cg21025494
		cg21027035R		cg21027035
RAD51L1;RAD51L1;RAD	NM_133509;NM_002877;NM	cg21027282F	Body;Body;Body	cg21027282
		cg21030416F		cg21030416
DENND3	NM_014957	cg21031226R	Body	cg21031226
		cg21036766F		cg21036766
WWC1;WWC1;WWC1	NM_001161662;NM_015238	cg21038780R	Body;Body;Body	cg21038780
KCNH4	NM_012285	cg21041514F	TSS200	cg21041514
COL25A1;COL25A1	NM_198721;NM_032518	cg21041751R	Body;Body	cg21041751
ZNF628	NM_033113	cg21047429F	Body	cg21047429
POLD3	NM_006591	cg21048411F	Body	cg21048411
SEMA5A	NM_003966	cg21051568F	Body	cg21051568
ZBTB32	NM_014383	cg21062760F	Body	cg21062760
ASCL2	NM_005170	cg21063716R	TSS1500	cg21063716
DCAKD;DCAKD	NM_001128631;NM_024819	cg21066028R	Body;Body	cg21066028
EPS15L1	NM_021235	cg21067775F	Body	cg21067775
RNF146	NM_030963	cg21068736F	5'UTR	cg21068736
LONP1	NM_004793	cg21069078F	Body	cg21069078
SLC41A3;SLC41A3;SLC4	NM_017836;NM_001008485	cg21069563F	5'UTR;5'UTR;5'UTR;5'U	cg21069563
		cg21070222F		cg21070222
		cg21071237F		cg21071237
		cg21071940R		cg21071940
APOLD1	NM_001130415	cg21074476R	Body	cg21074476
CACNA2D2;CACNA2D2	NM_001005505;NM_006030	cg21075593R	Body;Body	cg21075593
		cg21075680R		cg21075680
ATP6V1C2;ATP6V1C2	NM_001039362;NM_144583	cg21076935F	TSS200;TSS200	cg21076935
		cg21078108R		cg21078108
BNIP1;BNIP1;BNIP1;BNI	NM_013980;NM_001205;NM	cg21080251R	TSS1500;TSS1500;TSS1	cg21080251
FGB	NM_005141	cg21082050F	1stExon	cg21082050
COL6A3;COL6A3;COL6A	NM_004369;NM_057166;NM	cg21082678F	Body;Body;Body	cg21082678
CALM1	NM_006888	cg21086878R	TSS1500	cg21086878
TMEFF1	NM_003692	cg21089453F	TSS200	cg21089453
SIRPB2;SIRPB2	NM_001134836;NM_001122	cg21090064F	3'UTR;3'UTR	cg21090064
LRCH1;LRCH1;LRCH1	NM_015116;NM_001164213	cg21090182F	Body;Body;Body	cg21090182
ALG13;ALG13;ALG13;ALNR	_033127;NR_033128;NM	cg21090723R	Body;Body;Body;Body;B	cg21090723
CFB	NM_001710	cg21092021F	Body	cg21092021
ASPG	NM_001080464	cg21092030R	Body	cg21092030
		cg21093670R		cg21093670
B3GNTL1	NM_001009905	cg21094737F	Body	cg21094737
C11orf63;C11orf63	NM_199124;NM_024806	cg21095553F	TSS200;TSS200	cg21095553
		cg21096907F		cg21096907
DPP6;DPP6;DPP6	NM_001936;NM_130797;NM	cg21097820F	Body;Body;Body	cg21097820
RNASE3	NM_002935	cg21099111F	TSS1500	cg21099111
FZD5	NM_003468	cg21100734R	TSS200	cg21100734
ATOX1;ATOX1	NM_004045;NM_004045	cg21101222R	5'UTR;1stExon	cg21101222
HGFAC	NM_001528	cg21105620R	Body	cg21105620
		cg21106695R		cg21106695
MPI	NM_002435	cg21107223R	Body	cg21107223
MEGF6	NM_001409	cg21108519R	Body	cg21108519
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg21110711F	Body;Body;Body	cg21110711
FBXL12	NM_017703	cg21112148F	Body	cg21112148
psiTPTE22	NR_001591	cg21113094F	Body	cg21113094

STAG3;GPC2	NM_012447;NM_152742	cg21113846R cg21123656R cg21125095R	TSS1500;TSS200	cg21113846 cg21123656 cg21125095
TAF2;DSCC1	NM_003184;NM_024094	cg21125452R	TSS1500;3'UTR	cg21125452
SOD2;SOD2;SOD2	NM_001024466;NM_000636	cg21126118R cg21126306F cg21134501R	Body;Body;Body	cg21126118 cg21126306 cg21134501
ZNF80;ZNF80	NM_007136;NM_007136	cg21137173R	3'UTR;1stExon	cg21137173
PILRA;PILRA;PILRA	NM_013439;NM_178272;NM_0139485F	cg21139485F cg21139935F	Body;Body;Body	cg21139485 cg21139935
ZBTB1	NM_014950	cg21139941F	Body	cg21139941
SS18L2	NM_016305	cg21140054R	1stExon	cg21140054
ITPR1;ITPR1;EGOT;ITPR	NM_002222;NM_00109952	cg21142512F	Body;Body;Body;Body	cg21142512
BTBD2	NM_017797	cg21144940F	Body	cg21144940
CDH9	NM_016279	cg21146184F cg21150053F cg21152376R	TSS1500	cg21146184 cg21150053 cg21152376
BIN3	NM_018688	cg21156815F cg21158526F	TSS200	cg21156815 cg21158526
PSIP1;PSIP1;PSIP1;PSIP1	NM_021144;NM_021144;NM_02159473R	cg21159473R	1stExon;5'UTR;5'UTR;5'UTR	cg21159473
PRDM16;PRDM16	NM_022114;NM_199454	cg21160149R	Body;Body	cg21160149
NKX2-5;NKX2-5;NKX2-5	NM_001166176;NM_001166	cg21165027F	TSS1500;TSS1500;TSS1500	cg21165027
TCF19;TCF19	NM_001077511;NM_007109	cg21165793R cg21167612R	Body;Body	cg21165793 cg21167612
PTCH2;PTCH2	NM_001166292;NM_003738	cg21167628R	TSS200;TSS200	cg21167628
STON2	NM_033104	cg21169762F cg21173221R	Body	cg21169762 cg21173221
CCND2	NM_001759	cg21177064R	3'UTR	cg21177064
LOC286359	NR_026847	cg21177384R	Body	cg21177384
FAM159B	NM_001164442	cg21179412R cg21181562F cg21182416F	Body	cg21179412 cg21181562 cg21182416
FGD6	NM_018351	cg21182715R	Body	cg21182715
KCNQ2;KCNQ2;KCNQ2;KCNQ2	NM_172108;NM_172106;NM_172106;NM_172106	cg21183165R	Body;Body;Body;Body	cg21183165
ZNF521	NM_015461	cg21183523R	Body	cg21183523
EGFL7;EGFL7	NM_201446;NM_016215	cg21184800R	5'UTR;5'UTR	cg21184800
COQ10B	NM_025147	cg21184926R	TSS200	cg21184926
CAMSAP1	NM_015447	cg21185154R	Body	cg21185154
ZBTB5	NM_014872	cg21185320R cg21189477F	TSS1500	cg21185320 cg21189477
GTF3C5;GTF3C5	NM_001122823;NM_012087	cg21191275R cg21191508F	Body;Body	cg21191275 cg21191508
GPR137C;TXNDC16;TXNDC16	NM_001099652;NM_0011160	cg21192376F	1stExon;TSS1500;TSS1500	cg21192376
SIRT6	NM_016539	cg21192671R	Body	cg21192671
MCF2L2	NM_015078	cg21200353F	Body	cg21200353
TMEM134;TMEM134;TMEM134	NM_025124;NM_025124;NM_025124	cg21204379F cg21205222F	1stExon;5'UTR;1stExon;5'UTR	cg21204379 cg21205222
PPIE;PPIE;PPIE	NM_203457;NM_203456;NM_203456	cg21206770R	TSS1500;TSS1500;TSS1500	cg21206770
RAB1F	NM_002871	cg21208943R	TSS1500	cg21208943
JUB;JUB	NM_032876;NM_198086	cg21209876F	Body;TSS1500	cg21209876
RNF207	NM_207396	cg21210232R	Body	cg21210232
MEGF6	NM_001409	cg21212196R	Body	cg21212196
EPB49;EPB49;EPB49;EPB49	NM_001114135;NM_001114	cg21212977F cg21214449R	5'UTR;5'UTR;5'UTR;5'UTR	cg21212977 cg21214449

MIR1470;WIZ	NR_031716;NM_021241	cg21216606R	TSS1500;5'UTR	cg21216606
ADARB1;ADARB1;ADARNM_015833;NM_001160230		cg21216828R	5'UTR;5'UTR;5'UTR;Bo	cg21216828
NR1H4	NM_005123	cg21217129R	Body	cg21217129
		cg21218646F		cg21218646
		cg21220403R		cg21220403
		cg21221545R		cg21221545
TMEM97	NM_014573	cg21222244F	Body	cg21222244
MOG;MOG;MOG;MOG;MNM_206813;NM_002433;NM_002433		cg21224669R	3'UTR;3'UTR;3'UTR;3'Uc	cg21224669
ZFYVE1;ZFYVE1	NM_021260;NM_178441	cg21229135R	Body;Body	cg21229135
UBAP1;UBAP1;UBAP1;UBAP1	NM_016525;NM_001171203	cg21231853F	5'UTR;5'UTR;Body;Bod	cg21231853
EP400NL	NR_003290	cg21233252F	Body	cg21233252
DOCK2	NM_004946	cg21233722R	Body	cg21233722
RFPL2;RFPL2;RFPL2;RFPNM_001098527;NM_001159		cg21235359R	1stExon;5'UTR;5'UTR;T	cg21235359
VAV2;VAV2	NM_001134398;NM_003371	cg21245618R	Body;Body	cg21245618
MAL;MAL;MAL;MAL	NM_022438;NM_022439;NM_022439	cg21245652F	TSS1500;TSS1500;TSS1500	cg21245652
		cg21249595F		cg21249595
C9orf116;MRPS2;C9orf116	NM_001048265;NM_016034	cg21249729R	TSS1500;Body;TSS1500	cg21249729
CLEC7A;CLEC7A;CLEC7	NM_197954;NM_022570;NM_022570	cg21250433F	TSS1500;TSS1500;TSS1500	cg21250433
		cg21251791F		cg21251791
GML	NM_002066	cg21251926R	TSS200	cg21251926
		cg21260733F		cg21260733
		cg21267498F		cg21267498
		cg21271015F		cg21271015
		cg21272713R		cg21272713
OLFM2	NM_058164	cg21276056F	Body	cg21276056
RHBDF2;RHBDF2	NM_001005498;NM_024599	cg21280422R	Body;Body	cg21280422
KIAA1324	NM_020775	cg21282282R	Body	cg21282282
HSD17B1	NM_000413	cg21282998F	TSS1500	cg21282998
		cg21289995R		cg21289995
C1orf93;C1orf93	NM_152371;NM_152371	cg21290290R	5'UTR;1stExon	cg21290290
		cg21291759F		cg21291759
		cg21293562R		cg21293562
BECN1	NM_003766	cg21295398R	TSS1500	cg21295398
BOLL;BOLL	NM_197970;NM_033030	cg21300403R	Body;TSS200	cg21300403
RAP1A;RAP1A	NM_001010935;NM_002884	cg21302420R	TSS200;TSS200	cg21302420
C11orf2	NM_013265	cg21305021F	Body	cg21305021
KCNH6;KCNH6	NM_030779;NM_173092	cg21308809F	Body;Body	cg21308809
		cg21312281R		cg21312281
APLF	NM_173545	cg21312337R	Body	cg21312337
		cg21313729F		cg21313729
RUNDC1	NM_173079	cg21314304F	Body	cg21314304
		cg21314978R		cg21314978
ABLIM2;ABLIM2;ABLIM2	NM_032432;NM_001130083	cg21318019F	Body;Body;Body;Body;	cg21318019
LOC283731;ISLR2;ISLR2	NR_027073;NM_001130136;	cg21322819R	Body;TSS1500;TSS1500	cg21322819
NCRNA00171	NR_026751	cg21323836R	Body	cg21323836
MIR548A2	NR_030317	cg21324884R	Body	cg21324884
KIAA0895;KIAA0895	NM_015314;NM_001100425	cg21326011R	Body;Body	cg21326011
THEMIS;THEMIS;THEMIS	NM_001164687;NM_001010	cg21326251F	5'UTR;Body;Body	cg21326251
APBB2;APBB2;APBB2	NM_004307;NM_173075;NM_173075	cg21330088R	5'UTR;5'UTR;5'UTR	cg21330088
		cg21331386R		cg21331386
TBL1XR1	NM_024665	cg21339170F	Body	cg21339170
		cg21340320F		cg21340320
ACSM4	NM_001080454	cg21343895F	TSS1500	cg21343895
TGIF1;TGIF1	NM_174886;NM_173207	cg21346639F	5'UTR;TSS200	cg21346639

SPEG	NM_005876	cg21347733F cg21348357R cg21349914R	Body	cg21347733 cg21348357 cg21349914
CASC4;CASC4;CASC4;CANM_138423;NM_177974;NM_KLHL29	NM_052920	cg21350100R cg21350621F	5'UTR;1stExon;5'UTR;1stExon;5'UTR	cg21350100 cg21350621
LRRC27;LRRC27;LRRC27	NM_001143757;NM_030626	cg21350697F	Body;Body;Body;Body;	cg21350697
AGPAT4	NM_020133	cg21351392F	Body	cg21351392
GPR84	NM_020370	cg21351852F cg21352393R	TSS1500	cg21351852 cg21352393
CYS1	NM_001037160	cg21352837F	Body	cg21352837
ARHGAP22	NM_021226	cg21355487R	Body	cg21355487
TRPC4;TRPC4;TRPC4;TR	NM_001135958;NM_001135	cg21358429F	5'UTR;5'UTR;5'UTR;5'UTR	cg21358429
RASA3	NM_007368	cg21364828R	Body	cg21364828
GBP4	NM_052941	cg21365602F	Body	cg21365602
SCGN	NM_006998	cg21367769R	TSS1500	cg21367769
CSNK1D;CSNK1D	NM_001893;NM_139062	cg21369801R	Body;3'UTR	cg21369801
LOC145845	NR_024264	cg21375869R	Body	cg21375869
SFMBT2	NM_001029880	cg21377158R cg21379953F	Body	cg21377158 cg21379953
GLCCI1	NM_138426	cg21380380R	Body	cg21380380
HS1BP3	NM_022460	cg21383284R cg21385522F	Body	cg21383284 cg21385522
GRK1;GRK1	NM_002929;NM_002929	cg21386586R cg21393163R	1stExon;5'UTR	cg21386586 cg21393163
STAG3;GPC2	NM_012447;NM_152742	cg21394081R cg21394688F cg21397124R	TSS1500;TSS200	cg21394081 cg21394688 cg21397124
CCDC7;CCDC7	NM_145023;NM_001026383	cg21399320R cg21399717R	Body;Body	cg21399320 cg21399717
KCTD2	NM_015353	cg21400851R cg21402096R	Body	cg21400851 cg21402096
PNPLA8	NM_015723	cg21403089R	TSS200	cg21403089
MYEOV2;MYEOV2	NM_138336;NM_001163424	cg21404933F	TSS1500;TSS1500	cg21404933
INTS9;INTS9;HMBOX1;HNR	026826;NM_001145159;	cg21406217R	TSS1500;TSS1500;5'UTR	cg21406217
C20orf20	NM_018270	cg21407906R	1stExon	cg21407906
PPM1M;PPM1M	NM_001122870;NM_144641	cg21408716F cg21411812R cg21416739F	TSS1500;TSS1500	cg21408716 cg21411812 cg21416739
GNB1	NM_002074	cg21422400R	Body	cg21422400
ICOS	NM_012092	cg21423458R	TSS1500	cg21423458
CUX2	NM_015267	cg21426559R cg21429615R	Body	cg21426559 cg21429615
CCDC48	NM_024768	cg21430959F	Body	cg21430959
TBC1D9	NM_015130	cg21434376F	Body	cg21434376
C17orf63;C17orf63	NM_018182;NM_001077498	cg21437722F cg21437865R cg21440339F	3'UTR;3'UTR	cg21437722 cg21437865 cg21440339
MRPL42;MRPL42;MRPL4	NM_014050;NM_172178;NM_0011441256	cg21441256F	3'UTR;3'UTR;3'UTR	cg21441256
RHOH	NM_004310	cg21441590R	3'UTR	cg21441590
RELL1;RELL1	NM_001085399;NM_001085	cg21444912F	TSS200;TSS200	cg21444912
PCGF3	NM_006315	cg21445527R cg21447989R	Body	cg21445527 cg21447989
MYT1L	NM_015025	cg21452447F	Body	cg21452447
FAM101A	NM_181709	cg21453309F	5'UTR	cg21453309

CD84	NM_003874	cg21454485R cg21459419F	Body	cg21454485 cg21459419
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg21459816F	Body;Body;Body	cg21459816
KCNQ3	NM_004519	cg21460403F cg21461748R cg21463554R cg21467203R cg21467365F	Body	cg21460403 cg21461748 cg21463554 cg21467203 cg21467365
PCYT1A	NM_005017	cg21470711F	Body	cg21470711
HTR7P	NR_002774	cg21472448F	Body	cg21472448
SLC36A3;SLC36A3	NM_001145017;NM_181774	cg21474842R	Body;Body	cg21474842
MSH5;MSH5;MSH5;MSH5	NM_172165;NM_025259;NM_025259;NM_025259	cg21485120R cg21485150R	1stExon;5'UTR;5'UTR;5'UTR	cg21485120 cg21485150
SLC7A5P1	NR_002593	cg21485906F cg21489565R	TSS200	cg21485906 cg21489565
TPRX1	NM_198479	cg21491365F	Body	cg21491365
BTBD11;BTBD11	NM_001017523;NM_001018	cg21500895R	TSS1500;Body	cg21500895
TMEM91;B9D2	NM_001098825;NM_030578	cg21500909R	5'UTR;TSS1500	cg21500909
KLHL14	NM_020805	cg21501358R cg21507636F	TSS200	cg21501358 cg21507636
RPTOR;RPTOR	NM_001163034;NM_020761	cg21507958F cg21508789F	Body;Body	cg21507958 cg21508789
AHSG;AHSG	NM_001622;NM_001622	cg21510841F	5'UTR;1stExon	cg21510841
SLC8A3;SLC8A3;SLC8A3	NM_183002;NM_182932;NM_182932	cg21512124F	TSS200;TSS200;TSS200	cg21512124
KCNJ14	NM_013348	cg21515032R cg21518287F cg21518299R	TSS1500	cg21515032 cg21518287 cg21518299
CRIM1	NM_016441	cg21520549R cg21520715R cg21523751F cg21524199F	Body	cg21520549 cg21520715 cg21523751 cg21524199
TPPP	NM_007030	cg21524356R	Body	cg21524356
RAP1GAP2;RAP1GAP2	NM_001100398;NM_015085	cg21526357F	TSS1500;TSS1500	cg21526357
SLC6A12;SLC6A12;SLC6A12	NM_001122848;NM_001122	cg21528927F cg21530210F cg21532408F	Body;Body;Body	cg21528927 cg21530210 cg21532408
MICALL2	NM_182924	cg21535156F cg21539678F	TSS200	cg21535156 cg21539678
LRCH4	NM_002319	cg21540367F cg21540970F cg21541272R	Body	cg21540367 cg21540970 cg21541272
GRAMD4	NM_015124	cg21546300F cg21546868F cg21549075F	Body	cg21546300 cg21546868 cg21549075
CRYAA	NM_000394	cg21549497R cg21549577F	3'UTR	cg21549497 cg21549577
KLHL26	NM_018316	cg21554109F cg21554139F cg21554723R	TSS200	cg21554109 cg21554139 cg21554723
SCARB1;SCARB1	NM_001082959;NM_005505	cg21558509F cg21561672F	Body;Body	cg21558509 cg21561672
VGLL4;VGLL4	NM_014667;NM_001128219	cg21562638R	Body;TSS1500	cg21562638
FAM19A5;FAM19A5	NM_015381;NM_001082967	cg21564495F	Body;Body	cg21564495
TTLL1;TTLL1	NR_027779;NM_012263	cg21564803F	TSS200;TSS200	cg21564803

FAS;FAS;FAS;FAS;FAS;ANM_152872;NM_152871;NM_152872		cg21565150R	Body;Body;Body;Body;Body;Body	cg21565150
MUPCDH;MUPCDH	NM_021924;NM_031264	cg21565415R	Body;Body	cg21565415
		cg21566081R		cg21566081
C13orf31;C13orf31	NM_153218;NM_001128303	cg21566278F	3'UTR;3'UTR	cg21566278
NQO2	NM_000904	cg21571245F	Body	cg21571245
ASH1L	NM_018489	cg21571423R	5'UTR	cg21571423
FOXN3	NM_001085471	cg21571793F	5'UTR	cg21571793
CD80	NM_005191	cg21572897R	5'UTR	cg21572897
		cg21572957R		cg21572957
SLC6A9;SLC6A9;SLC6A9	NM_001024845;NM_201649	cg21573263F	Body;1stExon;5'UTR;1st	cg21573263
FRMD5	NM_032892	cg21573796F	Body	cg21573796
		cg21576503F		cg21576503
HCN2	NM_001194	cg21578640R	1stExon	cg21578640
SLC5A4	NM_014227	cg21578906F	TSS200	cg21578906
GRTP1	NM_024719	cg21579294R	Body	cg21579294
MLL2	NM_003482	cg21580220R	Body	cg21580220
LOC723972	NR_003144	cg21581312R	TSS200	cg21581312
		cg21584823F		cg21584823
PSMB8;PSMB8	NM_004159;NM_148919	cg21593554R	Body;Body	cg21593554
SLC34A2	NM_006424	cg21593669F	Body	cg21593669
DHX37	NM_032656	cg21593923R	Body	cg21593923
POU2F2	NM_002698	cg21596498R	Body	cg21596498
NOTCH4	NM_004557	cg21597802F	Body	cg21597802
INO80	NM_017553	cg21598047R	TSS1500	cg21598047
TRAM1L1;TRAM1L1	NM_152402;NM_152402	cg21599230F	1stExon;5'UTR	cg21599230
GRM4	NM_000841	cg21599324R	Body	cg21599324
DAZAP1;DAZAP1	NM_018959;NM_170711	cg21603006R	Body;Body	cg21603006
YIF1B;YIF1B;YIF1B;YIF1B	NM_001145462;NM_001039	cg21603537F	Body;Body;Body;Body;3'	cg21603537
		cg21603744R		cg21603744
SGIP1	NM_032291	cg21604450R	TSS1500	cg21604450
		cg21604611R		cg21604611
		cg21606226F		cg21606226
		cg21606744F		cg21606744
SLC6A1	NM_003042	cg21611775F	5'UTR	cg21611775
GCLC	NM_001498	cg21613175R	3'UTR	cg21613175
ATP11A;ATP11A	NM_015205;NM_032189	cg21614491R	Body;Body	cg21614491
SCG2	NM_003469	cg21616047F	TSS1500	cg21616047
SSH1;SSH1	NM_001161330;NM_018984	cg21616405F	Body;Body	cg21616405
TMEM173	NM_198282	cg21618694F	TSS1500	cg21618694
KCNK5	NM_003740	cg21619775F	Body	cg21619775
		cg21619883R		cg21619883
SYNPO	NM_007286	cg21627072F	Body	cg21627072
SLC17A4	NM_005495	cg21627181F	TSS1500	cg21627181
CGB;CGB	NM_000737;NM_000737	cg21629842R	1stExon;5'UTR	cg21629842
INCENP;INCENP	NM_020238;NM_001040694	cg21636168R	Body;Body	cg21636168
		cg21637865R		cg21637865
C19orf75	NM_173635	cg21639436F	3'UTR	cg21639436
ZNF547;TRAPPC2P1	NM_173631;NR_002166	cg21643513R	TSS1500;TSS1500	cg21643513
		cg21647407R		cg21647407
NUP153	NM_005124	cg21647752F	TSS1500	cg21647752
TSPAN31	NM_005981	cg21648012R	3'UTR	cg21648012
CD8A;CD8A;CD8A;CD8A	NM_001145873;NM_001768	cg21648425F	5'UTR;TSS1500;TSS1500	cg21648425
HDAC4	NM_006037	cg21649361F	Body	cg21649361
NDUFA3	NM_004542	cg21653878F	TSS200	cg21653878



CCDC137	NM_199287	cg21654058R	3'UTR	cg21654058
SUDS3;SUDS3	NM_022491;NM_022491	cg21654404R	1stExon;5'UTR	cg21654404
BZW2;BZW2;BZW2	NR_027624;NM_001159767;cg21660861F		Body;5'UTR;5'UTR	cg21660861
DNASE1L3	NM_004944	cg21661111F	TSS1500	cg21661111
WDR53;FBXO45;FBXO45	NM_182627;NM_001105573	cg21665057R	TSS1500;1stExon;5'UTR	cg21665057
		cg21668231R		cg21668231
LRRC16A	NM_017640	cg21668832F	TSS1500	cg21668832
		cg21670717F		cg21670717
DRD2;DRD2	NM_016574;NM_000795	cg21671386F	3'UTR;3'UTR	cg21671386
		cg21672401R		cg21672401
LOC401010	NR_002826	cg21673175F	TSS200	cg21673175
JAZF1	NM_175061	cg21679509F	Body	cg21679509
MEPCE;ZCWPW1	NM_019606;NM_017984	cg21679810R	TSS200;TSS1500	cg21679810
CUL3	NM_003590	cg21679969F	Body	cg21679969
LEPR;LEPR;LEPR	NM_001003679;NM_002303	cg21683619R	Body;Body;Body	cg21683619
ATL2;ATL2;ATL2	NM_022374;NM_001135673	cg21684318F	3'UTR;Body;Body	cg21684318
RNF220	NM_018150	cg21686694F	TSS1500	cg21686694
SLC2A5	NR_024180	cg21689824F	Body	cg21689824
SLC25A17	NM_006358	cg21694044F	TSS200	cg21694044
		cg21694626F		cg21694626
		cg21697794F		cg21697794
FLNA;FLNA	NM_001456;NM_001110556	cg21699341R	TSS1500;TSS1500	cg21699341
		cg21705600F		cg21705600
GRK1	NM_002929	cg21710060R	1stExon	cg21710060
		cg21710066F		cg21710066
		cg21720999F		cg21720999
		cg21723861F		cg21723861
CSAD;ZNF740	NM_015989;NM_001004304	cg21730710R	TSS200;TSS200	cg21730710
CCDC39;CCDC39	NM_181426;NM_181426	cg21733911R	5'UTR;1stExon	cg21733911
SIPA1L3	NM_015073	cg21739049R	Body	cg21739049
		cg21747473R		cg21747473
MBTD1;UTP18	NM_017643;NM_016001	cg21749091R	TSS1500;Body	cg21749091
		cg21749456F		cg21749456
		cg21755487F		cg21755487
		cg21757951R		cg21757951
PSENNEN;U2AF1L4;U2AF	NM_172341;NM_144987;NM_001105573	cg21767207F	TSS200;TSS200;TSS200	cg21767207
NUDT3	NM_006703	cg21769444F	TSS1500	cg21769444
CAMTA1	NM_015215	cg21772773R	Body	cg21772773
DMRTA2	NM_032110	cg21774338R	3'UTR	cg21774338
UBE3C	NM_014671	cg21774865F	Body	cg21774865
IGF2R	NM_000876	cg21774926F	TSS1500	cg21774926
ZNF566;ZNF566;ZNF566;	NM_001145343;NM_032838	cg21775899R	TSS200;TSS200;TSS200	cg21775899
		cg21777089R		cg21777089
FLJ39609	NR_026874	cg21786289R	TSS200	cg21786289
CIB2	NM_006383	cg21788396R	TSS200	cg21788396
		cg21794518F		cg21794518
IL1RAP;IL1RAP;IL1RAP;	NM_001167931;NM_001167	cg21798630F	Body;Body;Body;Body	cg21798630
MNT	NM_020310	cg21798832R	Body	cg21798832
		cg21800258F		cg21800258
SLC2A13	NM_052885	cg21803141F	Body	cg21803141
C14orf143	NM_145231	cg21804531F	Body	cg21804531
TIMM8B;SDHD;TIMM8B	NM_012459;NM_003002;NR_001105573	cg21806233R	Body;TSS1500;Body	cg21806233
		cg21806669R		cg21806669
		cg21807594F		cg21807594

C4B;C4A	NM_001002029;NM_007293	cg21808937F cg21811021R	Body;Body	cg21808937 cg21811021
ZNF735	NM_001159524	cg21811549R	1stExon	cg21811549
SNORD45C;RABGGTB	NR_003042;NM_004582	cg21812670F cg21813377R	TSS1500;TSS1500	cg21812670 cg21813377
BRD1	NM_014577	cg21821726F	Body	cg21821726
EHD4	NM_139265	cg21824733R cg21825397F	Body	cg21824733 cg21825397
ASPSR1	NM_024083	cg21828197R cg21839856R cg21841501R cg21844726F	Body	cg21828197 cg21839856 cg21841501 cg21844726
C14orf143	NM_145231	cg21845226F	Body	cg21845226
OTOR	NM_020157	cg21845297F	TSS1500	cg21845297
BACE2;PLAC4;BACE2;B	NM_012105;NM_182832;NM_001164	cg21845373F	Body;TSS200;Body;Body	cg21845373
HOXB3	NM_002146	cg21853871F cg21857846F	Body	cg21853871 cg21857846
NUP62CL	NM_017681	cg21863326R	5'UTR	cg21863326
ST6GALNAC3;ST6GALN	NM_152996;NM_001160011	cg21867608F	Body;Body	cg21867608
FLNB;FLNB;FLNB;FLNB	NM_001164319;NM_001164	cg21869590R	Body;Body;Body;Body	cg21869590
CLMN	NM_024734	cg21871232F	Body	cg21871232
XCL1	NM_002995	cg21872093F cg21873524R cg21875096R cg21875156F cg21875401R	TSS1500	cg21872093 cg21873524 cg21875096 cg21875156 cg21875401
ADAMTS6	NM_197941	cg21878650F	Body	cg21878650
C1orf25;C1orf26;C1orf26	NM_030934;NM_017673;NM_001164	cg21879320R	1stExon;TSS1500;TSS1500	cg21879320
JAG2;JAG2	NM_002226;NM_145159	cg21880128R cg21880422R cg21882037R	Body;Body	cg21880128 cg21880422 cg21882037
MIR654;MIR300;MIR376	NR_030390;NR_030582;NR_030582	cg21882238F cg21886186F	Body;TSS1500;TSS1500	cg21882238 cg21886186
RHOG	NM_001665	cg21887246F	TSS200	cg21887246
ISPD;ISPD	NM_001101417;NM_001101	cg21888978R	3'UTR;3'UTR	cg21888978
TMEM68	NM_152417	cg21889078R cg21889519R cg21890303R cg21895377F	Body	cg21889078 cg21889519 cg21890303 cg21895377
AGAP3;AGAP3	NM_001042535;NM_031946	cg21900829F	Body;Body	cg21900829
LOC646762	NR_024278	cg21902160R	Body	cg21902160
LARP4;LARP4;LARP4;LARP4	NM_001170803;NM_199188	cg21902817F	TSS1500;TSS1500;TSS1500	cg21902817
LY9;LY9	NM_001033667;NM_002348	cg21906083F	3'UTR;Body	cg21906083
SAMD4B	NM_018028	cg21911861R	TSS1500	cg21911861
MAP1B	NM_005909	cg21912162R cg21915337R	Body	cg21912162 cg21915337
HAVCR1;HAVCR1	NM_012206;NM_001099414	cg21915449F cg21917512R	3'UTR;3'UTR	cg21915449 cg21917512
TAPT1	NM_153365	cg21918419R	Body	cg21918419
GPR109A	NM_177551	cg21919903F	TSS1500	cg21919903
FOXG1	NM_005249	cg21923619R	TSS1500	cg21923619
POU2AF1	NM_006235	cg21923959R cg21925465F	TSS1500	cg21923959 cg21925465
EPCAM;EPCAM	NM_002354;NM_002354	cg21926875R	5'UTR;1stExon	cg21926875

RBM34;RBM34;RBM34 GJC1;GJC1	NR_027762;NM_015014;NM_005497;NM_001080383	cg21929761F cg21930061F cg21930286R cg21930889R cg21934337R	Body;Body;Body TSS1500;TSS1500	cg21929761 cg21930061 cg21930286 cg21930889 cg21934337
HCN1 CSPG5 CDC42BPB PTPN12;PTPN12;PTPN12	NM_021072 NM_006574 NM_006035 NM_001131009;NM_001131	cg21935402F cg21936789R cg21937244R cg21937734F cg21938149R cg21942532F cg21943418F	Body TSS200 Body Body;Body;Body	cg21935402 cg21936789 cg21937244 cg21937734 cg21938149 cg21942532 cg21943418
C1orf125 GUK1;GUK1 RUFY1 RPS15;RPS15 PHF17;PHF17 AFF3;AFF3 RFX4 PYROXD1	NM_144696 NM_001159390;NM_000858 NM_025158 NM_001018;NM_001018 NM_024900;NM_199320 NM_001025108;NM_002285 NM_213594 NM_024854	cg21943599F cg21950196F cg21951679R cg21956150F cg21959036F cg21959618F cg21961487R cg21962791R cg21969548F cg21969884F	TSS1500 TSS1500;TSS1500 1stExon 5'UTR;1stExon 5'UTR;5'UTR Body;Body Body TSS1500	cg21943599 cg21950196 cg21951679 cg21956150 cg21959036 cg21959618 cg21961487 cg21962791 cg21969548 cg21969884
TFF3 SIGLECP3 TMEM53	NM_003226 NR_002804 NM_024587	cg21970261R cg21982437R cg21983178R cg21984129F cg21984793F	TSS200 TSS200 Body	cg21970261 cg21982437 cg21983178 cg21984129 cg21984793
AFF1;AFF1 SLC15A3;SLC15A3 MBOAT2 KLHDC8A TPO;TPO;TPO;TPO C7orf50;C7orf50;C7orf50 RICS	NM_001166693;NM_005935 NM_016582;NR_027391 NM_138799 NM_018203 NM_175719;NM_000547;NM_001134395;NM_032350 NM_001142685	cg21988461F cg21992250R cg21992696R cg21996351F cg21997141F cg22000692F cg22001073R cg22004705F	Body;Body 1stExon;Body Body TSS200 Body;Body;Body;Body Body;Body;Body Body	cg21988461 cg21992250 cg21992696 cg21996351 cg21997141 cg22000692 cg22001073 cg22004705
ATP11A;ATP11A LRRC42;HSPB11 GHR GNMT BAT2;BAT2 ANKDD1A	NM_015205;NM_032189 NM_052940;NM_016126 NM_000163 NM_018960 NM_080686;NM_080686 NM_182703	cg22010909R cg22015030F cg22016770R cg22017132F cg22017797R cg22021768F cg22026150R	Body;Body TSS1500;TSS200 5'UTR TSS1500 5'UTR;1stExon 3'UTR	cg22010909 cg22015030 cg22016770 cg22017132 cg22017797 cg22021768 cg22026150
ZFYVE28 KBTBD11	NM_020972 NM_014867	cg22029856F cg22030181R cg22030214R cg22030501F	Body 5'UTR	cg22029856 cg22030181 cg22030214 cg22030501
PDGFRB MAP2 EIF1AX PFDN1	NM_002609 NM_001039538 NM_001412 NM_002622	cg22032789F cg22036003R cg22037115R cg22037779F cg22040867F	Body 5'UTR Body TSS200	cg22032789 cg22036003 cg22037115 cg22037779 cg22040867
MPL TMED7-TICAM2;TICAM2 MPZL1;MPZL1;MPZL1	NM_005373 NM_001164468;NM_021649 NM_001146191;NM_003953	cg22041446R cg22043118F cg22045055F	TSS1500 3'UTR;3'UTR;3'UTR Body;Body;Body	cg22041446 cg22043118 cg22045055

C10orf91	NM_173541	cg22045288R	TSS1500	cg22045288
GAK	NM_005255	cg22046966R	Body	cg22046966
PTK7;PTK7;PTK7;PTK7	NM_002821;NM_152881;NM_152881	cg22053720F	Body;Body;Body;Body	cg22053720
HOXA9	NM_152739	cg22055728F	TSS1500	cg22055728
PRR22;PRR22;PRR22	NM_001134316;NM_153359	cg22056870R	1stExon;TSS200;5'UTR	cg22056870
ROBO2;ROBO2	NM_001128929;NM_002942	cg22066262F	Body;Body	cg22066262
UBTD2	NM_152277	cg22068822R	Body	cg22068822
TRIM46	NM_025058	cg22072829R	3'UTR	cg22072829
HHIPL2	NM_024746	cg22076769F	Body	cg22076769
HAUS8;MYO9B;MYO9B;MYO9B	NM_001011699;NM_001130	cg22081355R	TSS200;TSS200;TSS200	cg22081355
CPNE6	NM_006032	cg22082462R	TSS1500	cg22082462
ANO1;ANO1	NM_018043;NR_030691	cg22082706F	Body;Body	cg22082706
AFF3;AFF3	NM_001025108;NM_002285	cg22092126R	Body;Body	cg22092126
		cg22095238R		cg22095238
C15orf42	NM_152259	cg22095582F	Body	cg22095582
ANO9	NM_001012302	cg22098317F	Body	cg22098317
		cg22100652R		cg22100652
SIRT5;SIRT5	NM_012241;NM_031244	cg22100852F	5'UTR;5'UTR	cg22100852
		cg22103003R		cg22103003
		cg22103441R		cg22103441
POM121C	NM_001099415	cg22106284R	Body	cg22106284
		cg22108909F		cg22108909
LAP3	NM_015907	cg22109262F	TSS200	cg22109262
		cg22111694F		cg22111694
DCTN4;DCTN4;DCTN4	NM_001135644;NM_016221	cg22117193F	Body;Body;Body	cg22117193
ESRRG	NM_001134285	cg22118524F	TSS1500	cg22118524
KCND2	NM_012281	cg22121237F	1stExon	cg22121237
RB1CC1;RB1CC1	NM_014781;NM_001083617	cg22122414R	TSS200;TSS200	cg22122414
ACR	NM_001097	cg22122449R	1stExon	cg22122449
		cg22123804F		cg22123804
CYR61	NM_001554	cg22123915R	Body	cg22123915
FRMD4B	NM_015123	cg22125112F	Body	cg22125112
		cg22125176F		cg22125176
FAM176A;FAM176A	NM_032181;NM_001135032	cg22129183F	5'UTR;5'UTR	cg22129183
VAMP1;VAMP1;VAMP1	NM_199245;NM_014231;NM_014231	cg22129323F	3'UTR;3'UTR;Body	cg22129323
IPCEF1;IPCEF1;IPCEF1	NM_001130700;NM_015553	cg22131726F	5'UTR;5'UTR;5'UTR	cg22131726
		cg22132508F		cg22132508
		cg22138564R		cg22138564
MAP2K5;MAP2K5	NM_145160;NM_002757	cg22139212F	Body;Body	cg22139212
CCDC57	NM_198082	cg22142205F	Body	cg22142205
SNORD17;SNX5;SNX5	NR_003045;NM_014426;NM_014426	cg22145445R	TSS1500;Body;Body	cg22145445
UGT1A10;UGT1A6;UGT1A6	NM_019075;NM_205862;NM_205862	cg22145666F	Body;Body;Body;Body;	cg22145666
PTPRS;PTPRS;PTPRS;PTPNM	NM_130855;NM_002850;NM_002850	cg22151985F	Body;Body;Body;Body	cg22151985
		cg22152082R		cg22152082
SACS	NM_014363	cg22155325F	Body	cg22155325
RGS14	NM_006480	cg22155724F	Body	cg22155724
COMMD1	NM_152516	cg22156600F	Body	cg22156600
RBPMS2;RBPMS2	NM_194272;NM_194272	cg22159557R	1stExon;5'UTR	cg22159557
		cg22159716R		cg22159716
RHOC;RHOC;RHOC;RHONM	NM_001042679;NM_175744	cg22162010R	TSS1500;5'UTR;1stExon	cg22162010
EHBP1;EHBP1;EHBP1;EHNM	NM_001142614;NM_001142	cg22162225R	TSS1500;5'UTR;TSS200	cg22162225
SHC2	NM_012435	cg22163854F	Body	cg22163854
SHC2	NM_012435	cg22165700R	Body	cg22165700
STX10	NM_003765	cg22167093F	Body	cg22167093

NLRC3	NM_178844	cg22169449F cg22171142F cg22175764F cg22176131R cg22188703F	TSS200	cg22169449 cg22171142 cg22175764 cg22176131 cg22188703
LOC338758	NR_028138	cg22199115R	TSS200	cg22199115
C20orf30;C20orf30;C20orf30	NM_001009925;NM_001010092	cg22199361R	Body;Body;Body;Body	cg22199361
SNRPB2;SNRPB2	NM_198220;NM_003092	cg22209105R	5'UTR;5'UTR	cg22209105
OR8U8	NM_001013356	cg22211749F	Body	cg22211749
SNTA1;SNTA1	NM_003098;NM_003098	cg22212156F cg22212542F	5'UTR;1stExon	cg22212156 cg22212542
ACSS1;ACSS1	NM_032501;NM_032501	cg22215340F	1stExon;5'UTR	cg22215340
IQSEC1;IQSEC1	NM_001134382;NM_014869	cg22215392F cg22215836R	Body;Body	cg22215392 cg22215836
NRIP2	NM_031474	cg22216431R	3'UTR	cg22216431
PAWR	NM_002583	cg22220502R	Body	cg22220502
RASGRP4;RASGRP4;RASGRP4	NM_001146204;NM_001146204	cg22221067F	3'UTR;3'UTR;3'UTR;3'UTR	cg22221067
CTPS	NM_001905	cg22224597R	TSS200	cg22224597
GCAT	NM_014291	cg22225685R	1stExon	cg22225685
ADARB1;ADARB1;ADARB1	NM_015833;NM_001160230	cg22226852F	5'UTR;5'UTR;5'UTR;5'UTR	cg22226852
DTNA;DTNA;DTNA	NM_032975;NM_032980;NM_032980	cg22227168R cg22227726F cg22227747R	3'UTR;3'UTR;3'UTR	cg22227168 cg22227726 cg22227747
OXNAD1	NM_138381	cg22230912R	Body	cg22230912
UPK1A	NM_007000	cg22232695F	TSS1500	cg22232695
PRKAR1B;PRKAR1B;PRKAR1B	NM_001164759;NM_001164759	cg22234154F	Body;Body;Body;Body;	cg22234154
KCNAB2;KCNAB2	NM_003636;NM_172130	cg22235088F	Body;Body	cg22235088
C6orf25;C6orf25;C6orf25;	NM_138274;NM_138273;NM_138273	cg22235293F cg22237300R	Body;Body;Body;Body;	cg22235293 cg22237300
LOC100329109	NR_033248	cg22238304F	TSS200	cg22238304
PRHOXNB	NM_001105577	cg22240515R	Body	cg22240515
STK11	NM_000455	cg22240650R	Body	cg22240650
GNAT1;GNAT1	NM_144499;NM_000172	cg22241014R	TSS1500;TSS1500	cg22241014
SYNJ2	NM_003898	cg22242614F cg22244986F cg22247041R	Body	cg22242614 cg22244986 cg22247041
CBX8	NM_020649	cg22254299F	TSS1500	cg22254299
SLC6A6;SLC6A6;SLC6A6	NM_001134368;NM_003043	cg22254681F	TSS200;TSS200;TSS200	cg22254681
RCBTB2	NM_001268	cg22255690F	Body	cg22255690
GLB1L3	NM_001080407	cg22256309F cg22258490F	Body	cg22256309 cg22258490
BAI1	NM_001702	cg22258527R	Body	cg22258527
SETBP1	NM_001130110	cg22263405F	TSS1500	cg22263405
SYNGR1	NM_004711	cg22263548F	Body	cg22263548
SOST	NM_025237	cg22264436F	TSS1500	cg22264436
WDR60	NM_018051	cg22264813R	Body	cg22264813
NDEL1;NDEL1	NM_030808;NM_001025579	cg22271113F	3'UTR;3'UTR	cg22271113
MRM1	NM_024864	cg22272508F cg22273182R cg22274230R cg22276047R	Body	cg22272508 cg22273182 cg22274230 cg22276047
NEBL	NM_213569	cg22278087R	Body	cg22278087
EFHA1	NM_152726	cg22280671F	Body	cg22280671
INPP5J	NM_001002837	cg22281206R	Body	cg22281206

		cg22288316F		cg22288316
PGS1	NM_024419	cg22290140R	3'UTR	cg22290140
LTV1	NM_032860	cg22290704R	Body	cg22290704
RAI1	NM_030665	cg22292753F	5'UTR	cg22292753
KCNQ1;KCNQ1	NM_000218;NM_181798	cg22296808F	Body;Body	cg22296808
ABLIM2;ABLIM2;ABLIM2	NM_032432;NM_001130083	cg22301854R	Body;Body;Body;Body;	cg22301854
WNT7B	NM_058238	cg22306173F	Body	cg22306173
		cg22308926F		cg22308926
		cg22312050F		cg22312050
		cg22312275R		cg22312275
		cg22316451F		cg22316451
		cg22318509R		cg22318509
MYO7A;MYO7A;MYO7A	NM_000260;NM_001127180	cg22320059F	Body;Body;Body	cg22320059
SRCIN1	NM_025248	cg22320365F	Body	cg22320365
MTCH2	NM_014342	cg22321327R	3'UTR	cg22321327
RETN	NM_020415	cg22322184R	5'UTR	cg22322184
NBLA00301	NR_003679	cg22322465R	Body	cg22322465
AMPH;AMPH	NM_139316;NM_001635	cg22327527R	Body;Body	cg22327527
KCNC3	NM_004977	cg22328426F	Body	cg22328426
TDRD6;TDRD6;TDRD6;T	NM_001010870;NM_001010	cg22329831R	1stExon;5'UTR;5'UTR;1	cg22329831
		cg22330841F	cg22330841	cg22330841
TPD52L2;TPD52L2;TPD52	NM_199361;NM_199362;NM	cg22332321R	Body;Body;Body;Body;B	cg22332321
FHL3	NM_004468	cg22335076R	Body	cg22335076
		cg22336162F		cg22336162
USP29	NM_020903	cg22338152F	Body	cg22338152
WDR64	NM_144625	cg22338443F	TSS1500	cg22338443
		cg22343877R		cg22343877
SDC1;SDC1	NM_002997;NM_001006946	cg22344841R	Body;Body	cg22344841
		cg22345896R		cg22345896
LAMC2;LAMC2	NM_005562;NM_018891	cg22346461F	Body;Body	cg22346461
RNF187;RNF187	NM_001010858;NM_001010	cg22350171F	5'UTR;1stExon	cg22350171
NLE1;NLE1	NM_018096;NM_001014445	cg22350578F	TSS1500;TSS1500	cg22350578
ZNF70	NM_021916	cg22351824R	3'UTR	cg22351824
MUC20	NM_152673	cg22352709R	TSS1500	cg22352709
SLC22A15	NM_018420	cg22353097F	Body	cg22353097
		cg22353551R		cg22353551
		cg22355554R		cg22355554
GAS7	NM_201433	cg22360318F	Body	cg22360318
PTGS2	NM_000963	cg22365834R	Body	cg22365834
		cg22367250R		cg22367250
		cg22368036F		cg22368036
		cg22369009R		cg22369009
CALD1;CALD1;CALD1;C	NM_033139;NM_033157;NM	cg22369318R	Body;Body;Body;Body;B	cg22369318
SSU72	NM_014188	cg22373622R	Body	cg22373622
DOK6	NM_152721	cg22374213R	Body	cg22374213
IDH3A	NM_005530	cg22375623F	Body	cg22375623
BCAS3;BCAS3	NM_001099432;NM_017679	cg22375853F	Body;Body	cg22375853
SERPINB9	NM_004155	cg22376758R	Body	cg22376758
JAZF1	NM_175061	cg22377814R	Body	cg22377814
CARM1	NM_199141	cg22378614R	TSS1500	cg22378614
ZNF57	NM_173480	cg22380472R	TSS1500	cg22380472
		cg22380663F		cg22380663
PHLDB3	NM_198850	cg22383472F	TSS200	cg22383472
ST3GAL3;ST3GAL3;ST3G	NM_174968;NM_006279;NM	cg22384188R	Body;Body;Body;Body;	cg22384188

RNF2	NM_007212	cg22390433F	TSS200	cg22390433
TNFAIP8L2	NM_024575	cg22392857F	TSS200	cg22392857
TAF7L	NM_024885	cg22394889R	TSS1500	cg22394889
SRPK2	NM_182692	cg22395253F	Body	cg22395253
		cg22396280F		cg22396280
		cg22396792F		cg22396792
ATP1B1;ATP1B1	NM_001677;NM_001001787	cg22399423F	TSS1500;TSS1500	cg22399423
PEX14	NM_004565	cg22400059R	Body	cg22400059
TAS2R46;PRR4;PRH1	NM_176887;NM_001098538	cg22403060F	TSS1500;5'UTR;5'UTR	cg22403060
		cg22406758R		cg22406758
KIF1A	NM_004321	cg22414499R	Body	cg22414499
SLC22A1;SLC22A1	NM_153187;NM_003057	cg22416916R	TSS200;TSS200	cg22416916
NEURL1B	NM_001142651	cg22418620F	Body	cg22418620
USP50;USP8;USP8;USP8	NM_203494;NM_005154;NM_005154	cg22422264R	3'UTR;3'UTR;3'UTR;3'UTR	cg22422264
PRAMEF12	NM_001080830	cg22426139R	Body	cg22426139
SVOPL	NM_001139456	cg22428888F	TSS1500	cg22428888
		cg22433396F		cg22433396
C17orf54	NR_027146	cg22433759R	Body	cg22433759
PLXNC1	NM_005761	cg22433914R	Body	cg22433914
SLC12A2;FLJ33630	NM_001046;NR_015360	cg22438603R	TSS1500;TSS200	cg22438603
SLC36A3;SLC36A3;SLC36A3	NM_181774;NM_001145017	cg22445920R	5'UTR;5'UTR;1stExon;1stExon	cg22445920
TMCO3	NM_017905	cg22448360R	Body	cg22448360
PPP1R15B	NM_032833	cg22449766F	TSS200	cg22449766
		cg22454564R		cg22454564
		cg22458832R		cg22458832
		cg22459078F		cg22459078
TRIM26	NM_003449	cg22463097R	5'UTR	cg22463097
CLDN11	NM_005602	cg22463444R	Body	cg22463444
		cg22466850R		cg22466850
KIRREL2;KIRREL2;KIRREL2	NM_199180;NM_032123;NM_032123	cg22467594F	3'UTR;3'UTR;3'UTR	cg22467594
TRIO	NM_007118	cg22472360R	Body	cg22472360
		cg22473616F		cg22473616
SASH3	NM_018990	cg22474124R	TSS200	cg22474124
NLRP2	NM_017852	cg22475082R	Body	cg22475082
ZNF331;ZNF331	NM_001079906;NM_018555	cg22475353R	TSS200;5'UTR	cg22475353
YPEL5;YPEL5;YPEL5;YPEL5	NM_001127399;NM_0011127	cg22478952F	5'UTR;5'UTR;5'UTR;5'UTR	cg22478952
SUPT4H1	NM_003168	cg22481606R	TSS200	cg22481606
C3orf26;FILIP1L;MIR548	NM_032359;NM_182909;NR_032359	cg22481643F	Body;Body;Body;5'UTR	cg22481643
		cg22482142F		cg22482142
IL20RA	NM_014432	cg22487322F	TSS200	cg22487322
ZFYVE28	NM_020972	cg22488278F	Body	cg22488278
ITGAM;ITGAM	NM_001145808;NM_000632	cg22490695R	TSS200;TSS200	cg22490695
C6orf35;C6orf35	NM_018452;NM_018452	cg22491629R	5'UTR;1stExon	cg22491629
MAD1L1;MAD1L1;MAD1L1	NM_003550;NM_001013837	cg22493042R	Body;Body;Body	cg22493042
CIB4	NM_001029881	cg22493413R	TSS1500	cg22493413
ALX3	NM_006492	cg22494858F	Body	cg22494858
PDE4D	NM_001165899	cg22495322R	5'UTR	cg22495322
ANKRD32;C5orf36;C5orf36	NM_032290;NM_001145678	cg22498057F	TSS200;TSS200;TSS200	cg22498057
ZNF167	NM_025169	cg22502448F	Body	cg22502448
ITGB4;ITGB4;ITGB4	NM_000213;NM_001005731	cg22504104F	5'UTR;5'UTR;TSS200	cg22504104
BMP6	NM_001718	cg22505205R	TSS200	cg22505205
		cg22510462R		cg22510462
MED10	NM_032286	cg22511408R	TSS200	cg22511408
PART1	NR_024617	cg22512292R	Body	cg22512292

		cg22514173F		cg22514173
		cg22515987F		cg22515987
PPM1D	NM_003620	cg22517607F	Body	cg22517607
CCL3	NM_002983	cg22518733F	TSS200	cg22518733
DPP9	NM_139159	cg22519738R	Body	cg22519738
C1QTNF9B	NM_001007537	cg22523074F	TSS1500	cg22523074
		cg22523078R		cg22523078
INPP4A;INPP4A;INPP4A;INM_001566;NM_004027;NM		cg22526076R	5'UTR;5'UTR;5'UTR;5'U	cg22526076
		cg22529427R		cg22529427
LRRC47	NM_020710	cg22529645F	Body	cg22529645
NMNAT2	NM_015039	cg22532003F	Body	cg22532003
ANKRD1	NM_014391	cg22534097F	TSS200	cg22534097
CPN1	NM_001308	cg22534585R	Body	cg22534585
		cg22535084R		cg22535084
TMCO3	NM_017905	cg22535089R	Body	cg22535089
SYTL4;SYTL4	NM_080737;NM_001129896	cg22540489R	3'UTR;3'UTR	cg22540489
TUBA4A	NM_006000	cg22541905F	Body	cg22541905
		cg22542120F		cg22542120
NMT1	NM_021079	cg22542420R	3'UTR	cg22542420
		cg22542702R		cg22542702
PTPRS;PTPRS;PTPRS;PTPNM_130855;NM_002850;NM		cg22542955F	Body;Body;Body;Body	cg22542955
EPM2A;EPM2A	NM_001018041;NM_005670	cg22545294R	Body;Body	cg22545294
		cg22549556F		cg22549556
SRD5A2	NM_000348	cg22549881F	TSS1500	cg22549881
		cg22552139F		cg22552139
GJA4	NM_002060	cg22558673R	TSS1500	cg22558673
KIF13B	NM_015254	cg22561384F	Body	cg22561384
TMC8	NM_152468	cg22563987F	Body	cg22563987
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg22576033R	Body;Body;Body	cg22576033
KIAA1644	NM_001099294	cg22576171F	TSS1500	cg22576171
CLN6	NM_017882	cg22576950F	TSS1500	cg22576950
		cg22581352R		cg22581352
		cg22581364F		cg22581364
		cg22582187F		cg22582187
C7orf20	NM_015949	cg22586474F	Body	cg22586474
		cg22588983F		cg22588983
		cg22591006R		cg22591006
ZNF761	NM_001008401	cg22593889R	Body	cg22593889
MAP3K3;MAP3K3	NM_002401;NM_203351	cg22596016R	Body;Body	cg22596016
POLRMT	NM_005035	cg22598233R	TSS200	cg22598233
		cg22599005F		cg22599005
		cg22599148R		cg22599148
		cg22603243F		cg22603243
DLGAP2	NM_004745	cg22603628R	Body	cg22603628
		cg22605037F		cg22605037
DNMT3B;DNMT3B;DNM	NM_175850;NM_175850;NM	cg22605822F	5'UTR;1stExon;5'UTR;5'	cg22605822
		cg22606129F		cg22606129
GALNT9	NM_001122636	cg22606941R	Body	cg22606941
PRDM16;PRDM16	NM_199454;NM_022114	cg22608265R	3'UTR;3'UTR	cg22608265
		cg22609277F		cg22609277
HIST1H4H	NM_003543	cg22609510R	TSS200	cg22609510
WNT5A	NM_003392	cg22615158F	TSS200	cg22615158
ALKBH5	NM_017758	cg22622440F	Body	cg22622440
CDC7;CDC7;CDC7;CDC7;NM_001134419;NM_003503		cg22622495R	5'UTR;5'UTR;1stExon;T	cg22622495



VSX1;VSX1	NM_014588;NM_199425	cg22625752R	Body;3'UTR	cg22625752
JAM2;JAM2	NM_021219;NM_021219	cg22627390F	1stExon;5'UTR	cg22627390
		cg22630605R		cg22630605
DOCK5	NM_024940	cg22630875R	TSS1500	cg22630875
		cg22636056R		cg22636056
RUNDC3A;RUNDC3A;RUNM_001144825;NM_001144		cg22638185R	1stExon;1stExon;5'UTR;	cg22638185
CPSF1;MIR939	NM_013291;NR_030635	cg22638461F	Body;TSS1500	cg22638461
NXF4	NR_002216	cg22638535R	TSS1500	cg22638535
PLEKHM3;PLEKHM3	NM_001080475;NM_001080	cg22640010F	5'UTR;1stExon	cg22640010
MGAT5B;MGAT5B	NM_144677;NM_198955	cg22640193F	Body;Body	cg22640193
RNF149	NM_173647	cg22641930F	Body	cg22641930
		cg22644450F		cg22644450
MCL1;MCL1	NM_021960;NM_182763	cg22649068F	TSS1500;TSS1500	cg22649068
CYP2D6;CYP2D6	NM_001025161;NM_000106	cg22650942R	TSS1500;TSS1500	cg22650942
RGS12;RGS12;RGS12	NM_198229;NM_198227;NM_198227	cg22655196F	Body;Body;Body	cg22655196
CCDC122;C13orf31;C13orf31	NM_144974;NM_001128303	cg22655975F	5'UTR;TSS200;TSS1500	cg22655975
LIPC	NM_000236	cg22663660F	Body	cg22663660
ADD3;ADD3;ADD3	NM_016824;NM_001121;NM_001121	cg22666103R	5'UTR;5'UTR;5'UTR	cg22666103
		cg22671939F		cg22671939
DDX51;NOC4L	NM_175066;NM_024078	cg22672078F	Body;TSS1500	cg22672078
ZNF354A	NM_005649	cg22673336F	Body	cg22673336
		cg22674202R		cg22674202
		cg22674388R		cg22674388
CTAG2;CTAG2	NM_020994;NM_172377	cg22675021F	1stExon;1stExon	cg22675021
DGKZ;DGKZ;DGKZ	NM_201533;NM_003646;NM_003646	cg22675791R	Body;Body;Body	cg22675791
EPS8	NM_004447	cg22677100F	5'UTR	cg22677100
GJC2	NM_020435	cg22681074R	5'UTR	cg22681074
		cg22681344F		cg22681344
SCAMP4;ADAT3	NM_079834;NM_138422	cg22684041R	TSS1500;TSS1500	cg22684041
		cg22689280F		cg22689280
CYTH3;CYTH3	NM_004227;NM_004227	cg22691505R	5'UTR;1stExon	cg22691505
		cg22693493R		cg22693493
TARDBP	NM_007375	cg22693994F	3'UTR	cg22693994
TPRG1L	NM_182752	cg22697657F	Body	cg22697657
FLJ39609	NR_026874	cg22699361R	TSS200	cg22699361
		cg22702857R		cg22702857
ZSCAN5A	NM_024303	cg22702949F	TSS200	cg22702949
CHRM3	NM_000740	cg22703515F	5'UTR	cg22703515
SLC29A3	NM_018344	cg22704915F	Body	cg22704915
ARFGAP2	NM_032389	cg22708233R	TSS200	cg22708233
ALG12;CRELD2;ALG12;CNM_024105;NM_024324;NM_024324		cg22709217F	5'UTR;TSS1500;1stExon	cg22709217
		cg22711619R		cg22711619
PDE4DIP;PDE4DIP	NM_001002812;NM_014644	cg22712955R	Body;Body	cg22712955
LOC148696	NR_026817	cg22714290F	Body	cg22714290
EN1;EN1	NM_001426;NM_001426	cg22714777R	1stExon;5'UTR	cg22714777
		cg22721170R		cg22721170
		cg22724179F		cg22724179
		cg22729562F		cg22729562
ETHE1;ETHE1	NM_014297;NM_014297	cg22732515R	1stExon;5'UTR	cg22732515
KCNMA1;KCNMA1;KCNMA1	NM_001161353;NM_001161	cg22732603R	Body;Body;Body;Body	cg22732603
ATMIN	NM_015251	cg22734315F	1stExon	cg22734315
		cg22738642F		cg22738642
		cg22740796R		cg22740796
GIT2;GIT2;GIT2;GIT2;GIT2	NM_139201;NM_001135214	cg22742001F	TSS1500;TSS1500;TSS1500	cg22742001

ZNF250;ZNF250	NM_001109689;NM_021061	cg22742299F	5'UTR;5'UTR	cg22742299
NALCN	NM_052867	cg22745570R	5'UTR	cg22745570
SLC25A2	NM_031947	cg22746426F	TSS1500	cg22746426
MPEG1	NM_001039396	cg22748470F	TSS1500	cg22748470
ZNF708;ZNF708	NM_021269;NM_021269	cg22750001F	1stExon;5'UTR	cg22750001
		cg22753515R		cg22753515
		cg22754489F		cg22754489
		cg22758504F		cg22758504
		cg22759800F		cg22759800
		cg22760037F		cg22760037
		cg22761670F		cg22761670
NCK2;NCK2	NM_003581;NM_001004722	cg22765178R	5'UTR;5'UTR	cg22765178
MYO1B;MYO1B;MYO1B	NM_001130158;NM_001161	cg22768676R	Body;Body;Body	cg22768676
		cg22775801F		cg22775801
SCUBE3	NM_152753	cg22777309F	1stExon	cg22777309
SNORA52;RPLP2	NR_002585;NM_001004	cg22777949F	TSS1500;5'UTR	cg22777949
ANKRD37;ANKRD37	NM_181726;NM_181726	cg22778132R	1stExon;5'UTR	cg22778132
TRAF3;TRAF3;TRAF3	NM_145726;NM_003300;NM_003300	cg22779765R	Body;Body;Body	cg22779765
KEAP1;KEAP1	NM_203500;NM_012289	cg22779878F	Body;Body	cg22779878
GRAMD4	NM_015124	cg22786631R	TSS200	cg22786631
		cg22788109R		cg22788109
INPP4B;INPP4B	NM_003866;NM_001101669	cg22788252R	Body;Body	cg22788252
TEKT2	NM_014466	cg22789254F	Body	cg22789254
		cg22792048F		cg22792048
		cg22792479F		cg22792479
AGFG1;AGFG1;AGFG1;ANM_004504;NM_001135189		cg22792938F	1stExon;1stExon;1stExo	cg22792938
		cg22795489R		cg22795489
COL17A1	NM_000494	cg22796593R	Body	cg22796593
KCNH2;KCNH2	NM_172056;NM_000238	cg22797114R	Body;Body	cg22797114
		cg22797700F		cg22797700
		cg22798287R		cg22798287
		cg22798303F		cg22798303
		cg22799069R		cg22799069
CASZ1;CASZ1	NM_001079843;NM_017766	cg22800477F	5'UTR;5'UTR	cg22800477
GATA2	NM_032638	cg22801992R	5'UTR	cg22801992
		cg22809653F		cg22809653
FMN1	NM_001103184	cg22810196F	Body	cg22810196
		cg22810546F		cg22810546
DOCK4	NM_014705	cg22811478F	Body	cg22811478
		cg22814417R		cg22814417
		cg22822890F		cg22822890
SLC11A2	NM_000617	cg22826226F	TSS1500	cg22826226
		cg22827501R		cg22827501
TCF7L1	NM_031283	cg22834443F	Body	cg22834443
		cg22836769F		cg22836769
		cg22837714R		cg22837714
BAD;GPR137;GPR137;BANM_032989;NM_001170726		cg22841110F	TSS1500;Body;TSS200;	cg22841110
ERICH1	NM_207332	cg22843129R	Body	cg22843129
TRAPPC6B;TRAPPC6B	NM_001079537;NM_177452	cg22843395F	TSS200;TSS200	cg22843395
		cg22843765F		cg22843765
UNC13C	NM_001080534	cg22845496R	TSS1500	cg22845496
IQCE;IQCE	NM_001100390;NM_152558	cg22847190R	TSS200;TSS200	cg22847190
ISPD;ISPD	NM_001101426;NM_001101	cg22850258R	Body;Body	cg22850258
RRAGC	NM_022157	cg22850304F	TSS1500	cg22850304

C1orf183;DDX20	NM_198926;NM_007204	cg22851415R	Body;TSS1500	cg22851415
PRDM16;PRDM16	NM_022114;NM_199454	cg22851557R	Body;Body	cg22851557
FAM131C	NM_182623	cg22852013R	TSS1500	cg22852013
LOC100133315	NR_029192	cg22852134R	Body	cg22852134
TSNARE1	NM_145003	cg22852558R	Body	cg22852558
HNRNPC;HNRNPC;HNRNM	NM_031314;NM_001077442	cg22855988F	5'UTR;5'UTR;5'UTR;5'UTR	cg22855988
PRKACA;PRKACA	NM_207518;NM_002730	cg22857947R	TSS200;Body	cg22857947
ATG2A	NM_015104	cg22859714R	Body	cg22859714
C1orf14;C1orf14	NM_030933;NM_030933	cg22860181R	1stExon;5'UTR	cg22860181
SCGB2A2;SCGB2A2	NM_002411;NM_002411	cg22862656F	1stExon;5'UTR	cg22862656
CAPNS1;CAPNS1	NM_001749;NM_001003962	cg22869224R	Body;Body	cg22869224
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg22870373R	Body;Body;Body	cg22870373
		cg22870710F		cg22870710
		cg22871227F		cg22871227
URB2;TAF5L;TAF5L	NM_014777;NM_001025247	cg22873177F	TSS1500;5'UTR;5'UTR	cg22873177
PDE7A	NM_002604	cg22873412R	Body	cg22873412
MYBBP1A;MYBBP1A	NM_014520;NM_001105538	cg22876918F	TSS200;TSS200	cg22876918
ODZ3	NM_001080477	cg22878084F	Body	cg22878084
NRXN3;NRXN3	NM_004796;NM_004796	cg22878414F	5'UTR;1stExon	cg22878414
		cg22883353R		cg22883353
LOC100133669	NR_026913	cg22885068R	Body	cg22885068
		cg22885777R		cg22885777
		cg22886649F		cg22886649
		cg22887498F		cg22887498
TMEM42	NM_144638	cg22887911R	Body	cg22887911
		cg22890545F		cg22890545
YME1L1;MASTL;YME1L	NM_014263;NM_032844;NM_032844	cg22891520R	TSS1500;TSS200;TSS1500	cg22891520
CDC42BPB	NM_006035	cg22897701F	Body	cg22897701
		cg22899869R		cg22899869
CNN2;CNN2;CNN2;CNN2	NM_004368;NM_201277;NM_201277;NM_201277	cg22902083F	1stExon;5'UTR;1stExon;5'UTR	cg22902083
SNORD114-29;SNORD114	NR_003222;NR_003221	cg22907692F	TSS1500;Body	cg22907692
JPH4;JPH4	NM_001146028;NM_032452	cg22912331F	Body;Body	cg22912331
		cg22916593F		cg22916593
DGCR2	NM_005137	cg22919916R	TSS200	cg22919916
MCF2L;MCF2L	NM_001112732;NM_024979	cg22921229F	Body;Body	cg22921229
FRMD4A	NM_018027	cg22923409R	Body	cg22923409
KYNU;KYNU	NM_001032998;NM_003937	cg22923487R	Body;Body	cg22923487
PHF11;PHF11	NM_001040444;NM_001040	cg22924269F	TSS1500;TSS200	cg22924269
		cg22924550R		cg22924550
STAMB;STAMB;STAMB	NM_006463;NM_201647;NM_201647	cg22927957F	Body;Body;Body	cg22927957
		cg22928386F		cg22928386
		cg22929787F		cg22929787
AGAP1;AGAP1	NM_014914;NM_001037131	cg22932195R	Body;Body	cg22932195
TBCA	NM_004607	cg22933020F	TSS200	cg22933020
		cg22933538R		cg22933538
		cg22937571R		cg22937571
		cg22939394F		cg22939394
		cg22939456R		cg22939456
		cg22943388F		cg22943388
		cg22950933R		cg22950933
ZNF586;ZNF586	NM_017652;NM_017652	cg22956410R	1stExon;5'UTR	cg22956410
		cg22958118R		cg22958118
		cg22958188F		cg22958188
		cg22959827R		cg22959827

SELV;SELV	NM_182704;NM_182704	cg22960051R	5'UTR;1stExon	cg22960051
LPHN3	NM_015236	cg22961275R	TSS1500	cg22961275
GNG2	NM_053064	cg22964775F	5'UTR	cg22964775
		cg22967080F		cg22967080
		cg22972402R		cg22972402
COPZ1	NM_016057	cg22974630R	Body	cg22974630
		cg22976466R		cg22976466
		cg22977246R		cg22977246
PAQR5;PAQR5	NM_001104554;NM_017705	cg22979123R	Body;Body	cg22979123
KRT75	NM_004693	cg22980804F	3'UTR	cg22980804
		cg22980863F		cg22980863
		cg22981555R		cg22981555
JAZF1	NM_175061	cg22982811R	Body	cg22982811
		cg22983641R		cg22983641
		cg22988865R		cg22988865
EPDR1	NM_017549	cg22990820R	TSS1500	cg22990820
EFNA5	NM_001962	cg22991477F	Body	cg22991477
UPK3B;UPK3B	NM_182684;NM_030570	cg22995176R	TSS1500;TSS1500	cg22995176
FGD5	NM_152536	cg22995904F	TSS1500	cg22995904
		cg22997362R		cg22997362
ZMYM2;ZMYM2	NM_197968;NM_003453	cg22999268R	TSS200;TSS200	cg22999268
SLC6A19	NM_001003841	cg23000153R	Body	cg23000153
		cg23003872F		cg23003872
HBP1	NM_012257	cg23004466F	5'UTR	cg23004466
		cg23006227R		cg23006227
C7	NM_000587	cg23007255F	TSS1500	cg23007255
CSPG5	NM_006574	cg23009042F	3'UTR	cg23009042
HHEX	NM_002729	cg23009123R	Body	cg23009123
		cg23009290F		cg23009290
TCF3;TCF3	NM_003200;NM_001136139	cg23009327R	Body;Body	cg23009327
CORO1B;CORO1B	NM_020441;NM_001018070	cg23010585F	5'UTR;5'UTR	cg23010585
SORBS1;SORBS1;SORBS	NM_006434;NM_001034956	cg23011194R	Body;Body;Body;Body;	cg23011194
		cg23011786F		cg23011786
		cg23011899F		cg23011899
TSSK4	NM_174944	cg23013137R	Body	cg23013137
HOXB3	NM_002146	cg23014425F	5'UTR	cg23014425
CSGALNACT2	NM_018590	cg23014871F	Body	cg23014871
FAM101B	NM_182705	cg23015327R	Body	cg23015327
CACNA1I;CACNA1I	NM_001003406;NM_021096	cg23016726R	1stExon;1stExon	cg23016726
CDC42;CDC42;CDC42	NM_044472;NM_001039802	cg23019935R	Body;Body;Body	cg23019935
DGCR5	NR_002733	cg23023394F	TSS200	cg23023394
		cg23029292F		cg23029292
RNF216L;RNF216L;RNF2	NR_015449;NR_023384;NR_	cg23031969R	Body;Body;Body	cg23031969
OR2F2	NM_001004685	cg23034536R	TSS1500	cg23034536
JAKMIP3	NM_001105521	cg23035058F	3'UTR	cg23035058
CAP2	NM_006366	cg23036213R	Body	cg23036213
FGFRL1;FGFRL1;FGFRL	NM_001004358;NM_021923	cg23039660F	5'UTR;TSS1500;5'UTR	cg23039660
		cg23040424R		cg23040424
		cg23043162F		cg23043162
PRKAR1B;PRKAR1B;PRKN	NM_001164759;NM_001164	cg23043640R	Body;Body;Body;Body;B	cg23043640
PDE4B;PDE4B;PDE4B;PDN	NM_001037341;NM_001037	cg23045908R	Body;Body;Body;Body	cg23045908
		cg23046847F		cg23046847
DHCR24	NM_014762	cg23049307R	TSS1500	cg23049307
RERE;RERE;RERE	NM_012102;NM_001042681	cg23049737F	3'UTR;3'UTR;3'UTR	cg23049737

SLC35F5;SLC35F5	NM_025181;NM_025181	cg23050227F		cg23050227
ALDH9A1	NM_000696	cg23050996F	1stExon;5'UTR	cg23050996
LACTB2	NM_016027	cg23051879R	Body	cg23051879
		cg23053742R	Body	cg23053742
		cg23057567R		cg23057567
TMEM163	NM_030923	cg23057992R	TSS200	cg23057992
CASP8;CASP8;CASP8;CANM_001080124;NM_001080		cg23061725R	5'UTR;Body;5'UTR;5'U	cg23061725
CLIP2;CLIP2	NM_032421;NM_003388	cg23062810F	5'UTR;5'UTR	cg23062810
INPP5A	NM_005539	cg23063147F	Body	cg23063147
RABL5;RABL5;RABL5;R	NM_001130822;NM_001130	cg23065101R	5'UTR;Body;Body;5'UTR	cg23065101
SPEG	NM_005876	cg23065715F	TSS200	cg23065715
PFKP	NM_002627	cg23071864R	Body	cg23071864
TRIB2;TRIB2	NM_021643;NR_027303	cg23071962R	TSS200;TSS200	cg23071962
		cg23076949R		cg23076949
		cg23077029R		cg23077029
		cg23081488R		cg23081488
SH3BP4	NM_014521	cg23081527R	5'UTR	cg23081527
RSF1	NM_016578	cg23082773R	Body	cg23082773
		cg23083229F		cg23083229
DHRS11	NM_024308	cg23086243F	Body	cg23086243
		cg23088403R		cg23088403
ZNF33A;ZNF33A	NM_006954;NM_006974	cg23088989F	Body;Body	cg23088989
CTBP2;CTBP2;CTBP2	NM_001329;NM_022802;NM_001329	cg23089912F	Body;Body;Body	cg23089912
		cg23091067F		cg23091067
PLEKHA6	NM_014935	cg23094674R	TSS200	cg23094674
CTXN1	NM_206833	cg23095776R	TSS200	cg23095776
FBN2	NM_001999	cg23096272R	Body	cg23096272
STK25	NM_006374	cg23098038F	Body	cg23098038
RANBP2	NM_006267	cg23100370R	Body	cg23100370
		cg23103043F		cg23103043
AP3D1;AP3D1	NM_001077523;NM_003938	cg23103406R	Body;Body	cg23103406
		cg23105237F		cg23105237
KIAA0754;MACF1;MACF	NM_015038;NM_012090;NM_015038	cg23108607F	1stExon;Body;Body	cg23108607
		cg23110027F		cg23110027
		cg23113715F		cg23113715
CHD3;CHD3;CHD3	NM_001005271;NM_005852	cg23115933R	Body;Body;Body	cg23115933
		cg23117530F		cg23117530
UNC80;UNC80	NM_032504;NM_182587	cg23117592F	Body;Body	cg23117592
		cg23119967F		cg23119967
PLCB2	NM_004573	cg23120601F	Body	cg23120601
C6orf123	NR_026773	cg23121394R	Body	cg23121394
HCCA2;LOC338651;DUSP	NM_053005;NR_021489;NM_053005	cg23121547R	Body;TSS1500;TSS1500	cg23121547
		cg23121887F		cg23121887
MTA1	NM_004689	cg23123838R	TSS200	cg23123838
TSPAN4;TSPAN4;TSPAN	NM_001025236;NM_001025	cg23127064F	TSS1500;TSS1500;TSS1500	cg23127064
TSNARE1	NM_145003	cg23136266R	Body	cg23136266
RPS20;RPS20;SNORD54	NM_001146227;NM_001023	cg23139584F	TSS1500;TSS1500;TSS1500	cg23139584
OR4E2	NM_001001912	cg23139887F	TSS1500	cg23139887
FLJ40852	NR_015392	cg23144994F	Body	cg23144994
SPARC	NM_003118	cg23146663F	TSS200	cg23146663
TBCA	NM_004607	cg23152667F	TSS200	cg23152667
MUC6	NM_005961	cg23152931R	Body	cg23152931
C3orf63;C3orf63	NM_001112736;NM_015224	cg23154064R	Body;TSS1500	cg23154064
PAX8;PAX8;PAX8;PAX8;	NM_003466;NM_013951;NM_003466	cg23156509R	Body;Body;Body;Body;Body	cg23156509

FNDC3B;FNDC3B	NM_001135095;NM_022763	cg23158658F	Body;Body	cg23158658
GNAS;GNAS;GNAS;GNA	NM_001077490;NR_003259;	cg23159236R	3'UTR;TSS200;3'UTR;B	cg23159236
PARP1	NM_001618	cg23163136R	Body	cg23163136
TNXB	NM_019105	cg23164535R	Body	cg23164535
		cg23167259R		cg23167259
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_	cg23168425F	Body;Body;Body	cg23168425
AVP	NM_000490	cg23169111F	TSS1500	cg23169111
ADAMTS14;ADAMTS14	NM_080722;NM_139155	cg23169883R	Body;Body	cg23169883
SMAD6;SMAD6	NR_027654;NM_005585	cg23172828F	Body;Body	cg23172828
GLIS1	NM_147193	cg23174919R	Body	cg23174919
ADARB2	NM_018702	cg23179265R	Body	cg23179265
TBCD	NM_005993	cg23180925F	Body	cg23180925
		cg23182239F		cg23182239
ZNF100	NM_173531	cg23187015F	TSS200	cg23187015
EPHA5;EPHA5	NM_004439;NM_182472	cg23193365R	Body;Body	cg23193365
EXOC6;EXOC6	NM_001013848;NM_019053	cg23194880R	Body;Body	cg23194880
RLTPR	NM_001013838	cg23195510R	TSS1500	cg23195510
		cg23199643R		cg23199643
REXO1	NM_020695	cg23202053F	3'UTR	cg23202053
ESPNP	NR_026567	cg23205676R	TSS1500	cg23205676
RGS6	NM_004296	cg23205818R	Body	cg23205818
TEX101	NM_031451	cg23206289R	TSS1500	cg23206289
		cg23207542F		cg23207542
IL5	NM_000879	cg23208285F	TSS1500	cg23208285
ARC	NM_015193	cg23210049F	TSS200	cg23210049
BAIAP2;BAIAP2;BAIAP2	NM_001144888;NM_006340	cg23210075R	3'UTR;3'UTR;3'UTR	cg23210075
CD44;CD44;CD44;CD44;CNM_001001391;NM_001001	cg23210303F	cg23210303F	TSS1500;TSS1500;TSS1	cg23210303
		cg23213449F		cg23213449
DNAJC24	NM_181706	cg23214018F	Body	cg23214018
		cg23214207F		cg23214207
PRKAR1B;PRKAR1B;PRK	NM_001164759;NM_001164	cg23215256F	Body;Body;Body;Body;	cg23215256
DGKD;DGKD	NM_152879;NM_003648	cg23216122F	Body;Body	cg23216122
		cg23217283R		cg23217283
LOC285205	NR_015394	cg23217527R	Body	cg23217527
SGIP1	NM_032291	cg23217983R	Body	cg23217983
BRUNOL5	NM_021938	cg23224511F	Body	cg23224511
		cg23225699R		cg23225699
KLC4;KLC4;KLC4	NM_201522;NM_201521;NM_	cg23227932R	Body;Body;Body	cg23227932
CTSF	NM_003793	cg23228609R	TSS1500	cg23228609
GPR61	NM_031936	cg23229604R	TSS1500	cg23229604
LOC728661;CDK11B;CDK	NM_001110781;NM_033493	cg23231093R	TSS1500;Body;Body;Bo	cg23231093
F11	NM_000128	cg23232755F	TSS1500	cg23232755
SPSB4	NM_080862	cg23232849F	Body	cg23232849
PRICKLE1	NM_153026	cg23236959R	5'UTR	cg23236959
LRRN1	NM_020873	cg23238483F	5'UTR	cg23238483
FLJ90757;BAIAP2;BAIAP	NR_026857;NM_001144888;	cg23239052R	TSS1500;TSS200;TSS20	cg23239052
GPR1;GPR1	NM_005279;NM_001098199	cg23239484R	5'UTR;5'UTR	cg23239484
		cg23240213F		cg23240213
		cg23240231R		cg23240231
ZNF280C	NM_017666	cg23242456F	Body	cg23242456
CXCL2	NM_002089	cg23244559F	TSS1500	cg23244559
USP34	NM_014709	cg23245432F	TSS1500	cg23245432
		cg23245642R		cg23245642
ZNF555	NM_152791	cg23246320R	Body	cg23246320

		cg23248205R		cg23248205
		cg23248615F		cg23248615
SLC12A8	NM_024628	cg23250039R	Body	cg23250039
CHRNA3;CHRNA3;CHRNNM_001166694;NM_000743		cg23250494F	5'UTR;5'UTR;1stExon;1	cg23250494
LAMA5	NM_005560	cg23251868R	Body	cg23251868
EFHC2	NM_025184	cg23252784R	TSS1500	cg23252784
		cg23253460R		cg23253460
ZNF235	NM_004234	cg23254484F	TSS1500	cg23254484
		cg23255558F		cg23255558
NR1H4;NR1H4	NM_005123;NM_005123	cg23256150R	5'UTR;1stExon	cg23256150
NFKB2;NFKB2;NFKB2	NM_001077494;NM_001077	cg23256466F	Body;Body;Body	cg23256466
GRIP2	NM_001080423	cg23259384R	Body	cg23259384
ENTPD7;ENTPD7	NM_020354;NM_020354	cg23260190R	1stExon;5'UTR	cg23260190
DNAJC3	NM_006260	cg23262420R	Body	cg23262420
		cg23267554R		cg23267554
		cg23274912F		cg23274912
ODZ4	NM_001098816	cg23279192R	5'UTR	cg23279192
		cg23279792R		cg23279792
HERPUD2	NM_022373	cg23280290F	TSS200	cg23280290
DUSP11	NM_003584	cg23283216R	3'UTR	cg23283216
ESR2;ESR2;ESR2	NM_001040276;NM_001437	cg23284245F	5'UTR;5'UTR;5'UTR	cg23284245
ZNHIT1	NM_006349	cg23284476F	Body	cg23284476
FAM66A	NR_026789	cg23285059F	Body	cg23285059
PTP4A3;PTP4A3	NM_007079;NM_032611	cg23286173F	Body;Body	cg23286173
		cg23286592R		cg23286592
		cg23287638R		cg23287638
FBXL17	NM_001163315	cg23290343R	1stExon	cg23290343
C20orf30;C20orf30;C20orf	NM_001009924;NM_014145	cg23291865F	5'UTR;1stExon;1stExon;	cg23291865
NCAN	NM_004386	cg23294208R	Body	cg23294208
		cg23296652R		cg23296652
FLT4;FLT4	NM_002020;NM_182925	cg23297812R	Body;Body	cg23297812
		cg23298047F		cg23298047
DGKI	NM_004717	cg23299133F	TSS200	cg23299133
CNGB3	NM_019098	cg23301462F	TSS1500	cg23301462
PPP2CA	NM_002715	cg23307708R	TSS200	cg23307708
LPCAT1	NM_024830	cg23312151F	Body	cg23312151
WASL	NM_003941	cg23313650R	TSS200	cg23313650
KCNG2	NM_012283	cg23314297R	Body	cg23314297
		cg23316060F		cg23316060
		cg23322546F		cg23322546
ZNF526	NM_133444	cg23324123R	Body	cg23324123
ITPR2	NM_002223	cg23332732R	TSS200	cg23332732
GPR137C	NM_001099652	cg23333723R	Body	cg23333723
SLC37A1	NM_018964	cg23336810F	5'UTR	cg23336810
		cg23338752F		cg23338752
SPON2;SPON2	NM_001128325;NM_012445	cg23339454R	Body;Body	cg23339454
TNXB	NM_019105	cg23339482R	Body	cg23339482
TLX1	NM_005521	cg23340017F	Body	cg23340017
		cg23340350R		cg23340350
ITPR2	NM_002223	cg23341970R	Body	cg23341970
CDKAL1	NM_017774	cg23342625F	Body	cg23342625
OR10H4	NM_001004465	cg23343875R	TSS1500	cg23343875
		cg23345508F		cg23345508
ALKBH5	NM_017758	cg23353672F	Body	cg23353672

SLC22A11	NM_018484	cg23361590R	Body	cg23361590
MAP4K4;MAP4K4;MAP4K4	NM_145687;NM_004834;NM_004834	cg23361809R	Body;Body;Body	cg23361809
ZNF433	NM_001080411	cg23363818R	Body	cg23363818
PPP1R14C	NM_030949	cg23364428R	Body	cg23364428
		cg23365135R		cg23365135
PTPRN	NM_002846	cg23367089R	Body	cg23367089
HDAC4	NM_006037	cg23367987R	Body	cg23367987
TTC37	NM_014639	cg23371889R	5'UTR	cg23371889
KCNK16;KCNK16;KCNK16	NM_032115;NM_001135107	cg23372795F	Body;Body;Body;Body	cg23372795
FCHO2;FCHO2	NM_138782;NM_001146032	cg23374814R	Body;Body	cg23374814
		cg23374885R		cg23374885
TDP1;C14orf143;TDP1	NM_018319;NM_145231;NM_145231	cg23376870R	5'UTR;TSS1500;5'UTR	cg23376870
C10orf50	NR_026793	cg23378142F	Body	cg23378142
ZFR2	NM_015174	cg23380496R	Body	cg23380496
		cg23381028F		cg23381028
		cg23382101F		cg23382101
NSD1;NSD1;NSD1	NM_172349;NM_022455;NM_022455	cg23383189F	1stExon;TSS1500;5'UTR	cg23383189
		cg23385669F		cg23385669
SNORA26;KIAA0114	NR_003016;NR_024031	cg23387220F	TSS1500;TSS200	cg23387220
CADPS2;CADPS2;CADPS2	NM_001009571;NM_001167	cg23390958R	Body;Body;Body	cg23390958
ARSB	NM_000046	cg23392359R	TSS1500	cg23392359
		cg23409591R		cg23409591
STYX;STYX	NM_145251;NM_001130701	cg23409613R	TSS200;TSS200	cg23409613
BTN2A3	NR_027795	cg23411274F	TSS1500	cg23411274
		cg23413104R		cg23413104
DNAJC5	NM_025219	cg23415176R	5'UTR	cg23415176
CACNB1	NM_000723	cg23415212F	3'UTR	cg23415212
BCAS3;BCAS3	NM_001099432;NM_017679	cg23415789R	Body;Body	cg23415789
BCL6	NM_001706	cg23416197R	5'UTR	cg23416197
CWC22	NM_020943	cg23417306F	5'UTR	cg23417306
HLA-DQB2	NR_003937	cg23418102F	Body	cg23418102
		cg23421114F		cg23421114
ZCCHC8	NM_017612	cg23424400F	TSS1500	cg23424400
		cg23425280R		cg23425280
TG	NM_003235	cg23427666F	Body	cg23427666
AP4E1	NM_007347	cg23429735F	3'UTR	cg23429735
TSSC1	NM_003310	cg23429966R	Body	cg23429966
STARD6	NM_139171	cg23430415F	TSS1500	cg23430415
		cg23434461F		cg23434461
LRRK1	NM_024652	cg23435508R	Body	cg23435508
IFLTD1;IFLTD1;IFLTD1;IFLTD1	NM_152590;NM_001145728	cg23435916R	Body;Body;Body;Body;	cg23435916
TMEM108;TMEM108	NM_001136469;NM_023943	cg23438371F	5'UTR;5'UTR	cg23438371
		cg23444578F		cg23444578
		cg23444610F		cg23444610
		cg23444713F		cg23444713
		cg23445878R		cg23445878
MEGF11	NM_032445	cg23451023F	TSS1500	cg23451023
RASL10B	NM_033315	cg23451251R	Body	cg23451251
		cg23452119F		cg23452119
LDB2;LDB2	NM_001290;NM_001130834	cg23452220R	Body;Body	cg23452220
BEND7;BEND7	NM_152751;NM_001100912	cg23456689R	Body;Body	cg23456689
		cg23457357R		cg23457357
		cg23459174R		cg23459174
		cg23462152F		cg23462152



BUB1;BUB1	NM_004336;NM_004336	cg23465967R	1stExon;5'UTR	cg23465967
MGMT	NM_002412	cg23465978R	Body	cg23465978
MRAS;MRAS	NM_012219;NM_001085049	cg23466339R cg23468144R	TSS200;TSS1500	cg23466339 cg23468144
POM121C	NM_001099415	cg23472171R cg23473276R cg23473297F	Body	cg23472171 cg23473276 cg23473297
MIR636;SFRS2;MFSD11	NR_030366;NM_003016;NM	cg23473419F cg23475244F	TSS1500;Body;TSS1500	cg23473419 cg23475244
LONP1	NM_004793	cg23477849R cg23478547R	Body	cg23477849 cg23478547
CAND2;CAND2	NM_001162499;NM_012298	cg23482898F	Body;Body	cg23482898
BRPF3	NM_015695	cg23482986R cg23483790F cg23484609R	Body	cg23482986 cg23483790 cg23484609
GNAS;GNAS;GNAS;GNA	NM_080425;NM_001077490	cg23484981F	TSS1500;TSS1500;3'UT	cg23484981
SKIV2L	NM_006929	cg23485738F	Body	cg23485738
NICN1	NM_032316	cg23486179F cg23487226R	1stExon	cg23486179 cg23487226
DYNLT1	NM_006519	cg23488616F	TSS200	cg23488616
RPS6KA5;RPS6KA5	NM_182398;NM_004755	cg23488851F	TSS1500;TSS1500	cg23488851
RBMS1;RBMS1	NM_002897;NM_016836	cg23489137R	Body;Body	cg23489137
CRIM1	NM_016441	cg23489390R	Body	cg23489390
HNRNPF;HNRNPF;HNRN	NM_001098205;NM_004966	cg23492413F cg23493260R cg23495820R	TSS1500;TSS1500;TSS1	cg23492413 cg23493260 cg23495820
VSNL1	NM_003385	cg23496400R	TSS200	cg23496400
AFF3	NM_002285	cg23497683F cg23498494F	TSS200	cg23497683 cg23498494
TSPAN18	NM_130783	cg23500396R cg23502888R	5'UTR	cg23500396 cg23502888
SLC12A7	NM_006598	cg23503101R	Body	cg23503101
KLF1	NM_006563	cg23505145R	Body	cg23505145
CSF1R	NM_005211	cg23505299F	Body	cg23505299
FAM3A;FAM3A;FAM3A;F	NM_021806;NM_001171134	cg23505798F	Body;Body;Body;Body;	cg23505798
MUPCDH;MUPCDH	NM_021924;NM_031264	cg23505890R	Body;Body	cg23505890
RDBP	NM_002904	cg23506135F cg23506143R	Body	cg23506135 cg23506143
PTPN9	NM_002833	cg23508591R	TSS200	cg23508591
EIF4G1;EIF4G1;EIF4G1;E	NM_198241;NM_182917;NM	cg23509745R	Body;Body;Body;Body;B	cg23509745
DCAF8L2	NM_001136533	cg23516342F	TSS1500	cg23516342
RSPH6A	NM_030785	cg23516537R	Body	cg23516537
MANEA	NM_024641	cg23517279F	TSS200	cg23517279
GABARAPL1	NM_031412	cg23519421F	TSS1500	cg23519421
FN3KRP	NM_024619	cg23522895R cg23523755F	TSS1500	cg23522895 cg23523755
CDK15	NM_139158	cg23527418R	Body	cg23527418
LIMS2;GPR17;GPR17;LIM	NM_001136037;NM_001161	cg23528975F	Body;TSS1500;TSS1500	cg23528975
RPS6KA2;RPS6KA2	NM_021135;NM_001006932	cg23530239F	Body;Body	cg23530239
SOX6;SOX6;SOX6;SOX6	NM_033326;NM_001145819	cg23530266R	Body;Body;Body;Body	cg23530266
C10orf47	NM_153256	cg23532197R	Body	cg23532197
ZNF7	NM_003416	cg23534983F cg23536509R cg23540272F	TSS1500	cg23534983 cg23536509 cg23540272

		cg23541923R		cg23541923
		cg23542274R		cg23542274
RPTOR;RPTOR	NM_001163034;NM_020761	cg23542426F	Body;Body	cg23542426
		cg23544526F		cg23544526
ATP11B	NM_014616	cg23544996R	Body	cg23544996
C14orf4	NM_024496	cg23549534R	1stExon	cg23549534
		cg23549571F		cg23549571
MREG	NM_018000	cg23550034R	TSS1500	cg23550034
SLC9A3	NM_004174	cg23551873F	Body	cg23551873
		cg23558227F		cg23558227
		cg23564474R		cg23564474
		cg23565663R		cg23565663
		cg23572703R		cg23572703
		cg23580945R		cg23580945
OBSCN;OBSCN	NM_052843;NM_001098623	cg23586423R	Body;Body	cg23586423
LOC646762	NR_024278	cg23590187R	Body	cg23590187
		cg23593694R		cg23593694
		cg23596244F		cg23596244
		cg23598051F		cg23598051
		cg23601030F		cg23601030
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_002847	cg23602909R	Body;Body;Body	cg23602909
POM121C	NM_001099415	cg23610064F	Body	cg23610064
MAPK1IP1L	NM_144578	cg23610575F	TSS200	cg23610575
		cg23616527F		cg23616527
RASA3	NM_007368	cg23617955R	Body	cg23617955
		cg23618632R		cg23618632
NRM	NM_007243	cg23621779F	TSS200	cg23621779
CHRNA9	NM_017581	cg23621817F	Body	cg23621817
ALG12;CRELD2;CRELD2	NM_024105;NM_001135101	cg23621893F	TSS200;TSS200;TSS200	cg23621893
OTUD7B	NM_020205	cg23623625R	5'UTR	cg23623625
TRAF6;TRAF6	NM_004620;NM_145803	cg23624321R	TSS1500;TSS1500	cg23624321
LOC100302640	NR_028303	cg23624822R	Body	cg23624822
		cg23626862R		cg23626862
GRHL2	NM_024915	cg23627353F	Body	cg23627353
ATIC	NM_004044	cg23627475F	Body	cg23627475
MINA;MINA;MINA	NM_153182;NM_001042533	cg23629183F	TSS200;TSS200;TSS200	cg23629183
		cg23630869F		cg23630869
MANEAL;MANEAL;MANN	NM_001031740;NM_0011113	cg23631842F	1stExon;1stExon;TSS1500	cg23631842
ACTG2	NM_001615	cg23632333F	5'UTR	cg23632333
CDC14C	NR_003595	cg23638725F	Body	cg23638725
RASA3	NM_007368	cg23640744F	Body	cg23640744
NEU1	NM_000434	cg23641315F	Body	cg23641315
DGKE;DGKE	NM_003647;NM_003647	cg23642587F	1stExon;5'UTR	cg23642587
INA	NM_032727	cg23642747R	TSS1500	cg23642747
LOC400927	NR_002821	cg23644017F	TSS200	cg23644017
DDI2	NM_032341	cg23645831F	TSS200	cg23645831
ZBTB47	NM_145166	cg23647554R	Body	cg23647554
		cg23650244F		cg23650244
POLN	NM_181808	cg23652725F	Body	cg23652725
MDGA2	NM_001113498	cg23654002R	Body	cg23654002
PDCL3	NM_024065	cg23654767R	3'UTR	cg23654767
		cg23657686R		cg23657686
SYT15;SYT15	NM_031912;NM_181519	cg23657694R	Body;Body	cg23657694
CRTC1;CRTC1	NM_015321;NM_001098482	cg23661824R	Body;Body	cg23661824

CYP4V2	NM_207352	cg23663824F cg23666618F	TSS200	cg23663824 cg23666618
GTF2I;GTF2I;GTF2I;GTF2	NM_001163636;NM_032999	cg23667916F cg23670511F	5'UTR;5'UTR;5'UTR;5'UTR	cg23667916 cg23670511
ANTXR1;ANTXR1	NM_053034;NM_032208	cg23678154F	Body;Body	cg23678154
ASAM	NM_024769	cg23679756R	TSS1500	cg23679756
C1orf59;C1orf59	NM_144584;NM_001102592	cg23680821R	TSS200;TSS1500	cg23680821
DLC1	NM_182643	cg23682255F cg23683962R cg23685885R	Body	cg23682255 cg23683962 cg23685885
TOLLIP	NM_019009	cg23685967F	Body	cg23685967
MEGF6	NM_001409	cg23686029R cg23690302F	Body	cg23686029 cg23690302
SOX9	NM_000346	cg23690866F	Body	cg23690866
C1orf38;C1orf38;C1orf38	NM_001105556;NM_004848	cg23691781R	3'UTR;3'UTR;3'UTR	cg23691781
AIP	NM_003977	cg23692589F	Body	cg23692589
SERPINB10	NM_005024	cg23696618F	Body	cg23696618
KRT79	NM_175834	cg23696712R cg23699463F	TSS200	cg23696712 cg23699463
HSD11B1L;HSD11B1L;HSNM	NM_198705;NM_198704;NM_006267	cg23701776R	TSS200;TSS200;TSS200	cg23701776
RANBP2	NM_006267	cg23706161F	Body	cg23706161
WDR45L;WDR45L	NM_019613;NM_019613	cg23713156R	5'UTR;1stExon	cg23713156
NHLRC2;DCLRE1A	NM_198514;NM_014881	cg23715505F	TSS1500;TSS200	cg23715505
ITPKB	NM_002221	cg23717186F cg23717752F	Body	cg23717186 cg23717752
ASCC1	NM_015947	cg23723835F	Body	cg23723835
MYT1L	NM_015025	cg23725210F	Body	cg23725210
ILDR1	NM_175924	cg23727520F	TSS200	cg23727520
RPL22	NM_000983	cg23730387F cg23732198F	3'UTR	cg23730387 cg23732198
AIM1L	NM_001039775	cg23732845F	Body	cg23732845
PI16	NM_153370	cg23737190R	Body	cg23737190
C7orf23	NM_024315	cg23737809R	Body	cg23737809
C7orf45	NM_145268	cg23739525R	Body	cg23739525
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM_001142393	cg23740652F	Body;Body;Body	cg23740652
NEDD9	NM_001142393	cg23740758R	5'UTR	cg23740758
LOC729668	NR_003524	cg23746239R cg23751171F cg23753502F cg23756768R	TSS200	cg23746239 cg23751171 cg23753502 cg23756768
HCG27	NR_026791	cg23762487F cg23763427R cg23770008R	Body	cg23762487 cg23763427 cg23770008
RHOG	NM_001665	cg23774975F cg23794200F	Body	cg23774975 cg23794200
USP36	NM_025090	cg23797032F	Body	cg23797032
TBC1D10A	NM_031937	cg23800202F	3'UTR	cg23800202
GRIK2;GRIK2;GRIK2	NM_001166247;NM_175768	cg23800248F cg23806609F	Body;Body;Body	cg23800248 cg23806609
COG1	NM_018714	cg23807559R cg23809586R	1stExon	cg23807559 cg23809586
ZP1	NM_207341	cg23816537F	TSS200	cg23816537
OSR2;OSR2	NM_053001;NM_001142462	cg23820828R	5'UTR;5'UTR	cg23820828
CADPS;CADPS;CADPS	NM_183393;NM_003716;NM_003716	cg23825335F	TSS1500;TSS1500;TSS1500	cg23825335

		cg23826980F		cg23826980
		cg23827338R		cg23827338
ZNF839	NM_018335	cg23831110F	TSS200	cg23831110
		cg23831536F		cg23831536
CRYL1	NM_015974	cg23831927R	Body	cg23831927
		cg23833543R		cg23833543
ZNF813	NM_001004301	cg23836357R	Body	cg23836357
DAPK3	NM_001348	cg23837683F	3'UTR	cg23837683
RAB37;RAB37;RAB37;RANM_001163989;NM_001163		cg23838375R	TSS200;TSS1500;Body;	cg23838375
FGFBP1	NM_005130	cg23840053R	TSS1500	cg23840053
ARHGAP24;ARHGAP24	NM_001025616;NM_001042	cg23841470R	Body;5'UTR	cg23841470
LRMP	NM_006152	cg23842870F	TSS1500	cg23842870
RPS6KA2;RPS6KA2	NM_021135;NM_001006932	cg23848614F	Body;Body	cg23848614
TMEM90B	NM_024893	cg23849311R	5'UTR	cg23849311
PRPF6	NM_012469	cg23854747R	Body	cg23854747
FAM176A;FAM176A	NM_001135032;NM_032181	cg23857238F	3'UTR;3'UTR	cg23857238
VEZF1;VEZF1	NM_007146;NM_007146	cg23857976R	5'UTR;1stExon	cg23857976
C4orf49	NM_032623	cg23860422R	TSS200	cg23860422
		cg23860436F		cg23860436
		cg23861101F		cg23861101
		cg23862395R		cg23862395
		cg23867638F		cg23867638
PVT1	NR_003367	cg23868848R	TSS200	cg23868848
		cg23871273F		cg23871273
HOXA3;HOXA3	NM_153631;NM_030661	cg23876203R	5'UTR;TSS1500	cg23876203
LOC100329109	NR_033248	cg23877512F	TSS200	cg23877512
GRID1	NM_017551	cg23877683R	Body	cg23877683
TNXB	NM_019105	cg23877734R	Body	cg23877734
		cg23879937R		cg23879937
ROCK1	NM_005406	cg23882285R	TSS200	cg23882285
		cg23884502F		cg23884502
ALS2CR8;WDR12;ALS2C	NM_024744;NM_018256;NM_024744	cg23888375R	TSS1500;1stExon;TSS1500	cg23888375
ADAM15;DCST1;ADAM1	NM_207196;NM_001143687	cg23890506R	TSS1500;3'UTR;TSS1500	cg23890506
CDYL	NR_026590	cg23893792F	TSS1500	cg23893792
NBPF9	NM_001037675	cg23894227R	Body	cg23894227
LY6G5C	NM_025262	cg23894755F	Body	cg23894755
FAM65B	NM_014722	cg23903465R	TSS200	cg23903465
TNFSF11;TNFSF11	NM_003701;NM_033012	cg23904441R	TSS1500;5'UTR	cg23904441
MIR524	NR_030200	cg23908943F	TSS1500	cg23908943
IL24;IL24	NM_006850;NM_181339	cg23909633F	TSS1500;TSS1500	cg23909633
GRIK5	NM_002088	cg23911372F	Body	cg23911372
		cg23913093R		cg23913093
SYT7	NM_004200	cg23917844R	Body	cg23917844
TIAM2	NM_012454	cg23919678F	Body	cg23919678
ADD2;ADD2;ADD2;ADD2	NM_017482;NM_017484;NM_017484	cg23921196R	5'UTR;5'UTR;5'UTR;5'UTR	cg23921196
		cg23921249R		cg23921249
		cg23922643R		cg23922643
C1orf177;C1orf177	NM_152607;NM_001110533	cg23924306F	Body;Body	cg23924306
MRPS23	NM_016070	cg23924737F	TSS1500	cg23924737
		cg23924911F		cg23924911
KDELC2	NM_153705	cg23926700R	Body	cg23926700
HEATR4	NM_203309	cg23929628R	TSS1500	cg23929628
LAMA3;LAMA3;LAMA3;NM_000227;NM_001127718		cg23931049R	TSS1500;TSS1500;Body	cg23931049
HLA-DOA	NM_002119	cg23933164R	Body	cg23933164

		cg23936681F		cg23936681
		cg23936745R		cg23936745
MAD2L1;MAD2L1	NM_002358;NM_002358	cg23945273F	5'UTR;1stExon	cg23945273
CHID1;CHID1;CHID1;CHINM	NM_001142677;NM_023947	cg23946462R	Body;Body;Body;Body;	cg23946462
CDH24;CDH24	NM_022478;NM_144985	cg23946709R	TSS1500;TSS1500	cg23946709
UNC84A;UNC84A	NM_025154;NM_001130965	cg23947450F	Body;Body	cg23947450
TBCEL;TBCEL	NM_152715;NM_001130047	cg23954629R	5'UTR;5'UTR	cg23954629
PTBP2	NM_021190	cg23954953R	TSS200	cg23954953
ITIH1;ITIH1;ITIH1;ITIH1	NM_002215;NM_001166436	cg23955200R	3'UTR;3'UTR;3'UTR;3'U	cg23955200
		cg23955334R		cg23955334
		cg23955593F		cg23955593
		cg23959474F		cg23959474
SULF1;SULF1;SULF1;SU	NM_001128204;NM_015170	cg23960781R	Body;Body;Body;Body	cg23960781
		cg23961466R		cg23961466
CSMD3;CSMD3;CSMD3	NM_198124;NM_052900;NM	cg23970028R	5'UTR;Body;Body	cg23970028
FKBP8	NM_012181	cg23970523F	5'UTR	cg23970523
		cg23973310R		cg23973310
EGFL8	NM_030652	cg23973371F	5'UTR	cg23973371
AGXT2L2	NM_153373	cg23977063F	TSS200	cg23977063
TRIM10;TRIM10	NM_006778;NM_052828	cg23977256R	Body;Body	cg23977256
PASK	NM_015148	cg23978064F	Body	cg23978064
SEPT11;SEPT11	NM_018243;NM_018243	cg23978161R	5'UTR;1stExon	cg23978161
PAIP2;PAIP2	NM_001033112;NM_016480	cg23979971R	TSS200;5'UTR	cg23979971
		cg23982574F		cg23982574
SH3D20	NM_174919	cg23982617R	5'UTR	cg23982617
		cg23982880F		cg23982880
		cg23984035F		cg23984035
IRGM	NM_001145805	cg23984305R	TSS1500	cg23984305
ACCN1;ACCN1	NM_183377;NM_001094	cg23985388F	Body;Body	cg23985388
		cg23988801R		cg23988801
		cg23990124R		cg23990124
C6orf204;BRD7P3;C6orf20	NM_0206921;NR_002730;NM	cg23990641R	Body;Body;Body	cg23990641
		cg23995446R		cg23995446
PRG3	NM_006093	cg23995769R	TSS1500	cg23995769
IGSF1;IGSF1;IGSF1	NM_001555;NM_001170962	cg23996121F	3'UTR;3'UTR;3'UTR	cg23996121
TMEM135;TMEM135;TMEM	NR_033149;NM_022918;NM	cg23996893F	Body;Body;Body	cg23996893
SLC12A7	NM_006598	cg23998435R	Body	cg23998435
		cg23998654F		cg23998654
PRDM16;PRDM16	NM_022114;NM_199454	cg23999080R	Body;Body	cg23999080
		cg23999337F		cg23999337
LCE3E	NM_178435	cg24000437R	5'UTR	cg24000437
		cg24001233R		cg24001233
DDHD2;DDHD2;DDHD2	NM_001164234;NM_001164	cg24002388R	TSS1500;TSS1500;TSS1	cg24002388
ASPG	NM_001080464	cg24003028R	Body	cg24003028
		cg24003539F		cg24003539
		cg24004178F		cg24004178
RCN1	NM_002901	cg24005743R	1stExon	cg24005743
		cg24005842F		cg24005842
LINS1;LINS1;LINS1;LINS	NM_001040616;NM_018148	cg24008435F	5'UTR;5'UTR;5'UTR;5'U	cg24008435
		cg24009250R		cg24009250
ZC3H3	NM_015117	cg24010658F	Body	cg24010658
VGLL4	NM_014667	cg24012756F	5'UTR	cg24012756
GUCY1B2	NR_003923	cg24013213R	Body	cg24013213
C19orf12;C19orf12;C19orf	NM_001031726;NM_031448	cg24016035R	1stExon;5'UTR;5'UTR	cg24016035

MICAL2	NM_014632	cg24022152F	5'UTR	cg24022152
BTNL8;BTNL8;BTNL8;BTNL8	NM_001159707;NM_001040	cg24024214R	1stExon;5'UTR;1stExon;	cg24024214
STAU1;STAU1;STAU1;STNM_004602;NM_017454;NM_027572F		cg24027572F	TSS200;TSS200;TSS200	cg24027572
EPN2;EPN2;EPN2	NM_001102664;NM_148921	cg24028141R	5'UTR;Body;Body	cg24028141
EXOSC4	NM_019037	cg24028381R	1stExon	cg24028381
SPRY4;SPRY4	NM_030964;NM_001127496	cg24029050F	3'UTR;3'UTR	cg24029050
PPP2R3A	NM_002718	cg24029308R	TSS200	cg24029308
BRSK2	NM_003957	cg24029994F	Body	cg24029994
NT5C3;NT5C3;NT5C3	NM_001002010;NM_001002	cg24031277F	1stExon;5'UTR;Body	cg24031277
ITPK1;ITPK1;ITPK1	NM_001142593;NM_014216	cg24032156F	Body;Body;Body	cg24032156
MRPS17	NM_015969	cg24033841F	Body	cg24033841
BIN2	NM_016293	cg24034957R	Body	cg24034957
PAPLN	NM_173462	cg24036523R	Body	cg24036523
PPP3CB;PPP3CB;PPP3CB	NM_001142354;NM_001142	cg24037166R	1stExon;5'UTR;1stExon;	cg24037166
		cg24037715R		cg24037715
MMP17	NM_016155	cg24039102R	Body	cg24039102
ARHGEF16	NM_014448	cg24039149R	Body	cg24039149
HS3ST3A1	NM_006042	cg24043594R	Body	cg24043594
LINGO3	NM_001101391	cg24046155F	5'UTR	cg24046155
		cg24046770R		cg24046770
PTPRQ	NM_001145026	cg24048209R	Body	cg24048209
		cg24052359R		cg24052359
PRKCZ;PRKCZ;PRKCZ	NM_001033581;NM_001033	cg24054683R	Body;Body;Body	cg24054683
		cg24057792R		cg24057792
PDE4B;PDE4B;PDE4B	NM_001037341;NM_001037	cg24058805R	Body;Body;Body	cg24058805
TARM1	NM_001135686	cg24059612R	TSS1500	cg24059612
FAM53C;FAM53C	NM_016605;NM_001135647	cg24061122R	TSS1500;TSS1500	cg24061122
TP53I11;TP53I11	NM_006034;NM_001076787	cg24061542F	5'UTR;5'UTR	cg24061542
HIST1H3G	NM_003534	cg24066601R	1stExon	cg24066601
SDHA	NM_004168	cg24069048R	Body	cg24069048
PRPF39	NM_017922	cg24069815F	5'UTR	cg24069815
CLK2	NM_003993	cg24070446F	5'UTR	cg24070446
RNF166	NM_178841	cg24071064F	Body	cg24071064
WIPI1	NM_017983	cg24073074F	Body	cg24073074
KCNQ1;KCNQ1	NM_000218;NM_181798	cg24073146F	Body;Body	cg24073146
		cg24073418R		cg24073418
ASF1B	NM_018154	cg24074054R	Body	cg24074054
		cg24075760R		cg24075760
CASZ1;CASZ1	NM_001079843;NM_017766	cg24075935R	5'UTR;5'UTR	cg24075935
LOC100128292;DLG5	NR_024585;NM_004747	cg24076633R	TSS200;TSS200	cg24076633
		cg24078359F		cg24078359
IFI35	NM_005533	cg24078767F	TSS1500	cg24078767
		cg24083720F		cg24083720
PHB	NM_002634	cg24085344R	Body	cg24085344
		cg24085895R		cg24085895
HK1;HK1;HK1;HK1;HK1	NM_033500;NM_033498;NM_033498	cg24087403R	Body;Body;Body;Body;	cg24087403
ZNF709;ZNF709;ZNF709	NM_152601;NM_001145647	cg24088775F	5'UTR;5'UTR;1stExon	cg24088775
		cg24089360F		cg24089360
		cg24090399R		cg24090399
		cg24092295R		cg24092295
KRT73	NM_175068	cg24094029F	TSS1500	cg24094029
		cg24098561F		cg24098561
		cg24100475R		cg24100475
TMEM42	NM_144638	cg24100506R	1stExon	cg24100506

		cg24105448F		cg24105448
MRPL12	NM_002949	cg24106824F	3'UTR	cg24106824
CDH18;CDH18	NM_001167667;NM_004934	cg24106898R	5'UTR;5'UTR	cg24106898
LRP5	NM_002335	cg24109739F	Body	cg24109739
GIMAP1	NM_130759	cg24116513R	TSS1500	cg24116513
AADAT;AADAT	NM_182662;NM_016228	cg24120085F	TSS1500;TSS1500	cg24120085
		cg24123645F		cg24123645
ZNF814;ZNF814	NM_001144989;NM_001144	cg24124798F	1stExon;5'UTR	cg24124798
SERINC4;C15orf63	NM_001033517;NM_016400	cg24125648F	TSS1500;TSS200	cg24125648
FRMD4A	NM_018027	cg24129198R	Body	cg24129198
TULP3;TULP3	NM_001160408;NM_003324	cg24130284F	Body;Body	cg24130284
FLJ12825;LOC100240734	NR_026655;NR_026657	cg24134056F	Body;TSS1500	cg24134056
SNX11;SNX11	NM_152244;NM_013323	cg24137448R	5'UTR;5'UTR	cg24137448
CCDC116	NM_152612	cg24144883F	TSS200	cg24144883
IL12RB2	NM_001559	cg24145272R	Body	cg24145272
PLA2G4E	NM_001080490	cg24146288F	1stExon	cg24146288
ZNF619;ZNF619;ZNF619;ZNR_026746;NM_001145094;		cg24147024F	Body;Body;Body;Body;Body	cg24147024
LOC440461	NR_027283	cg24147392R	Body	cg24147392
ARL14	NM_025047	cg24147596F	1stExon	cg24147596
EIF3H	NM_003756	cg24147840F	Body	cg24147840
TXNL4A	NM_006701	cg24148474R	TSS200	cg24148474
CTTNBP2NL	NM_018704	cg24148757F	5'UTR	cg24148757
SPATS2L;SPATS2L;SPATNM_001100422;NM_015535		cg24151841F	Body;Body;Body;Body	cg24151841
		cg24152238F		cg24152238
KCNAB2;KCNAB2	NM_003636;NM_172130	cg24152353R	Body;Body	cg24152353
SNORD115-1	NR_001291	cg24152845F	TSS1500	cg24152845
ZBTB24	NM_014797	cg24153874F	Body	cg24153874
		cg24155961R		cg24155961
C3orf26;FILIP1L;FILIP1L	NM_032359;NM_182909;NM_0156261	cg24156261F	Body;5'UTR;5'UTR	cg24156261
		cg24157219R		cg24157219
BTLA;BTLA	NM_181780;NM_001085357	cg24157392F	Body;Body	cg24157392
		cg24158032R		cg24158032
		cg24158187F		cg24158187
		cg24162465R		cg24162465
FOXJ1	NM_001454	cg24164563R	Body	cg24164563
		cg24165443R		cg24165443
CASKIN2;CASKIN2	NM_001142643;NM_020753	cg24165907R	Body;Body	cg24165907
ITGB2;ITGB2;ITGB2	NM_001127491;NM_000211	cg24167037F	5'UTR;5'UTR;1stExon	cg24167037
TFPT	NM_013342	cg24167747R	Body	cg24167747
LOXL1	NM_005576	cg24168641F	1stExon	cg24168641
		cg24170212R		cg24170212
INTS1	NM_001080453	cg24172278F	Body	cg24172278
		cg24173584F		cg24173584
PXK	NM_017771	cg24175188F	Body	cg24175188
B4GALT4;B4GALT4	NM_212543;NM_003778	cg24175311R	3'UTR;3'UTR	cg24175311
DOCK6	NM_020812	cg24181266F	Body	cg24181266
SPINT1;SPINT1;SPINT1	NM_003710;NM_001032367	cg24181311R	TSS200;TSS1500;TSS200	cg24181311
MTA1	NM_004689	cg24183741R	Body	cg24183741
MIR585;SLIT3	NR_030311;NM_003062	cg24185852R	TSS200;Body	cg24185852
		cg24186104R		cg24186104
CSNK1G3;CSNK1G3;CSNNM_001044722;NM_001031		cg24192786F	Body;Body;Body;Body	cg24192786
UTS2R	NM_018949	cg24192805R	1stExon	cg24192805
PPP1R11	NM_021959	cg24192846R	3'UTR	cg24192846
LOC349114	NR_026999	cg24195169F	Body	cg24195169

CLTCL1;CLTCL1	NM_007098;NM_001835	cg24195971F cg24200083F cg24202221F	TSS200;TSS200	cg24195971 cg24200083 cg24202221
STK24	NM_001032296	cg24202468F	Body	cg24202468
FAM47A	NM_203408	cg24203192R cg24206537R cg24209723F cg24212248F cg24212302R	1stExon	cg24203192 cg24206537 cg24209723 cg24212248 cg24212302
AGAP1;AGAP1	NM_014914;NM_001037131	cg24213248R	Body;Body	cg24213248
LRRC27;LRRC27;LRRC27	NM_001143757;NR_026559;	cg24214699R	Body;TSS200;Body;Bod	cg24214699
HDAC4	NM_006037	cg24215973F	Body	cg24215973
GUCA1A	NM_000409	cg24216990F cg24217980R	TSS1500	cg24216990 cg24217980
ZAK;ZAK	NM_016653;NM_133646	cg24218626R	Body;Body	cg24218626
RORA;RORA;RORA;ROR	NM_002943;NM_134262;NM_	cg24219929F	Body;TSS200;Body;Bod	cg24219929
CAMK1D;CAMK1D	NM_020397;NM_153498	cg24222992R cg24226851F	Body;Body	cg24222992 cg24226851
CARKD	NM_018210	cg24234827R	Body	cg24234827
CRYBB3	NM_004076	cg24240804R	3'UTR	cg24240804
PALLD;PALLD;PALLD	NM_016081;NM_001166109	cg24242290F	Body;Body;Body	cg24242290
ANKRD30A	NM_052997	cg24247673F	TSS1500	cg24247673
CLDN19;CLDN19	NM_148960;NM_001123395	cg24250588F cg24255324F	Body;Body	cg24250588 cg24255324
WWC2	NM_024949	cg24256786F	Body	cg24256786
PRAMEF22	NM_001100631	cg24274354R cg24275097F	TSS1500	cg24274354 cg24275097
ALDH3A2;ALDH3A2	NM_001031806;NM_000382	cg24275195R	Body;Body	cg24275195
FAR2	NM_018099	cg24278634F cg24279701F	5'UTR	cg24278634 cg24279701
RTF1	NM_015138	cg24280607F	Body	cg24280607
GK;GK;GK;GK;GK;GK	NM_000167;NM_001128127	cg24281651F cg24281777R cg24282516F	1stExon;5'UTR;5'UTR;5'	cg24281651 cg24281777 cg24282516
JPH2	NM_020433	cg24289219F	Body	cg24289219
CECR1;CECR1	NM_017424;NM_177405	cg24291485R	Body;TSS1500	cg24291485
CAMK2N1	NM_018584	cg24294857F cg24296569F cg24297418F cg24299847R cg24301066R	TSS200	cg24294857 cg24296569 cg24297418 cg24299847 cg24301066
SLC15A4	NM_145648	cg24301247R	Body	cg24301247
DDR1;DDR1;DDR1	NM_013993;NM_013993;NM_	cg24303888F	1stExon;5'UTR;5'UTR	cg24303888
ANKRD36	NM_001164315	cg24305683R	TSS200	cg24305683
ALPL;ALPL	NM_001127501;NM_000478	cg24307341R	3'UTR;3'UTR	cg24307341
CUX2	NM_015267	cg24309040F	Body	cg24309040
UBA7	NM_003335	cg24309076F cg24309171R	TSS1500	cg24309076 cg24309171
CCDC122;C13orf31;C13or	NM_144974;NM_001128303	cg24311251F cg24311485R	5'UTR;TSS200;TSS1500	cg24311251 cg24311485
MUC21;MUC21	NM_001010909;NM_001010	cg24311704R	1stExon;5'UTR	cg24311704
HTRA4;PLEKHA2	NM_153692;NM_021623	cg24312537R	TSS1500;3'UTR	cg24312537
SLC4A2	NM_003040	cg24316073R	3'UTR	cg24316073
HCCA2;FAM99B	NM_053005;NR_026642	cg24317122R	Body;Body	cg24317122



T-SP1	NM_198464	cg24318091F cg24319076F	Body	cg24318091 cg24319076
VDAC1	NM_003374	cg24319613F	TSS200	cg24319613
MAL2	NM_052886	cg24320065F	Body	cg24320065
LETM1	NM_012318	cg24320813R	Body	cg24320813
MAPRE3	NM_012326	cg24321774F	5'UTR	cg24321774
KRTAP10-2;C21orf29	NM_198693;NM_144991	cg24322131R	TSS200;Body	cg24322131
FXYD1;FXYD1	NM_021902;NM_005031	cg24324903R	TSS1500;TSS1500	cg24324903
ZNF10	NM_015394	cg24324942R	Body	cg24324942
GMEB1;GMEB1	NM_006582;NM_024482	cg24327491R	Body;Body	cg24327491
PTBP2	NM_021190	cg24329521F	Body	cg24329521
GSTT1	NM_000853	cg24330042R cg24330598R	1stExon	cg24330042 cg24330598
DDX50;DDX50	NM_024045;NM_024045	cg24331704F	1stExon;5'UTR	cg24331704
TIMP2	NM_003255	cg24331786R cg24332921F	Body	cg24331786 cg24332921
TNXB	NM_019105	cg24336152F	5'UTR	cg24336152
CMC1	NM_182523	cg24336718R	TSS200	cg24336718
EPHA6	NM_001080448	cg24337235F	Body	cg24337235
CHPT1	NM_020244	cg24337881F	TSS200	cg24337881
SLC29A4;SLC29A4	NM_001040661;NM_153247	cg24340453F	3'UTR;3'UTR	cg24340453
RREB1;RREB1;RREB1;RRNM	001003698;NM_001003	cg24345166F cg24345902F	Body;Body;Body;Body	cg24345166 cg24345902
IL6R;IL6R	NM_000565;NM_181359	cg24346686F	TSS1500;TSS1500	cg24346686
UBE2E1;UBE2E1	NM_003341;NM_182666	cg24346868R	Body;Body	cg24346868
IL15RA;IL15RA	NM_172200;NM_002189	cg24348573R	TSS1500;TSS1500	cg24348573
LOC619207	NR_002934	cg24349830R	TSS1500	cg24349830
HLA-F;HLA-F;HLA-F	NM_001098478;NM_001098	cg24351901F	Body;Body;Body	cg24351901
KCNK18	NM_181840	cg24353740F cg24353945R	TSS200	cg24353740 cg24353945
TBX2	NM_005994	cg24357463R	Body	cg24357463
CRYGA	NM_014617	cg24360225R	TSS200	cg24360225
SLC38A3	NM_006841	cg24363298R	TSS200	cg24363298
GPN2;GPATCH3	NM_018066;NM_022078	cg24367850R	TSS1500;3'UTR	cg24367850
CCDC149;CCDC149	NM_001130726;NM_173463	cg24371114F	Body;5'UTR	cg24371114
RPS9	NM_001013	cg24374538R	TSS1500	cg24374538
KIAA1211	NM_020722	cg24377604R	Body	cg24377604
TAF10	NM_006284	cg24378250F	Body	cg24378250
C7	NM_000587	cg24382521F	TSS1500	cg24382521
DLX3	NM_005220	cg24383056F	Body	cg24383056
UTRN	NM_007124	cg24385902R	Body	cg24385902
CCDC11	NM_145020	cg24391240R	TSS200	cg24391240
ZDHHC3;ZDHHC3;ZDHHC3	001135180;NM_016598	cg24391471R	Body;Body;Body	cg24391471
SLITRK6	NM_032229	cg24392970R	TSS200	cg24392970
DDA1	NM_024050	cg24397318F	Body	cg24397318
DCDC2	NM_016356	cg24397545F	3'UTR	cg24397545
COL9A1;COL9A1;COL9A1	001851;NM_078485;NM_078485	cg24399122R cg24399212R	Body;1stExon;5'UTR	cg24399122 cg24399212
MST1P9	NR_002729	cg24402128R cg24409440F	TSS1500	cg24402128 cg24409440
LOC100188947;HECTD2;HECTD2	NR_024467;NM_182765;NM_182765	cg24412117F	Body;Body;Body	cg24412117
MYADM;MYADM;MYADM	NR_138373;NM_001020819	cg24414182F cg24418790R	TSS200;TSS200;5'UTR	cg24414182 cg24418790
GRN	NM_002087	cg24420717F	5'UTR	cg24420717

CACNB2;CACNB2;CACNNM_201571;NM_000724;NMcg24422029F		Body;TSS1500;Body;Bo	cg24422029
	cg24422732R		cg24422732
	cg24426483R		cg24426483
	cg24427302F		cg24427302
	cg24428325R		cg24428325
G3BP2;G3BP2;G3BP2 NM_203505;NM_203504;NMcg24430528F		TSS1500;TSS1500;TSS1	cg24430528
	cg24434232F		cg24434232
ATHL1 NM_025092	cg24434988F	Body	cg24434988
C1orf159 NM_017891	cg24437834R	Body	cg24437834
PEX10;PEX10 NM_002617;NM_153818	cg24439334F	TSS1500;TSS1500	cg24439334
PLEKHA5;PLEKHA5 NM_001143821;NM_019012	cg24441383R	Body;Body	cg24441383
CCDC60 NM_178499	cg24442978R	Body	cg24442978
SPON1 NM_006108	cg24444810F	Body	cg24444810
CASP5;CASP5;CASP5;CANR_024239;NM_001136110;cg24445752F		Body;Body;Body;5'UTR	cg24445752
TMEM91;B9D2 NM_001098825;NM_030578	cg24446166F	5'UTR;TSS1500	cg24446166
HOXA11AS;HOXA11 NR_002795;NM_005523	cg24446586R	Body;TSS1500	cg24446586
DCAF6;DCAF6 NM_018442;NM_001017977	cg24449463R	Body;Body	cg24449463
SLC25A44;SLC25A44 NM_014655;NM_014655	cg24450063R	5'UTR;1stExon	cg24450063
GPR124 NM_032777	cg24450194R	Body	cg24450194
RASSF5;RASSF5 NM_182663;NM_182664	cg24450312F	1stExon;1stExon	cg24450312
TCEA3;TCEA3 NM_003196;NM_003196	cg24451422R	1stExon;5'UTR	cg24451422
DCLK1 NM_004734	cg24452588F	Body	cg24452588
COG3 NM_031431	cg24452930R	1stExon	cg24452930
C19orf53;MRI1;MRI1 NM_014047;NM_001031727	cg24453767R	TSS1500;3'UTR;3'UTR	cg24453767
HSD17B8 NM_014234	cg24455405F	TSS200	cg24455405
MDGA1 NM_153487	cg24456094F	Body	cg24456094
KRT16 NM_005557	cg24457403R	TSS1500	cg24457403
MIR573 NR_030299	cg24462263R	TSS1500	cg24462263
	cg24467535F		cg24467535
MIR1976;RPS6KA1;RPS6KANR_031740;NM_001006665;cg24468934R		TSS1500;Body;Body	cg24468934
TAP2;TAP2 NM_000544;NM_018833	cg24469596R	Body;Body	cg24469596
COBL NM_015198	cg24472823F	Body	cg24472823
FFAR1 NM_005303	cg24479552F	TSS1500	cg24479552
	cg24480765R		cg24480765
	cg24482246F		cg24482246
TAAR1 NM_138327	cg24485049R	TSS1500	cg24485049
C1orf159 NM_017891	cg24488772R	3'UTR	cg24488772
	cg24493925F		cg24493925
	cg24495044F		cg24495044
SNORA14B;TOMM20 NR_002956;NM_014765	cg24500304R	TSS200;Body	cg24500304
MSH5;MSH5;MSH5;MSH NM_172165;NM_025259;NMcg24500422R		Body;Body;Body;Body	cg24500422
	cg24500823F		cg24500823
EIF4B NM_001417	cg24502904R	TSS1500	cg24502904
CEP135 NM_025009	cg24504843F	3'UTR	cg24504843
DUOX1;DUOX1;DUOX1;NM_175940;NM_017434;NMcg24505618F		TSS200;TSS200;1stExon	cg24505618
PUS10 NM_144709	cg24505974F	Body	cg24505974
PTPRN2;PTPRN2;PTPRN2NM_002847;NM_130842;NMcg24506197F		Body;Body;Body	cg24506197
CD151;CD151;CD151;CD NM_001039490;NM_004357	cg24508095R	3'UTR;3'UTR;3'UTR;3'U	cg24508095
DDX20;C1orf183 NM_007204;NM_198926	cg24508409R	TSS200;Body	cg24508409
POLM NM_013284	cg24510909F	TSS1500	cg24510909
TF NM_001063	cg24512138R	Body	cg24512138
	cg24512770F		cg24512770
MUC1;MUC1;MUC1;MUCNM_001044391;NM_001044	cg24512973R	Body;Body;Body;Body;	cg24512973
NUP85 NM_024844	cg24517611F	Body	cg24517611

FAM135A;FAM135A	NM_020819;NM_001105531	cg24518943F cg24521756F cg24521882F cg24522489F	5'UTR;5'UTR	cg24518943 cg24521756 cg24521882 cg24522489
ADCK2	NM_052853	cg24524451F cg24525763R	TSS1500	cg24524451 cg24525763
IRS2	NM_003749	cg24526103F cg24527776R	Body	cg24526103 cg24527776
ABL2;ABL2;ABL2;ABL2;	NM_001168238;NM_005158	cg24529392F	Body;Body;Body;Body;B	cg24529392
LPHN1;LPHN1	NM_014921;NM_001008701	cg24530000F	Body;Body	cg24530000
MYBL1;MYBL1	NM_001080416;NM_001144	cg24531714R cg24532083F	3'UTR;3'UTR	cg24531714 cg24532083
SSBP3;SSBP3;SSBP3	NM_001009955;NM_018070	cg24533466F	Body;Body;Body	cg24533466
RNF216;RNF216	NM_207111;NM_207116	cg24534583F cg24534767F	Body;Body	cg24534583 cg24534767
RAB3B	NM_002867	cg24535918R cg24536120R	Body	cg24535918 cg24536120
MUC5B	NM_002458	cg24537237F	Body	cg24537237
NFATC1;NFATC1;NFATC1	NM_006162;NM_172388;NM_172388	cg24538512F	Body;Body;Body;Body	cg24538512
PCGF2	NM_007144	cg24539380R	5'UTR	cg24539380
FABP3	NM_004102	cg24539573F	TSS1500	cg24539573
PPA1	NM_021129	cg24541279F	TSS200	cg24541279
STRADA;STRADA;STRA	NM_001003788;NM_153335	cg24542492F	5'UTR;5'UTR;5'UTR;5'U	cg24542492
MBLAC1	NM_203397	cg24542725R cg24542821F cg24544003F cg24544986R cg24545908R	TSS200	cg24542725 cg24542821 cg24544003 cg24544986 cg24545908
MIR1180;B9D1	NR_031591;NM_015681	cg24547137F	TSS200;Body	cg24547137
RGS2	NM_002923	cg24547840F cg24547869F cg24549702R	3'UTR	cg24547840 cg24547869 cg24549702
GPR25	NM_005298	cg24550456R cg24551539R	TSS1500	cg24550456 cg24551539
RBPJ;RBPJ;RBPJ;RBPJ	NM_203284;NM_203283;NM_203283	cg24552391F	Body;Body;Body;Body	cg24552391
IL1F10;IL1F10	NM_173161;NM_032556	cg24553058F	Body;Body	cg24553058
TINAGL1	NM_022164	cg24554789R	Body	cg24554789
DIP2C	NM_014974	cg24562018F	Body	cg24562018
RASGEF1C	NM_175062	cg24571794R cg24574691F cg24574793R	Body	cg24571794 cg24574691 cg24574793
PNPLA8	NM_015723	cg24576298F	Body	cg24576298
HGC6.3	NM_001129895	cg24577417F	TSS1500	cg24577417
THSD1;THSD1	NM_199263;NM_018676	cg24582137R	TSS1500;TSS1500	cg24582137
GLRX3	NM_006541	cg24582500R	1stExon	cg24582500
BAK1	NM_001188	cg24583410R cg24585035R	TSS1500	cg24583410 cg24585035
MAML2	NM_032427	cg24587208R	Body	cg24587208
RP9P	NR_003500	cg24587796F	Body	cg24587796
GRK4;GRK4;GRK4	NM_001004057;NM_182982	cg24588528F	Body;Body;Body	cg24588528
RNF220	NM_018150	cg24591770F	Body	cg24591770
CNTNAP5	NM_130773	cg24592194F	Body	cg24592194
FBRSL1	NM_001142641	cg24598712F	Body	cg24598712
C1orf144;C1orf144	NM_015609;NM_001114600	cg24599859R	Body;Body	cg24599859

CEND1	NM_016564	cg24601522F cg24602560R cg24607814R	5'UTR	cg24601522 cg24602560 cg24607814
ZBTB46	NM_025224	cg24608144F	Body	cg24608144
NLRC4	NM_021209	cg24609304R	5'UTR	cg24609304
PFKFB3;PFKFB3	NM_004566;NM_001145443	cg24612923R	Body;Body	cg24612923
BOC	NM_033254	cg24620797F	Body	cg24620797
PRX;PRX	NM_020956;NM_181882	cg24623694F	TSS1500;TSS1500	cg24623694
SLC22A11	NM_018484	cg24624173F cg24625034R	Body	cg24624173 cg24625034
CAMTA1	NM_015215	cg24634746R cg24635971R	Body	cg24634746 cg24635971
CACHD1	NM_020925	cg24639703R	Body	cg24639703
FAM108C1	NM_021214	cg24640510R	Body	cg24640510
KIF26B	NM_018012	cg24641254R	Body	cg24641254
FKBP1A;FKBP1A	NM_054014;NM_000801	cg24641773F	TSS1500;TSS1500	cg24641773
CDS1	NM_001263	cg24644049R cg24645123R cg24646027R cg24651708R	TSS200	cg24644049 cg24645123 cg24646027 cg24651708
ZNF513	NM_144631	cg24655222R	Body	cg24655222
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg24655669R	Body;Body;Body	cg24655669
LOC282997	NR_026932	cg24662666F	Body	cg24662666
VANGL2	NM_020335	cg24663521F	5'UTR	cg24663521
SLC41A3	NM_001164475	cg24663845F	TSS200	cg24663845
TANC1;TANC1	NM_001145909;NM_033394	cg24664570R	TSS200;TSS200	cg24664570
BACH2;BACH2	NM_021813;NM_001170794	cg24667115F cg24669401F	5'UTR;5'UTR	cg24667115 cg24669401
PDZD4	NM_032512	cg24670916F	Body	cg24670916
MYST4	NM_012330	cg24671245R	TSS1500	cg24671245
FRMPD4	NM_014728	cg24671891F	Body	cg24671891
SH2D5;SH2D5	NM_001103161;NM_001103	cg24673385F cg24674087R cg24674215F cg24674674R	Body;Body	cg24673385 cg24674087 cg24674215 cg24674674
PFKFB1	NM_002625	cg24678243F	TSS1500	cg24678243
PRR5;PRR5-ARHGAP8;PRNM	NM_001017529;NM_181334	cg24678319F cg24680570R	5'UTR;TSS1500;TSS200	cg24678319 cg24680570
FOXJ3	NM_014947	cg24681499R	Body	cg24681499
SIL1;SIL1	NM_001037633;NM_022464	cg24683103R	5'UTR;5'UTR	cg24683103
PUM2	NM_015317	cg24684033F	Body	cg24684033
CCND3;CCND3	NM_001136017;NM_001136	cg24684349F	5'UTR;5'UTR	cg24684349
ZNHIT3	NM_004773	cg24685795R	3'UTR	cg24685795
GRAMD4	NM_015124	cg24688909R	Body	cg24688909
CYFIP1;CYFIP1	NM_014608;NM_001033028	cg24689585F	Body;Body	cg24689585
RYR2	NM_001035	cg24690236R	Body	cg24690236
VPS72	NM_005997	cg24694326F	1stExon	cg24694326
EIF3B;EIF3B	NM_003751;NM_001037283	cg24695071R	3'UTR;3'UTR	cg24695071
CD58;CD58;CD58	NM_001779;NR_026665;NM	cg24695972F cg24696268F cg24696735F cg24700515R	TSS200;TSS200;TSS200	cg24695972 cg24696268 cg24696735 cg24700515
GTF2IRD1;GTF2IRD1	NM_016328;NM_005685	cg24702341R	5'UTR;5'UTR	cg24702341
SLC16A14	NM_152527	cg24704015R	5'UTR	cg24704015

ADK;ADK	NM_001123;NM_006721	cg24704082R	Body;Body	cg24704082
LYL1	NM_005583	cg24706505R	Body	cg24706505
SH2B2	NM_020979	cg24707573F	Body	cg24707573
TRIM47	NM_033452	cg24708674F	TSS1500	cg24708674
		cg24709167R		cg24709167
TBXAS1;TBXAS1;TBXASNM_001166253;NR_029394;	cg24710631F	Body;Body;Body;Body;B	cg24710631	
SYT7	NM_004200	cg24712243F	Body	cg24712243
FAAH	NM_001441	cg24712482R	Body	cg24712482
OSBPL9;OSBPL9;OSBPL9NM_148909;NM_148906;NM	cg24713343F	TSS200;TSS200;TSS200	cg24713343	
ELAVL3;ELAVL3	NM_032281;NM_001420	cg24714497R	Body;Body	cg24714497
MAGI3;MAGI3	NM_001142782;NM_152900	cg24714913F	TSS1500;TSS1500	cg24714913
RORA	NM_134261	cg24715928R	Body	cg24715928
TAF7;TAF7	NM_005642;NM_005642	cg24717875R	5'UTR;1stExon	cg24717875
PBX1	NM_002585	cg24719489R	Body	cg24719489
KRR1;GLIPR1	NM_007043;NM_006851	cg24719912R	3'UTR;3'UTR	cg24719912
PIP5K1A;PIP5K1A;PIP5K	NM_001135638;NM_001135	cg24720336F	TSS1500;TSS1500;TSS1	cg24720336
GPR176	NM_007223	cg24722055F	3'UTR	cg24722055
KCNQ1;KCNQ1	NM_000218;NM_181798	cg24725201R	Body;Body	cg24725201
C12orf26	NM_032230	cg24726503R	Body	cg24726503
		cg24728099R		cg24728099
FABP5;FABP5	NM_001444;NM_001444	cg24728468F	1stExon;5'UTR	cg24728468
		cg24732062R		cg24732062
		cg24733093R		cg24733093
SLC43A1	NM_003627	cg24733435F	Body	cg24733435
		cg24738257R		cg24738257
TSPAN14;TSPAN14	NM_001128309;NM_030927	cg24741873R	5'UTR;5'UTR	cg24741873
CTAGE5;CTAGE5;CTAGENM_005930;NM_203356;NM	cg24743156F	TSS1500;TSS1500;TSS1	cg24743156	
SLC38A9	NM_173514	cg24749564R	Body	cg24749564
		cg24750539F		cg24750539
COLEC11;COLEC11	NM_024027;NM_199235	cg24755996R	5'UTR;5'UTR	cg24755996
SUFU;ACTR1A	NM_016169;NM_005736	cg24758173F	1stExon;TSS1500	cg24758173
ZBTB10;ZBTB10	NM_023929;NM_001105539	cg24765188R	1stExon;1stExon	cg24765188
		cg24766327R		cg24766327
RNF39;RNF39	NM_025236;NM_170769	cg24766429F	1stExon;1stExon	cg24766429
		cg24768167F		cg24768167
TMEM37	NM_183240	cg24769499F	TSS1500	cg24769499
AP3S1	NM_001284	cg24770230R	Body	cg24770230
		cg24776295R		cg24776295
HMGA2	NM_003483	cg24776736F	Body	cg24776736
MYO7A;MYO7A;MYO7ANM_000260;NM_001127180	cg24778160F	Body;Body;Body	cg24778160	
TBC1D28	NM_001039397	cg24779195R	TSS1500	cg24779195
MYBPC1;MYBPC1;MYBPNM_002465;NM_206820;NM	cg24781100R	TSS1500;TSS1500;TSS1	cg24781100	
FARPI	NM_005766	cg24785526R	Body	cg24785526
THNSL2	NM_018271	cg24787692R	TSS1500	cg24787692
USP17L2;FAM66D	NM_201402;NR_027425	cg24789143F	TSS1500;Body	cg24789143
		cg24793052F		cg24793052
C2orf34	NM_024766	cg24795614F	Body	cg24795614
		cg24795903R		cg24795903
SDK1	NM_152744	cg24796546R	Body	cg24796546
CRB3;CRB3	NM_174881;NM_139161	cg24798010R	Body;Body	cg24798010
BOPI	NM_015201	cg24800365R	Body	cg24800365
		cg24801835F		cg24801835
KLHL3	NM_017415	cg24805396R	Body	cg24805396
		cg24808105R		cg24808105

FAM198B;FAM198B;FAMNM_001128424;NM_001031	cg24811290F	5'UTR;5'UTR;5'UTR	cg24811290
PABPC1	NM_002568	TSS1500	cg24812103
	cg24812442R		cg24812442
EPS8L1;EPS8L1	NM_017729;NM_133180	Body;Body	cg24815529
INTS1	NM_001080453	Body	cg24816916
TNXB	NM_019105	Body	cg24817345
GPR158	NM_020752	Body	cg24820663
MS4A10	NM_206893	TSS200	cg24825210
NUP37	NM_024057	Body	cg24826236
	cg24826610R		cg24826610
GRIP2	NM_001080423	Body	cg24827726
	cg24828071F		cg24828071
RAB19	NM_001008749	Body	cg24838661
BAI2	NM_001703	5'UTR	cg24839533
PRKCZ;PRKCZ	NM_001033581;NM_002744	TSS1500;Body	cg24842354
	cg24842753R		cg24842753
	cg24845578R		cg24845578
NR1I2;NR1I2;NR1I2	NM_033013;NM_003889;NM_003889	Body;Body;Body	cg24846416
FBRSL1	NM_001142641	TSS1500	cg24846573
TRIM31	NM_007028	Body	cg24846791
	cg24848189F		cg24848189
	cg24851906R		cg24851906
	cg24857958R		cg24857958
	cg24864887F		cg24864887
	cg24868015R		cg24868015
	cg24871482F		cg24871482
IPCEF1;IPCEF1;IPCEF1;IPNM_001130700;NM_015553	cg24873280R	5'UTR;5'UTR;5'UTR;1st	cg24873280
MITF;MITF;MITF;MITF;NM_198178;NM_006722;NM_006722	cg24874749R	3'UTR;3'UTR;3'UTR;3'UTR	cg24874749
	cg24875440F		cg24875440
PRMT2;PRMT2	NM_001535;NM_206962	Body;Body	cg24877093
LOC728875	NR_024584	Body	cg24877190
	cg24881472R		cg24881472
	cg24882290F		cg24882290
NCRNA00171	NR_026751	Body	cg24882307
	cg24882551F		cg24882551
DNAH8	NM_001371	TSS200	cg24883664
ARHGEF10	NM_014629	Body	cg24886831
PRKCQ	NM_006257	TSS200	cg24895834
B3GNTL1	NM_001009905	Body	cg24895954
	cg24897392F		cg24897392
	cg24900923F		cg24900923
SCN5A;SCN5A;SCN5A;SCN5A	NM_001099405;NM_001099	TSS200;TSS200;TSS200	cg24902039
BAT2	NM_080686	5'UTR	cg24903176
PTPRS;PTPRS;PTPRS;PTPR	NM_130855;NM_002850;NM_002850	Body;Body;Body;Body	cg24903589
TBC1D16	NM_019020	5'UTR	cg24904992
CUGBP2;CUGBP2;CUGBP2	NM_006561;NM_001083591	Body;TSS1500;Body;TS	cg24910943
MIRLET7A3;LOC400931;NR_029478;NR_027033;NR_027033	cg24911721F	TSS200;Body;TSS1500	cg24911721
WDR88	NM_173479	TSS200	cg24912310
	cg24913110F		cg24913110
	cg24914848R		cg24914848
PCDHA7;PCDHA12;PCDHNM_018910;NM_018903;NM_018903	cg24915503F	Body;Body;Body;Body;Body	cg24915503
ARHGEF16	NM_014448	Body	cg24919884
	cg24920933F		cg24920933
	cg24924572F		cg24924572

SLC22A16	NM_033125	cg24926253R	TSS1500	cg24926253
RGS8;RGS8	NM_033345;NM_001102450	cg24928726R	Body;5'UTR	cg24928726
RAI1	NM_030665	cg24931355F	Body	cg24931355
		cg24931713R		cg24931713
OSBPL5;OSBPL5;OSBPL	NM_020896;NM_001144063	cg24931954R	5'UTR;5'UTR;5'UTR	cg24931954
		cg24932312F		cg24932312
MSH5;MSH5;MSH5;MSH	NM_172165;NM_025259;NM	cg24932925R	Body;Body;Body;Body	cg24932925
		cg24933241F		cg24933241
CYP17A1	NM_000102	cg24934431R	TSS1500	cg24934431
		cg24938372R		cg24938372
IGFL2	NM_001002915	cg24938659R	TSS1500	cg24938659
POU3F2	NM_005604	cg24942226F	TSS1500	cg24942226
		cg24942458F		cg24942458
U2AF1;U2AF1;U2AF1	NM_001025203;NM_001025	cg24947615F	Body;Body;Body	cg24947615
ZNF624	NM_020787	cg24947985F	TSS1500	cg24947985
WDR27	NM_182552	cg24948505F	5'UTR	cg24948505
UTP18	NM_016001	cg24948782F	Body	cg24948782
SDCBP2	NM_080489	cg24950749F	TSS1500	cg24950749
LLGL2;LLGL2;LLGL2	NM_001015002;NM_004524	cg24961501R	Body;Body;Body	cg24961501
ARHGAP23	NM_020876	cg24961523F	5'UTR	cg24961523
KBTBD12	NM_207335	cg24963526F	TSS1500	cg24963526
ARID5B	NM_032199	cg24964601R	Body	cg24964601
		cg24970360R		cg24970360
LOC154822	NR_024394	cg24971162F	TSS200	cg24971162
		cg24976258F		cg24976258
		cg24978686R		cg24978686
ZNF609	NM_015042	cg24981424F	Body	cg24981424
SNTG2	NM_018968	cg24982556F	Body	cg24982556
		cg24982763F		cg24982763
C21orf71	NR_024092	cg24984834F	TSS1500	cg24984834
		cg24985372R		cg24985372
		cg24985715R		cg24985715
KLHL7;KLHL7	NM_001031710;NM_018846	cg24990022F	Body;Body	cg24990022
		cg24990400R		cg24990400
		cg24994002R		cg24994002
		cg24996200R		cg24996200
PTPRN2;PTPRN2;PTPRN	NM_002847;NM_130842;NM	cg24996491R	Body;Body;Body	cg24996491
		cg25000021F		cg25000021
DNAH2	NM_020877	cg25000600F	TSS1500	cg25000600
FCF1	NM_015962	cg25001845F	3'UTR	cg25001845
BCL9	NM_004326	cg25004385R	3'UTR	cg25004385
LASS3	NM_178842	cg25004981F	TSS200	cg25004981
TUBGCP2	NM_006659	cg25005279R	Body	cg25005279
		cg25007484F		cg25007484
		cg25008182F		cg25008182
RCC2;RCC2	NM_018715;NM_001136204	cg25009141R	Body;Body	cg25009141
FRS3;PRICKLE4;PRICKL	NM_006653;NM_013397;NM	cg25009629R	TSS1500;1stExon;5'UTR	cg25009629
CNTROB;TRAPPC1;CNT	NM_001037144;NM_021210	cg25011395R	TSS1500;Body;TSS1500	cg25011395
		cg25011921R		cg25011921
		cg25012583R		cg25012583
		cg25016964R		cg25016964
		cg25017223R		cg25017223
TOP3A	NM_004618	cg25019549F	Body	cg25019549
USP46;USP46	NM_022832;NM_022832	cg25019777R	1stExon;5'UTR	cg25019777

PI4K2B	NM_018323	cg25020699R cg25020810F	Body	cg25020699 cg25020810
MED24;MED24	NM_001079518;NM_014815	cg25023262R	TSS200;TSS200	cg25023262
COL1A1	NM_000088	cg25026926R	Body	cg25026926
EIF2C2;EIF2C2	NM_001164623;NM_012154	cg25029360F	TSS1500;TSS1500	cg25029360
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg25029446F cg25030049R	Body;Body;Body	cg25029446 cg25030049
SPATS2	NM_023071	cg25030549F cg25030802F cg25032865F	5'UTR	cg25030549 cg25030802 cg25032865
KCNC1;KCNC1	NM_004976;NM_001112741	cg25033364F cg25033470F	Body;Body	cg25033364 cg25033470
HPSE2;HPSE2;HPSE2;HPSE2	NM_001166244;NM_001166244	cg25034395F	TSS1500;TSS1500;TSS1500	cg25034395
APOL5	NM_030642	cg25036527R	Body	cg25036527
RNF141	NM_016422	cg25040934F	3'UTR	cg25040934
HYLS1	NM_145014	cg25041439F	TSS1500	cg25041439
WDR20;WDR20;WDR20	NM_181302;NM_181291;NM_181291	cg25043643F cg25047058R cg25047379R	Body;Body;Body;Body	cg25043643 cg25047058 cg25047379
KIF7	NM_198525	cg25047469R cg25055120R	5'UTR	cg25047469 cg25055120
DES	NM_001927	cg25059588F	Body	cg25059588
UGT1A10;UGT1A6;UGT1A6	NM_019075;NM_205862;NM_205862	cg25060243R	Body;Body;Body;Body	cg25060243
CLPTMIL	NM_030782	cg25070340F	Body	cg25070340
CASP8;CASP8;CASP8;CASP8	NM_001080124;NM_001080124	cg25073137R	5'UTR;Body;5'UTR;5'UTR	cg25073137
KIAA0284;KIAA0284	NM_015005;NM_001112726	cg25073967F cg25075195F cg25075776F	Body;Body	cg25073967 cg25075195 cg25075776
MPZL2;MPZL2	NM_005797;NM_144765	cg25076325R cg25080115F	TSS1500;TSS1500	cg25076325 cg25080115
TRIM8	NM_030912	cg25080465R cg25088879F	TSS200	cg25080465 cg25088879
LZTS2	NM_032429	cg25095351R	TSS1500	cg25095351
LOC645166;LOC645166;LOC645166	NR_027354;NR_027356;NR_027356	cg25095697R	TSS1500;Body;Body	cg25095697
SCNN1A;SCNN1A;SCNN1A;SCNN1A	NM_001159575;NM_001159575	cg25098281F	Body;TSS1500;1stExon;	cg25098281
FN1;FN1;FN1;FN1;FN1;FN1	NM_212475;NM_212476;NM_212476	cg25099021R	Body;Body;Body;Body;Body;Body	cg25099021
MGAT4B;MGAT4B	NM_014275;NM_054013	cg25103161R	Body;TSS1500	cg25103161
FAM72B	NM_001100910	cg25103766R cg25104868F	TSS1500	cg25103766 cg25104868
LOC728407;PARG	NR_029388;NM_003631	cg25108740R cg25108988R	Body;Body	cg25108740 cg25108988
PSMB9;PSMB9;TAP1	NM_002800;NM_148954;NM_148954	cg25110511R	TSS1500;TSS1500;1stExon	cg25110511
RAP1B;RAP1B	NM_015646;NM_001010942	cg25113008F	Body;Body	cg25113008
SUZ12P	NR_024187	cg25115829R	TSS1500	cg25115829
HPCAL1;HPCAL1	NM_002149;NM_134421	cg25117062R	TSS1500;TSS1500	cg25117062
BNIP3	NM_004052	cg25123362F	Body	cg25123362
KCNIP2;KCNIP2;KCNIP2	NM_173195;NM_173192;NM_173192	cg25123470F cg25123564R cg25123670F cg25125340F	TSS200;TSS200;TSS200	cg25123470 cg25123564 cg25123670 cg25125340
DPP8;DPP8;DPP8;DPP8	NM_017743;NM_197961;NM_197961	cg25130390R	TSS200;TSS200;TSS1500	cg25130390
CEP72	NM_018140	cg25130671F	Body	cg25130671
UBE2D2;UBE2D2	NM_181838;NM_003339	cg25134306R cg25134529F	5'UTR;Body	cg25134306 cg25134529



IL6R;IL6R	NM_181359;NM_000565	cg25135018R	Body;Body	cg25135018
RPL36;RPL36	NM_015414;NM_033643	cg25136310F	1stExon;Body	cg25136310
ATG9B;NOS3	NM_173681;NM_000603	cg25136644F	3'UTR;Body	cg25136644
C13orf35	NM_207440	cg25137436R	TSS1500	cg25137436
		cg25137787R		cg25137787
		cg25137918F		cg25137918
KCNJ4	NM_152868	cg25142308F	TSS200	cg25142308
PACRG;PACRG;PACRG	NM_152410;NM_001080378	cg25143247F	Body;Body;Body	cg25143247
SH3PXD2B	NM_001017995	cg25145840R	Body	cg25145840
		cg25151104R		cg25151104
DPP6;DPP6	NM_130797;NM_001039350	cg25154270F	Body;Body	cg25154270
		cg25154363R		cg25154363
MPZL3	NM_198275	cg25155064F	Body	cg25155064
		cg25157107R		cg25157107
		cg25157325F		cg25157325
SLC43A3;SLC43A3;SLC43A3	NM_014096;NM_199329;NM_001080378	cg25157604R	Body;Body;Body	cg25157604
PLK2	NM_006622	cg25159610R	TSS1500	cg25159610
UBE2E1;UBE2E1	NM_003341;NM_182666	cg25166168R	Body;Body	cg25166168
C7orf36	NM_020192	cg25166340F	TSS200	cg25166340
		cg25172307F		cg25172307
KCNQ1;KCNQ1	NM_000218;NM_181798	cg25173341R	Body;Body	cg25173341
		cg25174364R		cg25174364
ENTPD1;ENTPD1	NM_001098175;NM_001098	cg25174439F	5'UTR;1stExon	cg25174439
		cg25175900F		cg25175900
PIP4K2A	NM_005028	cg25178565F	Body	cg25178565
		cg25181907R		cg25181907
		cg25184724F		cg25184724
FGR;FGR;FGR	NM_001042747;NM_005248	cg25186909R	5'UTR;5'UTR;5'UTR	cg25186909
		cg25187967F		cg25187967
AMMECR1L	NM_031445	cg25188141F	5'UTR	cg25188141
DFFB	NM_004402	cg25190722F	3'UTR	cg25190722
		cg25192591R		cg25192591
SNORD115-15;SNORD115	NR_003307;NR_003313;NR_003313	cg25195643R	Body;Body;TSS200	cg25195643
CGN	NM_020770	cg25198049F	Body	cg25198049
		cg25198599F		cg25198599
KBTBD12	NM_207335	cg25201789R	3'UTR	cg25201789
CAMTA1	NM_015215	cg25202269F	Body	cg25202269
BRAF	NM_004333	cg25204078F	TSS1500	cg25204078
STARD10	NM_006645	cg25205121R	Body	cg25205121
C6orf41;GUSBL1	NR_026775;NR_003504	cg25206565R	TSS1500;Body	cg25206565
SLC25A44;SLC25A44	NM_014655;NM_014655	cg25208724F	5'UTR;1stExon	cg25208724
		cg25209552F		cg25209552
SNORD115-15;SNORD115	NR_003307;NR_003313;NR_003313	cg25211267F	Body;Body;Body	cg25211267
CACNA2D3	NM_018398	cg25214305R	Body	cg25214305
		cg25215028F		cg25215028
SHISA6	NM_207386	cg25215117R	3'UTR	cg25215117
SAMD11	NM_152486	cg25215298F	TSS1500	cg25215298
TSPAN5	NM_005723	cg25217895R	Body	cg25217895
		cg25218152F		cg25218152
		cg25218797F		cg25218797
ZHX2	NM_014943	cg25220460R	TSS1500	cg25220460
GUCY1A2	NM_000855	cg25221281R	Body	cg25221281
SLC39A6;SLC39A6	NM_012319;NM_001099406	cg25221532F	Body;Body	cg25221532
UVRAG	NM_003369	cg25223391F	Body	cg25223391

		cg25223771R		cg25223771
		cg25224330R		cg25224330
PLCH1	NM_014996	cg25234117R	TSS1500	cg25234117
		cg25236837F		cg25236837
ANKRD17;ANKRD17	NM_198889;NM_032217	cg25237898F	Body;Body	cg25237898
EMR1	NM_001974	cg25247636R	3'UTR	cg25247636
WDR17;WDR17	NM_181265;NM_170710	cg25249713R	Body;Body	cg25249713
		cg25252777R		cg25252777
		cg25253424F		cg25253424
C1orf113;C1orf113	NM_024676;NM_001162530	cg25263898F	Body;Body	cg25263898
SNORD115-8	NR_003300	cg25265805R	TSS1500	cg25265805
NFE2L2;NFE2L2;NFE2L2	NM_006164;NM_001145413	cg25268435F	Body;5'UTR;5'UTR	cg25268435
FDXR;FDXR	NM_024417;NM_004110	cg25268537F	Body;Body	cg25268537
AGBL4	NM_032785	cg25271930R	Body	cg25271930
TRIM62	NM_018207	cg25274008R	TSS1500	cg25274008
C1orf125;C1orf125	NM_182766;NM_144696	cg25276223R	TSS1500;TSS1500	cg25276223
		cg25278126F		cg25278126
OR6P1	NM_001160325	cg25280720R	1stExon	cg25280720
TRAF3IP2;TRAF3IP2;TRANR	028338;NM_001164281;cg25282285R		Body;Body;Body;TSS20	cg25282285
ADAM11	NM_002390	cg25282715R	Body	cg25282715
SCMH1;SCMH1	NM_012236;NM_001031694	cg25285041R	5'UTR;TSS1500	cg25285041
MLLT6	NM_005937	cg25288807F	Body	cg25288807
COL12A1;COL12A1	NM_004370;NM_080645	cg25290482R	Body;Body	cg25290482
		cg25290779F		cg25290779
		cg25290888F		cg25290888
POP1;POP1;POP1;HRSP12	NM_015029;NM_001145860	cg25291941R	TSS1500;TSS1500;TSS1500	cg25291941
		cg25294651F		cg25294651
		cg25295453F		cg25295453
EFHA1	NM_152726	cg25299201F	TSS200	cg25299201
		cg25300318F		cg25300318
		cg25302784F		cg25302784
RAD54B	NM_012415	cg25305774F	Body	cg25305774
VTA1	NM_016485	cg25312474R	1stExon	cg25312474
FSD1	NM_024333	cg25312546F	Body	cg25312546
FAM19A2	NM_178539	cg25313447F	5'UTR	cg25313447
ZSWIM6	NM_020928	cg25314134R	Body	cg25314134
PGAM5;PGAM5;PGAM5	NM_138575;NM_001170544	cg25314152F	3'UTR;Body;Body	cg25314152
		cg25314460R		cg25314460
ABCF1;ABCF1	NM_001090;NM_001025091	cg25315493F	Body;Body	cg25315493
GNA12	NM_007353	cg25318189F	Body	cg25318189
		cg25321854R		cg25321854
DENND3	NM_014957	cg25322632R	Body	cg25322632
		cg25323888R		cg25323888
CSHL1;CSHL1;CSHL1;CS	NM_022579;NM_022580;NM_022581	cg25324976R	TSS1500;TSS1500;TSS1500	cg25324976
		cg25325615R		cg25325615
PRKD2;PRKD2;PRKD2;P	NM_001079880;NM_001079	cg25326090F	Body;Body;Body;Body	cg25326090
C10orf28	NM_014472	cg25327233F	5'UTR	cg25327233
FAM168A;FAM168A	NM_015159;NM_015159	cg25327839R	5'UTR;1stExon	cg25327839
C4orf21	NM_018392	cg25329296F	Body	cg25329296
C1QTNF1;C1QTNF1;C1Q	NM_198593;NM_198594;NM_198595	cg25330016R	TSS200;5'UTR;5'UTR	cg25330016
AP1B1;AP1B1;AP1B1;AP1	NM_145730;NM_001166019	cg25337570F	1stExon;5'UTR;1stExon;	cg25337570
		cg25341687F		cg25341687
ADCK4;ITPKC	NM_024876;NM_025194	cg25342397R	TSS200;TSS200	cg25342397
		cg25342481R		cg25342481

FAM172A;FAM172A;POUNR_028080;NM_032042;NMcg25342875R			Body;Body;1stExon;Bodcg25342875
BOPI	NM_015201	cg25344017F	Body cg25344017
NRF1;NRF1	NM_005011;NM_001040110	cg25346444R	Body;Body cg25346444
GPR177;GPR177	NM_001002292;NM_024911	cg25350057R	Body;Body cg25350057
HYMAI;PLAGL1;PLAGL1NR_002768;NM_001080956;		cg25350411R	Body;5'UTR;5'UTR;5'UTcg25350411
		cg25351763F	cg25351763
POLN	NM_181808	cg25354655R	Body cg25354655
CRTAP	NM_006371	cg25354716R	Body cg25354716
		cg25356457R	cg25356457
		cg25357512F	cg25357512
RARA	NM_000964	cg25362050F	5'UTR cg25362050
MAST3	NM_015016	cg25362169R	Body cg25362169
PCBD1	NM_000281	cg25363622R	TSS200 cg25363622
KLHL29	NM_052920	cg25365034F	Body cg25365034
		cg25365370R	cg25365370
TRIM26	NM_003449	cg25367940R	Body cg25367940
		cg25368049F	cg25368049
		cg25371950R	cg25371950
CYHR1	NM_138496	cg25372841F	3'UTR cg25372841
BCL2	NM_000633	cg25373630F	Body cg25373630
CHMP6	NM_024591	cg25376409F	3'UTR cg25376409
IL5RA;IL5RA;IL5RA;IL5RNM_175727;NM_000564;NMcg25381017R		cg25381017R	5'UTR;5'UTR;1stExon;5'cg25381017
		cg25382764F	cg25382764
CNTNAP4;CNTNAP4	NM_033401;NM_138994	cg25383242F	Body;TSS200 cg25383242
		cg25386411R	cg25386411
EBF3	NM_001005463	cg25386707F	Body cg25386707
C2orf54;C2orf54	NM_001085437;NM_024861	cg25390334R	Body;Body cg25390334
		cg25390413F	cg25390413
ATF6B;ATF6B	NM_004381;NM_001136153	cg25392500R	Body;Body cg25392500
		cg25393284R	cg25393284
LRP5	NM_002335	cg25393429F	Body cg25393429
CMPK2	NM_207315	cg25396690R	TSS200 cg25396690
BRUNOL4;BRUNOL4;BRNM_001025089;NM_001025		cg25399162F	3'UTR;3'UTR;3'UTR;3'Ucg25399162
MAST4;MAST4	NM_015183;NM_001164664	cg25399309F	Body;Body cg25399309
C5orf44;C5orf44;C5orf44;CNM_001093755;NM_001093		cg25400753F	Body;Body;Body;Body cg25400753
		cg25403283R	cg25403283
		cg25404033F	cg25404033
		cg25405719R	cg25405719
MEST;MEST;MEST;MESTNM_002402;NM_177524;NMcg25407198F		cg25407198F	TSS1500;5'UTR;5'UTR;Tcg25407198
MIER1;WDR78;MIER1;MINNM_020948;NM_024763;NMcg25408008R		cg25408008R	5'UTR;TSS1500;5'UTR;cg25408008
		cg25412230R	cg25412230
ARHGAP9;ARHGAP9	NM_001080157;NM_032496	cg25413125R	TSS1500;TSS1500 cg25413125
		cg25413298F	cg25413298
		cg25414639R	cg25414639
MGAT5	NM_002410	cg25415989R	TSS1500 cg25415989
ZNF282	NM_003575	cg25416230R	Body cg25416230
		cg25416319R	cg25416319
CCDC159;TMEM205;TMENM_001080503;NM_198536		cg25420298R	TSS1500;5'UTR;5'UTR;cg25420298
MGC16275;TTYH2	NR_026914;NM_032646	cg25422089F	TSS1500;Body cg25422089
SNX8	NM_013321	cg25422992R	Body cg25422992
HDAC4	NM_006037	cg25424642F	Body cg25424642
		cg25428177R	cg25428177
B3GNTL1	NM_001009905	cg25428213R	Body cg25428213
		cg25428810R	cg25428810

UCP2	NM_003355	cg25428846R	5'UTR	cg25428846
C10orf41;ZNF503	NR_024421;NM_032772	cg25429672R	Body;TSS200	cg25429672
MRC2	NM_006039	cg25433267F	Body	cg25433267
ASAH1;ASAH1;ASAH1	NM_177924;NM_004315;NM_004315	cg25436245R	TSS200;Body;Body	cg25436245
		cg25437947F		cg25437947
		cg25440671F		cg25440671
MYO1E	NM_004998	cg25443137R	Body	cg25443137
SIM2;SIM2	NM_009586;NM_005069	cg25446076R	Body;Body	cg25446076
PP14571;GPC1	NR_024014;NM_002081	cg25446612R	TSS1500;Body	cg25446612
		cg25449970F		cg25449970
OCA2	NM_000275	cg25454647R	Body	cg25454647
TBCA	NM_004607	cg25455811R	TSS1500	cg25455811
		cg25456633R		cg25456633
COL11A2;COL11A2;COL11A2	NM_080679;NM_001163771	cg25459558F	TSS1500;TSS1500;TSS1500	cg25459558
CASZ1;CASZ1	NM_001079843;NM_017766	cg25463742F	5'UTR;5'UTR	cg25463742
ARHGEF4;ARHGEF4	NM_032995;NM_015320	cg25464702F	Body;Body	cg25464702
HMCN1	NM_031935	cg25467710F	Body	cg25467710
CUBN	NM_001081	cg25469714R	Body	cg25469714
GREB1;GREB1;GREB1	NM_148903;NM_014668;NM_014668	cg25472172F	5'UTR;5'UTR;5'UTR	cg25472172
IL3	NM_000588	cg25474070R	TSS1500	cg25474070
PARP10	NM_032789	cg25477843F	TSS1500	cg25477843
		cg25479535R		cg25479535
C18orf2;C18orf2;C18orf2	CNR_023928;NR_023925;NR_023925	cg25481999F	TSS1500;TSS1500;TSS1500	cg25481999
PC;PC;PC	NM_022172;NM_000920;NM_000920	cg25483596R	Body;Body;Body	cg25483596
CALB1	NM_004929	cg25492971F	3'UTR	cg25492971
GPIHBP1;GPIHBP1	NM_178172;NM_178172	cg25496417R	5'UTR;1stExon	cg25496417
PTPRN2;PTPRN2;PTPRN2	NM_002847;NM_130842;NM_130842	cg25497530R	Body;Body;Body	cg25497530
		cg25500001R		cg25500001
		cg25500642R		cg25500642
		cg25503169F		cg25503169
FASN	NM_004104	cg25503540R	Body	cg25503540
		cg25504607F		cg25504607
DNAJB6	NM_058246	cg25507226R	Body	cg25507226
		cg25507406F		cg25507406
		cg25507885R		cg25507885
		cg25508321R		cg25508321
TRIP10	NM_004240	cg25510018F	Body	cg25510018
		cg25511730F		cg25511730
RPS6KA2	NM_001006932	cg25512188R	Body	cg25512188
		cg25513230F		cg25513230
		cg25513740F		cg25513740
		cg25514148F		cg25514148
		cg25514992F		cg25514992
MAPRE3	NM_012326	cg25515091R	5'UTR	cg25515091
RFTN2	NM_144629	cg25517103R	Body	cg25517103
LOC100132215	NR_027069	cg25518132F	Body	cg25518132
NCRNA00171	NR_026751	cg25523332F	Body	cg25523332
VSTM2A	NM_182546	cg25528143R	TSS1500	cg25528143
CHCHD2	NM_016139	cg25529965R	1stExon	cg25529965
CLOCK	NM_004898	cg25530661F	3'UTR	cg25530661
LOC100133991	NR_024434	cg25533943R	Body	cg25533943
TREML4	NM_198153	cg25535435F	TSS1500	cg25535435
		cg25537245R		cg25537245
REXO1	NM_020695	cg25538450R	Body	cg25538450

LPAR6;LPAR6;RB1	NM_001162497;NM_005767	cg25540028R	TSS200;5'UTR;Body	cg25540028
NADSYN1	NM_018161	cg25543401R	Body	cg25543401
ARX	NM_139058	cg25545920R	Body	cg25545920
ONECUT2	NM_004852	cg25547580F	1stExon	cg25547580
		cg25550629R		cg25550629
RASA3	NM_007368	cg25550913R	Body	cg25550913
SOX30;SOX30	NM_178424;NM_007017	cg25551243F	TSS200;TSS200	cg25551243
		cg25551551F		cg25551551
JAKMIP3	NM_001105521	cg25553466R	Body	cg25553466
		cg25554740F		cg25554740
KCNQ1;KCNQ1	NM_000218;NM_181798	cg25554751F	Body;Body	cg25554751
LRP2	NM_004525	cg25554917F	TSS1500	cg25554917
TOX4;RAB2B;RAB2B;TO	NM_014828;NM_032846;NM_032846	cg25556343R	1stExon;TSS1500;TSS1500	cg25556343
SLC26A11;SLC26A11;SLC26A11	NM_0173626;NM_001166349	cg25561754F	Body;Body;Body;Body;	cg25561754
TLN2	NM_015059	cg25563032R	Body	cg25563032
		cg25568703R		cg25568703
DGKB;DGKB	NM_145695;NM_004080	cg25570453F	Body;Body	cg25570453
PPP2CA	NM_002715	cg25574672R	TSS200	cg25574672
SOX12	NM_006943	cg25575688F	TSS1500	cg25575688
AHR	NM_001621	cg25577322R	TSS200	cg25577322
		cg25577809F		cg25577809
MIR372;MIR371;MIR373	NR_029865;NR_029864;NR_029864	cg25579656F	TSS1500;TSS1500;TSS1500	cg25579656
SPARC;SPARC	NM_003118;NM_003118	cg25587069R	1stExon;5'UTR	cg25587069
C6orf105;C6orf105	NM_032744;NM_001143948	cg25589070F	Body;Body	cg25589070
GRB2;GRB2	NM_002086;NM_203506	cg25589929F	5'UTR;5'UTR	cg25589929
		cg25590811R		cg25590811
IL1RAP;IL1RAP;IL1RAP;	NM_001167930;NM_001167930	cg25593022R	Body;Body;Body;Body;Body;	cg25593022
TPM4;TPM4;TPM4	NM_001145160;NM_003290	cg25593560F	Body;1stExon;5'UTR	cg25593560
		cg25595449F		cg25595449
BAG5;BAG5;BAG5;BAG5	NM_001015049;NM_001015049	cg25595571F	TSS1500;5'UTR;1stExon	cg25595571
		cg25597138F		cg25597138
		cg25598062F		cg25598062
LOC440839	NR_029399	cg25598710R	Body	cg25598710
ATP2A3;ATP2A3;ATP2A3	NM_174954;NM_174955;NM_174955	cg25599198F	Body;Body;Body;Body;Body;	cg25599198
		cg25600692R		cg25600692
ATG16L2	NM_033388	cg25601661F	TSS200	cg25601661
ANKRD2;ANKRD2	NM_020349;NM_001129981	cg25604594R	Body;Body	cg25604594
CALR	NM_004343	cg25605731R	Body	cg25605731
SLC6A9;SLC6A9;SLC6A9	NM_001024845;NM_201649	cg25605771R	Body;Body;Body	cg25605771
ELK4;ELK4	NM_001973;NM_021795	cg25611443R	TSS1500;TSS1500	cg25611443
LIMA1;MIR1293;LIMA1	NM_001113546;NR_031625;	cg25615890R	Body;TSS1500;Body	cg25615890
CHFR;CHFR;CHFR;CHFR	NM_001161345;NM_001161345	cg25618597R	Body;Body;Body;Body;Body;	cg25618597
		cg25618672F		cg25618672
CDC42SE1;CDC42SE1;CDNM_001038707;NM_020239		cg25621096R	5'UTR;1stExon;5'UTR;TSS200	cg25621096
AP2A2	NM_012305	cg25622317F	Body	cg25622317
JAK3	NM_000215	cg25623545F	Body	cg25623545
CDCP1	NM_022842	cg25624887F	3'UTR	cg25624887
TMEM132D	NM_133448	cg25625370R	Body	cg25625370
		cg25625616F		cg25625616
RTN4RL2	NM_178570	cg25625670R	Body	cg25625670
		cg25625985R		cg25625985
PIPSL	NR_002319	cg25626012R	Body	cg25626012
CILP2	NM_153221	cg25627242F	Body	cg25627242
OSBPL5;OSBPL5;OSBPL5	NM_020896;NM_001144063	cg25627263R	5'UTR;5'UTR;5'UTR	cg25627263

LOC100130872-SPON2	NR_033182	cg25627726F	Body	cg25627726
ENGASE	NM_001042573	cg25629442F	TSS200	cg25629442
		cg25631688F		cg25631688
CCDC55	NM_032141	cg25633045F	Body	cg25633045
		cg25640297R		cg25640297
NXN	NM_022463	cg25647823R	Body	cg25647823
		cg25649641F		cg25649641
ZNF431	NM_133473	cg25650185R	TSS200	cg25650185
		cg25651118F		cg25651118
		cg25653802F		cg25653802
RP11-529I10.4	NM_015448	cg25653886R	Body	cg25653886
		cg25653947F		cg25653947
ALDH3A2;ALDH3A2	NM_001031806;NM_000382	cg25658641R	Body;Body	cg25658641
		cg25661792F		cg25661792
SPTBN4;SPTBN4	NM_025213;NM_020971	cg25665622F	5'UTR;Body	cg25665622
FLJ25363	NM_001145553	cg25666660R	TSS200	cg25666660
		cg25669494R		cg25669494
GALNT9	NM_001122636	cg25670567F	Body	cg25670567
FAM13A;FAM13A	NM_014883;NM_001015045	cg25671242R	Body;Body	cg25671242
TSPO;TSPO	NM_000714;NM_007311	cg25672027R	Body;5'UTR	cg25672027
		cg25673591R		cg25673591
NDST1	NM_001543	cg25677709F	5'UTR	cg25677709
		cg25680105R		cg25680105
TNFRSF19	NM_148957	cg25683489F	Body	cg25683489
CDKN2D;KRI1;CDKN2D	NM_079421;NM_023008;NM_023008	cg25685983R	3'UTR;TSS1500;3'UTR	cg25685983
ADAMTS10	NM_030957	cg25691026R	Body	cg25691026
FAM53B	NM_014661	cg25699052R	Body	cg25699052
		cg25703554F		cg25703554
SMOC2;SMOC2	NM_022138;NM_001166412	cg25703864F	Body;Body	cg25703864
CAPN10;CAPN10;CAPN1	NM_021251;NM_023083;NM_023083	cg25704749R	1stExon;1stExon;1stExo	cg25704749
PRB3	NM_006249	cg25705255R	TSS1500	cg25705255
		cg25705266F		cg25705266
SLC35A5	NM_017945	cg25707238F	3'UTR	cg25707238
ORC2L	NM_006190	cg25714096F	TSS1500	cg25714096
		cg25714865F		cg25714865
TBC1D22A	NM_014346	cg25718361F	Body	cg25718361
		cg25720885F		cg25720885
KCNIP2;KCNIP2;KCNIP2	NM_173195;NM_173191;NM_173191	cg25723614R	Body;Body;Body;Body;Body	cg25723614
UGT1A10;UGT1A6;UGT1	NM_019075;NM_205862;NM_205862	cg25726425R	Body;Body;Body;Body;Body	cg25726425
FZD5	NM_003468	cg25727806R	TSS200	cg25727806
PHIP	NM_017934	cg25728543F	Body	cg25728543
		cg25729466R		cg25729466
		cg25730401F		cg25730401
		cg25730666R		cg25730666
		cg25731866F		cg25731866
IGF1R	NM_000875	cg25733445F	Body	cg25733445
		cg25734951F		cg25734951
C21orf57;C21orf57;MCM3	NM_058181;NM_001006114	cg25737836F	TSS1500;TSS1500;1stE	cg25737836
		cg25737891F		cg25737891
DCAF6;DCAF6	NM_018442;NM_001017977	cg25738037R	Body;Body	cg25738037
CCKBR	NM_176875	cg25740457F	3'UTR	cg25740457
FLJ23834	NM_152750	cg25747783R	TSS200	cg25747783
KATNAL2	NM_031303	cg25748121F	5'UTR	cg25748121
COX17	NM_005694	cg25748542F	3'UTR	cg25748542

BAP1;PHF7;BAP1;PHF7	NM_004656;NM_173341;NM_001005376	cg25749966F	1stExon;TSS1500;5'UTR	cg25749966
PLAUR;PLAUR;PLAUR	NM_002659;NM_001005376	cg25750408R	Body;Body;Body	cg25750408
KIAA1257	NM_020741	cg25752703F	Body	cg25752703
BAHCC1	NM_001080519	cg25754933R	Body	cg25754933
ZNF254	NM_203282	cg25764131R	3'UTR	cg25764131
ANKRD54	NM_138797	cg25764839R	Body	cg25764839
		cg25767896R		cg25767896
		cg25770169F		cg25770169
NR2E1	NM_003269	cg25775494F	Body	cg25775494
RPS6KA2;RPS6KA2	NM_021135;NM_001006932	cg25781711F	Body;Body	cg25781711
NHSL1;NHSL1	NM_001144060;NM_020464	cg25781936R	Body;Body	cg25781936
UBE3C	NM_014671	cg25782682F	Body	cg25782682
AIRE;AIRE	NM_000658;NM_000383	cg25783241F	Body;Body	cg25783241
		cg25783515F		cg25783515
		cg25785155F		cg25785155
LOC649395	NR_029404	cg25791123F	Body	cg25791123
		cg25793785R		cg25793785
EPHA5;EPHA5	NM_004439;NM_182472	cg25798792R	1stExon;1stExon	cg25798792
		cg25799241R		cg25799241
		cg25801746F		cg25801746
KIAA1949;KIAA1949;KIANM_001134870;NM_133471	cg25807071F	cg25807071F	TSS1500;5'UTR;1stExon	cg25807071
PITPNM3;PITPNM3	NM_031220;NM_001165966	cg25808892R	Body;Body	cg25808892
ZNF324B	NM_207395	cg25809066R	TSS1500	cg25809066
FBRSL1	NM_001142641	cg25809722F	Body	cg25809722
TPP2	NM_003291	cg25810455R	Body	cg25810455
RASAL1	NM_004658	cg25815027R	Body	cg25815027
HOOK2;HOOK2;HOOK2;HOOK2	NM_013312;NM_001100176	cg25818882F	5'UTR;5'UTR;1stExon;1stExon	cg25818882
		cg25820223F		cg25820223
		cg25820728F		cg25820728
LPAR2	NM_004720	cg25822264F	Body	cg25822264
BEND2	NM_153346	cg25823790R	TSS200	cg25823790
		cg25824209F		cg25824209
MLLT1	NM_005934	cg25825726F	Body	cg25825726
FASN	NM_004104	cg25825740R	3'UTR	cg25825740
COL18A1;COL18A1;COL18A1	NM_130444;NM_030582;NM_001006932	cg25829961F	Body;Body;Body	cg25829961
TULP1	NM_003322	cg25830052R	Body	cg25830052
AQP6	NM_001652	cg25832084F	TSS1500	cg25832084
BRSK2	NM_003957	cg25836589F	Body	cg25836589
SPINK2	NM_021114	cg25836827R	Body	cg25836827
		cg25843111R		cg25843111
		cg25844587F		cg25844587
HBP1	NM_012257	cg25845688R	5'UTR	cg25845688
WDR77;ATP5F1	NM_024102;NM_001688	cg25847024R	Body;TSS1500	cg25847024
KIAA1522	NM_020888	cg25850629F	Body	cg25850629
OR8U8;OR5M10	NM_001013356;NM_001006932	cg25851488R	Body;TSS1500	cg25851488
ESRRG	NM_001134285	cg25851789R	5'UTR	cg25851789
PABPC1L;PABPC1L	NM_001124756;NM_001124756	cg25853777F	5'UTR;1stExon	cg25853777
STAT3;STAT3;STAT3	NM_139276;NM_003150;NM_001006932	cg25857307R	5'UTR;5'UTR;5'UTR	cg25857307
MEOX2;MEOX2	NM_005924;NM_005924	cg25859468F	1stExon;5'UTR	cg25859468
HLA-DRB6	NR_001298	cg25860143F	TSS1500	cg25860143
		cg25866738R		cg25866738
LAMP3	NM_014398	cg25867545R	TSS200	cg25867545
SELM	NM_080430	cg25867694F	TSS200	cg25867694
RAP1GAP2;RAP1GAP2	NM_015085;NM_001100398	cg25871594R	Body;Body	cg25871594

GTPBP10;GTPBP10	NM_001042717;NM_033107	cg25876024F cg25876586R	TSS1500;TSS1500	cg25876024 cg25876586
CAP1;CAP1	NM_006367;NM_001105530	cg25879365F	5'UTR;5'UTR	cg25879365
ETNK1;ETNK1;ETNK1;ETNK1	NM_001039481;NM_001039	cg25881344F	5'UTR;1stExon;5'UTR;1	cg25881344
MGMT	NM_002412	cg25881985R	Body	cg25881985
RHOBTB2	NM_001160036	cg25882887F	TSS1500	cg25882887
MIR1471	NR_031717	cg25883149F	TSS200	cg25883149
TRPM8	NM_024080	cg25883348F	Body	cg25883348
TP73	NM_005427	cg25885108R	TSS1500	cg25885108
MBP;MBP	NM_001025100;NM_001025	cg25887236F cg25895971R cg25905578R	TSS200;TSS200	cg25887236 cg25895971 cg25905578
TNPO3	NM_012470	cg25907594F	Body	cg25907594
AKAP10	NM_007202	cg25907965R	TSS1500	cg25907965
JMJD6;C17orf95;JMJD6;JMJD6	NM_001081461;NM_001080	cg25908504F cg25911171R	1stExon;TSS200;5'UTR;	cg25908504 cg25911171
SPARC	NM_003118	cg25913233R	TSS200	cg25913233
LOC646999	NR_024390	cg25916044R	TSS1500	cg25916044
FCHO2;FCHO2	NM_138782;NM_001146032	cg25916527F	Body;Body	cg25916527
OGDH;OGDH;OGDH	NM_001165036;NM_001003	cg25916771R	Body;3'UTR;Body	cg25916771
GLI2	NM_005270	cg25919979F cg25920214F cg25921736F	Body	cg25919979 cg25920214 cg25921736
LCTL	NM_207338	cg25923629F	TSS200	cg25923629
C6orf10	NM_006781	cg25924085F	Body	cg25924085
IGF1;IGF1;IGF1;IGF1	NM_001111285;NM_000618	cg25924694F cg25925578R cg25927822F	Body;Body;TSS200;Bod	cg25924694 cg25925578 cg25927822
OBSL1;INHA	NM_015311;NM_002191	cg25928444F	TSS1500;Body	cg25928444
OSBPL1A;OSBPL1A	NM_080597;NM_018030	cg25928477F cg25933594F	Body;TSS200	cg25928477 cg25933594
C12orf42;C12orf42	NM_198521;NM_001099336	cg25935014F cg25939015R	5'UTR;5'UTR	cg25935014 cg25939015
TERT;TERT	NM_198255;NM_198253	cg25939350F	Body;Body	cg25939350
BRUNOL6	NM_052840	cg25939371R	Body	cg25939371
MARCH6	NM_005885	cg25940501F	Body	cg25940501
TAPT1;FLJ39653;FLJ3965	NM_153365;NR_027697;NR	cg25940730F	TSS1500;Body;Body	cg25940730
SEC23B;SEC23B;SEC23B	NM_006363;NM_032986;NM	cg25941152F	5'UTR;5'UTR;5'UTR	cg25941152
FAM53A	NM_001013622	cg25941209R	Body	cg25941209
RTP4	NM_022147	cg25941274R	TSS1500	cg25941274
TPI1;TPI1;TPI1	NM_000365;NR_027483;NM	cg25941512R	TSS200;TSS1500;1stExo	cg25941512
PRDX5;PRDX5;PRDX5;TR	NM_012094;NM_181652;NM	cg25944898R	TSS200;TSS200;TSS200	cg25944898
FAM131B;FAM131B	NM_014690;NM_001031690	cg25946952R	TSS200;Body	cg25946952
MCF2L;MCF2L	NM_001112732;NM_024979	cg25947845R	Body;Body	cg25947845
HOPX;HOPX;HOPX;HOPX	NM_139212;NM_032495;NM	cg25948037F cg25949447R cg25952037F	5'UTR;Body;Body;TSS1	cg25948037 cg25949447 cg25952037
C14orf43	NM_001043318	cg25952104R	5'UTR	cg25952104
SNORD115-15;SNORD11	NR_003307;NR_003313;NR	cg25954220R	Body;Body;TSS1500	cg25954220
CRADD	NM_003805	cg25955126R	Body	cg25955126
TAX1BP3	NM_014604	cg25955817F	TSS1500	cg25955817
DOCK3	NM_004947	cg25959131R	Body	cg25959131
ACAP2	NM_012287	cg25959527F cg25960378F	TSS200	cg25959527 cg25960378



SLC1A2	NM_004171	cg25961618R cg25964517F cg25964940R	Body	cg25961618 cg25964517 cg25964940
AFG3L2	NM_006796	cg25964954R	TSS200	cg25964954
RNF215	NM_001017981	cg25964984R	TSS200	cg25964984
FAM83F	NM_138435	cg25966022F cg25966751F	Body	cg25966022 cg25966751
SLC12A7	NM_006598	cg25970471R	Body	cg25970471
ADCY5	NM_183357	cg25976932F cg25982505F	Body	cg25976932 cg25982505
FAM53C;FAM53C GNAS;GNAS;GNAS;GNA	NM_016605;N I_001135647 NM_001077490;NM_000516	cg25983288F cg25983380R cg25984400R cg25984458R	Body;Body 3'UTR;TSS1500;TSS1500	cg25983288 cg25983380 cg25984400 cg25984458
NCR2	NM_004828	cg25990402F cg25992645F cg25992657R cg25998181F	TSS1500	cg25990402 cg25992645 cg25992657 cg25998181
ADORA2A DHPS;DHPS;DHPS	NM_000675 NM_013407;NM_013406;NM_013405	cg26001125F cg26001590F cg26002568R	TSS1500 TSS1500;TSS1500;TSS1500	cg26001125 cg26001590 cg26002568
NPHP4	NM_015102	cg26003933F cg26004221R	Body	cg26003933 cg26004221
SBF2	NM_030962	cg26007766F	Body	cg26007766
ATP1B1;ATP1B1 MDGA2;MDGA2	NM_001001787;NM_001677 NM_001113498;NM_182830	cg26009832F cg26010412R cg26011210R	Body;Body Body;Body	cg26009832 cg26010412 cg26011210
ZNF256	NM_005773	cg26013057F cg26014047R cg26014281F cg26015681R cg26016074F	Body	cg26013057 cg26014047 cg26014281 cg26015681 cg26016074
SRD5A1P1	NR_028597	cg26018312F cg26018322R cg26020008R	Body	cg26018312 cg26018322 cg26020008
FBLN2;FBLN2;FBLN2 LOC643763;NKAIN3	NM_001165035;NM_001998 NR_027378;NM_173688	cg26021633R cg26022010F cg26027442F	Body;Body;Body Body;Body	cg26021633 cg26022010 cg26027442
HIST1H2AG;HIST1H2BJ FBLIM1	NM_021064;NM_021058 NM_017556	cg26027780F cg26036626R cg26037026F cg26043955R	TSS1500;1stExon 5'UTR	cg26027780 cg26036626 cg26037026 cg26043955
ITIH5;ITIH5 BMP8B	NM_030569;NM_001001851 NM_001720	cg26051552R cg26051619F	Body;Body TSS1500	cg26051552 cg26051619
LUZP1;LUZP1 KALRN;KALRN	NM_033631;NM_001142546 NM_001024660;NM_007064	cg26051750F cg26052377F cg26053876R	TSS1500;TSS1500 Body;Body	cg26051750 cg26052377 cg26053876
SLC29A2	NM_001532	cg26056527F	Body	cg26056527
B3GNTL1	NM_001009905	cg26056959R	Body	cg26056959
VPS37D	NM_001077621	cg26057283R cg26057840F cg26058731F	Body	cg26057283 cg26057840 cg26058731
SPEN	NM_015001	cg26058971F	Body	cg26058971
MAD1L1;MAD1L1;MAD1	NM_003550;NM_001013837	cg26066560F	Body;Body;Body	cg26066560

SPTBN2	NM_006946	cg26070604F	3'UTR	cg26070604
PTPN21	NM_007039	cg26071963R	Body	cg26071963
C17orf51;C17orf51	NM_001113434;NM_001113	cg26072705R	1stExon;5'UTR	cg26072705
MIR10A	NR_029608	cg26072749F	Body	cg26072749
DST;DST;DST;DST	NM_001144770;NM_183380	cg26076236R cg26077454F	Body;Body;Body;Body	cg26076236 cg26077454
TSPAN9;TSPAN9	NM_001168320;NM_006675	cg26079571F cg26080826F	TSS200;TSS200	cg26079571 cg26080826
MYH6	NM_002471	cg26083141R cg26085385R	TSS1500	cg26083141 cg26085385
SYNE2;SYNE2;SYNE2;SYNM_182914;NM_182914;NM_182914	NM_006103	cg26085966R cg26086948F cg26087625F	5'UTR;1stExon;1stExon;TSS1500	cg26085966 cg26086948 cg26087625
WFDC2	NR_027044	cg26089220F cg26089827F	Body	cg26089220 cg26089827
LOC440040	NM_016582;NR_027391	cg26090107R	1stExon;Body	cg26090107
SLC15A3;SLC15A3	NM_001845	cg26090406F	Body	cg26090406
COL4A1	NM_025248	cg26094554R	Body	cg26094554
SRCIN1	NM_004877	cg26102475F	TSS200	cg26102475
GMFG	NM_194286	cg26103179R	Body	cg26103179
SRRM4	NM_015196;NM_001131007	cg26103306R cg26103587F	Body;Body	cg26103306 cg26103587
KIAA0922;KIAA0922	NM_005870	cg26103797R	Body	cg26103797
SAP18	NM_003777	cg26104541F cg26105731F	Body	cg26104541 cg26105731
DNAH11	NM_032251	cg26107100R	Body	cg26107100
CCDC88B	NM_017880	cg26109510F	Body	cg26109510
C2orf42	NM_003393	cg26109803R	TSS200	cg26109803
WNT8B	NM_005766	cg26111913R	Body	cg26111913
FARP1	NM_017600	cg26112390R	3'UTR	cg26112390
GOLGA2L1	NM_001161376;NM_145029	cg26112706R cg26113925R	Body;Body;Body	cg26112706 cg26113925
C6orf136;C6orf136;C6orf136	NM_003149	cg26116112F	Body	cg26116112
STAC	NM_182763;NM_021960	cg26118326F	3'UTR;3'UTR	cg26118326
MCL1;MCL1	NM_138800	cg26118675R	TSS1500	cg26118675
TRIM43	NM_206909;NM_015310	cg26118821R	Body;Body	cg26118821
PSD3;PSD3	NM_017918	cg26120194R	Body	cg26120194
CCDC109B	NM_001134468	cg26120485F	TSS1500	cg26120485
C7orf53	NM_001030001;NM_001032	cg26121561R cg26126181R	1stExon;1stExon	cg26121561 cg26126181
RPS29;RPS29	NM_004745	cg26128378R	Body	cg26128378
DLGAP2	NM_003732;NM_020690	cg26131493F cg26131932F	TSS1500;Body	cg26131493 cg26131932
EIF4EBP3;ANKHD1-EIF4EBP3	NM_018418;NM_001040428	cg26136325R cg26136794R	Body;Body	cg26136325 cg26136794
SPATA7;SPATA7	NM_004093	cg26138978R	Body	cg26138978
EFNB2	NM_020889;NM_001033561	cg26142380R cg26144458R cg26148815F	Body;Body	cg26142380 cg26144458 cg26148815
PHF12;PHF12	NM_022736;NM_001167903	cg26149032F cg26149765F	TSS200;TSS200	cg26149032 cg26149765
MFSD1;MFSD1	NM_001011663;NM_032154	cg26155979R cg26158133F	5'UTR;5'UTR;1stExon;1stExon	cg26155979 cg26158133
PCGF6;PCGF6;PCGF6;PCGF6	NM_001134709;NM_003472	cg26160196R	TSS200;TSS200	cg26160196
DEK;DEK				

CDC14C	NR_003595	cg26162020F cg26163101F cg26163284F	TSS200	cg26162020 cg26163101 cg26163284
PARK2;PARK2;PARK2 STRAP	NM_004562;NM_013987;NM_007178	cg26166717F cg26167861F cg26174329F	Body;Body;Body 1stExon	cg26166717 cg26167861 cg26174329
TMCC1;TMCC1	NM_001017395;NM_001128	cg26175815F	Body;Body	cg26175815
CABLES2	NM_031215	cg26176242F	Body	cg26176242
ITGB3	NM_000212	cg26176717R	Body	cg26176717
RAB18	NM_021252	cg26177629F	Body	cg26177629
DTNB;DTNB;DTNB;DTN PTPRN2;PTPRN2;PTPRN	NM_033147;NM_033148;NM_002847;NM_130842;NM_180501F	cg26179134R cg26181334F cg26182313R	TSS1500;TSS1500;TSS1500 Body;Body;Body	cg26179134 cg26181334 cg26182313
SLC16A12	NM_213606	cg26185379F	3'UTR	cg26185379
TNFRSF25;PLEKHG5;TNFRSF1B	NM_148966;NM_001042663	cg26186134F	TSS1500;3'UTR;TSS1500	cg26186134
DAB2	NM_001343	cg26186331F	5'UTR	cg26186331
TNFRSF1B	NM_001066	cg26189983F cg26190386R	Body	cg26189983 cg26190386
HCG18;HCG18	NR_024052;NR_024053	cg26193268R	Body;Body	cg26193268
GRID2IP	NM_001145118	cg26193694R	Body	cg26193694
FOXG1	NM_005249	cg26194477R	TSS1500	cg26194477
RBM9;RBM9;RBM9;RBM9	NM_001082578;NM_001082	cg26196531R	Body;Body;TSS200;TSS200	cg26196531
ADAMTS7	NM_014272	cg26201283F cg26207837R	Body	cg26201283 cg26207837
ITGA11	NM_001004439	cg26217827R cg26218264R cg26223968F cg26224664R	3'UTR	cg26217827 cg26218264 cg26223968 cg26224664
PNPLA8	NM_015723	cg26226139R cg26227119F	5'UTR	cg26226139 cg26227119
CNN3	NM_001839	cg26227186F	TSS1500	cg26227186
PRDM16;PRDM16	NM_022114;NM_199454	cg26228024R cg26231397R cg26233230F	Body;Body	cg26228024 cg26231397 cg26233230
CCL28	NM_148672	cg26237003R	TSS1500	cg26237003
RPS9	NM_001013	cg26240842F cg26241877R	TSS1500	cg26240842 cg26241877
LOC285780;LY86	NR_026970;NM_004271	cg26242755F	TSS1500;Body	cg26242755
FRK	NM_002031	cg26243679F	Body	cg26243679
NFATC1;NFATC1;NFATC1	NM_006162;NM_172388;NM_004986;NM_182926;NM_004986	cg26244832R cg26246078R	Body;5'UTR;Body;Body	cg26244832 cg26246078
KTN1;KTN1;KTN1;KTN1	NM_004986;NM_182926;NM_004986	cg26246078R	3'UTR;3'UTR;3'UTR;3'UTR	cg26246078
LOC100133612	NR_024455	cg26248091F	Body	cg26248091
LIMCH1;LIMCH1;LIMCH1	NM_001112717;NM_014988	cg26248284F cg26250154R	1stExon;5'UTR;1stExon;	cg26248284 cg26250154
PRKCZ;PRKCZ	NM_002744;NM_001033581	cg26252027F cg26256901R	Body;5'UTR	cg26252027 cg26256901
PIGL	NM_004278	cg26258274R cg26259001R cg26262746R	3'UTR	cg26258274 cg26259001 cg26262746
LOC154449	NR_002787	cg26263239R	Body	cg26263239
SKI	NM_003036	cg26264656F	Body	cg26264656
DCP1B	NM_152640	cg26268125F	Body	cg26268125
BHLHE40	NM_003670	cg26269881R	Body	cg26269881

TNN	NM_022093	cg26270116F cg26271001R	Body	cg26270116 cg26271001
FBXO33;FBXO33 WDR81;WDR81;WDR81; ERI3;ERI3	NM_203301;NM_203301 NM_001163673;NM_001163 NM_024066;NM_024066	cg26271086F cg26273005R cg26275242F cg26278151R cg26281303F	1stExon;5'UTR Body;1stExon;5'UTR;5' 5'UTR;1stExon	cg26271086 cg26273005 cg26275242 cg26278151 cg26281303
C3 MUM1;MUM1 VPS52;RPS18	NM_000064 NR_024247;NM_032853 NM_022553;NM_022551	cg26281971R cg26282762F cg26283141F cg26283220F cg26284735F	Body Body;Body TSS1500;Body	cg26281971 cg26282762 cg26283141 cg26283220 cg26284735
PRKAG2;PRKAG2	NM_016203;NM_001040 633	cg26284782F cg26286365F	Body;TSS1500	cg26284782 cg26286365
C20orf173;C20orf173 FRMPD4 RAB2A;RAB2A RBM20	NR_026933;NM_001145350 NM_014728 NM_002865;NM_002865 NM_001134363	cg26287609R cg26288719R cg26291818F cg26292895F cg26296119F cg26296470R cg26301215R	TSS1500;TSS1500 Body 5'UTR;1stExon Body	cg26287609 cg26288719 cg26291818 cg26292895 cg26296119 cg26296470 cg26301215
GP5 NSUN3;DHFRL1	NM_004488 NM_022072;NM_176815	cg26301565F cg26301639F cg26304297R cg26304681R cg26305608F	3'UTR TSS200;TSS200	cg26301565 cg26301639 cg26304297 cg26304681 cg26305608
S100A3	NM_002960	cg26306869R cg26307797R	TSS1500	cg26306869 cg26307797
RPH3AL EDAR LTB;LTB TRIM26	NM_006987 NM_022336 NM_002341;NM_009588 NM_003449	cg26308512F cg26309498F cg26311932F cg26311995F cg26312897F	Body TSS1500 Body;Body Body	cg26308512 cg26309498 cg26311932 cg26311995 cg26312897
GPX5;GPX5	NM_003996;NM_001509	cg26313247R cg26315261R cg26317888R cg26322995F cg26324057F	TSS1500;TSS1500	cg26313247 cg26315261 cg26317888 cg26322995 cg26324057
KCTD6;KCTD6	NM_153331;NM_001128 214	cg26331326R cg26336773R	TSS1500;5'UTR	cg26331326 cg26336773
ARHGAP10	NM_024605	cg26338428R cg26338473R	Body	cg26338428 cg26338473
C20orf43 RPA2;RPA2 MATK	NM_016407 NM_002946;NM_002946 NM_002378	cg26339180R cg26339992F cg26340968R cg26343512F	TSS1500 1stExon;5'UTR 5'UTR	cg26339180 cg26339992 cg26340968 cg26343512
PEMT;PEMT;PEMT BHLHE40 SVOP	NM_148173;NM_007169;NM NM_003670 NM_018711	cg26343721F cg26344982R cg26345142F cg26345218R	3'UTR;3'UTR;3'UTR Body 3'UTR	cg26343721 cg26344982 cg26345142 cg26345218
PRR16	NM_016644	cg26346574F cg26346797R cg26348995R	Body	cg26346574 cg26346797 cg26348995
SYTL2	NM_032943	cg26349554F	TSS200	cg26349554

NCF1C	NR_003187	cg26351468F	Body	cg26351468
ABCA9	NM_080283	cg26352073R	Body	cg26352073
RPH3AL	NM_006987	cg26352439F	Body	cg26352439
AACS	NM_023928	cg26352502R	Body	cg26352502
		cg26353844R		cg26353844
		cg26360088R		cg26360088
		cg26361327R		cg26361327
		cg26361792R		cg26361792
RHOBTB2;RHOBTB2;RHO	NM_001160036;NM_015178	cg26362079F	Body;Body;Body	cg26362079
		cg26363955F		cg26363955
EPHA6	NM_001080448	cg26364205R	1stExon	cg26364205
HDAC4	NM_006037	cg26367235F	Body	cg26367235
NINJ2	NM_016533	cg26371957F	Body	cg26371957
		cg26381452F		cg26381452
C2orf64;UNC50	NM_001008215;NM_014044	cg26381918R	TSS1500;5'UTR	cg26381918
PXDN	NM_012293	cg26381919R	Body	cg26381919
LOC728411;LOC728411;L	NR_027026;NR_027028;NR_	cg26383282R	Body;Body;Body	cg26383282
COL4A2	NM_001846	cg26384036F	Body	cg26384036
DPF3	NM_012074	cg26384993R	Body	cg26384993
ZNF718;ZNF595	NM_001039127;NM_182524	cg26385085R	TSS200;TSS200	cg26385085
NKAIN3	NM_173688	cg26385897F	Body	cg26385897
GIMAP8	NM_175571	cg26387796F	TSS200	cg26387796
PTS	NM_000317	cg26389465R	TSS200	cg26389465
		cg26390541F		cg26390541
		cg26391077R		cg26391077
		cg26391219F		cg26391219
TSNARE1	NM_145003	cg26394850R	Body	cg26394850
MYLK4	NM_001012418	cg26395813R	Body	cg26395813
ZNF496	NM_032752	cg26396086F	5'UTR	cg26396086
NXPH4	NM_007224	cg26396455R	Body	cg26396455
LYRM5;CASC1;CASC1;L	NM_001001660;NM_00101082	cg26397265R	1stExon;TSS200;TSS200	cg26397265
OSBPL1A;OSBPL1A	NM_080597;NM_018030	cg26398656F	Body;TSS200	cg26398656
C14orf177	NM_182560	cg26398691R	TSS1500	cg26398691
		cg26404172F		cg26404172
PFKFB1	NM_002625	cg26406249F	TSS1500	cg26406249
DIP2C	NM_014974	cg26406407R	Body	cg26406407
		cg26409566R		cg26409566
C1orf86	NM_001146310	cg26411452R	5'UTR	cg26411452
SEPT9;SEPT9;SEPT9;SEP	NM_001113494;NM_001113	cg26413730F	5'UTR;5'UTR;Body;Bod	cg26413730
MEGF11	NM_032445	cg26416466F	TSS1500	cg26416466
CUX2	NM_015267	cg26416887R	Body	cg26416887
		cg26417417F		cg26417417
SETD1B	NM_015048	cg26419957F	Body	cg26419957
L3MBTL4	NM_173464	cg26420606R	Body	cg26420606
		cg26422129F		cg26422129
FOXQ1	NM_033260	cg26422161R	1stExon	cg26422161
STAU2;STAU2;STAU2;STN	M_001164384;NM_001164	cg26423693F	5'UTR;5'UTR;5'UTR;5'U	cg26423693
		cg26425045R		cg26425045
MBLAC1	NM_203397	cg26425691F	TSS200	cg26425691
TCTN2;TCTN2	NM_024809;NM_001143850	cg26427417F	3'UTR;3'UTR	cg26427417
LOR	NM_000427	cg26429169F	TSS1500	cg26429169
FOXN3;FOXN3	NM_005197;NM_001085471	cg26430059R	Body;Body	cg26430059
C22orf28	NM_014306	cg26431343R	TSS1500	cg26431343
ZNF354A	NM_005649	cg26433777R	5'UTR	cg26433777

TRIM59	NM_173084	cg26433838R	TSS200	cg26433838
SPOCK2;SPOCK2	NM_014767;NM_001134434	cg26435178F	5'UTR;5'UTR	cg26435178
SAMD4A;SAMD4A	NM_001161576;NM_015589	cg26437697R	Body;Body	cg26437697
		cg26441627F		cg26441627
SLC36A4	NM_152313	cg26445561R	Body	cg26445561
KIAA1191;KIAA1191;KIANM_020444;NM_001079684		cg26446717F	TSS200;TSS200;TSS200	cg26446717
PHYH;PHYH	NM_006214;NM_001037537	cg26449747R	3'UTR;3'UTR	cg26449747
RNF222	NM_001146684	cg26451188R	3'UTR	cg26451188
PRR5L;PRR5L;PRR5L;PRR5L;PRR5L;PRR5L	NM_024841;NM_001160167	cg26451547F	5'UTR;5'UTR;1stExon;5	cg26451547
		cg26458775F		cg26458775
PRKAR1B;PRKAR1B;PRKAR1B;PRKAR1B;PRKAR1B;PRKAR1B	NM_001164759;NM_001164	cg26461009R	Body;Body;Body;Body;Body;Body	cg26461009
		cg26461267F		cg26461267
ACSS3	NM_024560	cg26461449R	Body	cg26461449
NPEPPS	NM_006310	cg26462239F	1stExon	cg26462239
		cg26462906F		cg26462906
C15orf51	NR_003260	cg26464207F	Body	cg26464207
RAB20	NM_017817	cg26468118R	3'UTR	cg26468118
SH3D20	NM_174919	cg26471390R	TSS1500	cg26471390
AIRE;AIRE	NM_000658;NM_000383	cg26472802R	Body;Body	cg26472802
FLT3	NM_004119	cg26472910F	Body	cg26472910
		cg26474192R		cg26474192
		cg26480141R		cg26480141
		cg26487629R		cg26487629
CDC20B;MIR449C;CDC20B;MIR449C;CDC20B;MIR449C	NM_152623;NR_031572;NM_001079684	cg26487966F	TSS200;TSS1500;TSS200	cg26487966
SPG7;SPG7	NM_003119;NM_199367	cg26488985F	Body;Body	cg26488985
NLRP2	NM_017852	cg26489750R	3'UTR	cg26489750
MUC5B	NM_002458	cg26490626R	Body	cg26490626
ARHGAP10	NM_024605	cg26492631R	Body	cg26492631
BMS1P5;BMS1P1	NR_003611;NR_026566	cg26494390F	Body;Body	cg26494390
DKFZp566F0947	NR_026894	cg26495716F	TSS200	cg26495716
PIP4K2A	NM_005028	cg26496604R	Body	cg26496604
CDKN1A;CDKN1A	NM_000389;NM_078467	cg26500144R	TSS200;TSS200	cg26500144
		cg26501230R		cg26501230
		cg26502018R		cg26502018
		cg26506680R		cg26506680
FBXW9	NM_032301	cg26511337F	TSS1500	cg26511337
		cg26511840F		cg26511840
XPO6;XPO6	NM_015171;NM_015171	cg26512406F	5'UTR;1stExon	cg26512406
HCFC1	NM_005334	cg26514584R	Body	cg26514584
ZNF100	NM_173531	cg26515694R	Body	cg26515694
CYP1A1	NM_000499	cg26516004F	TSS1500	cg26516004
ESYT2	NM_020728	cg26517878R	Body	cg26517878
ALDOA;ALDOA;ALDOA;ALDOA;ALDOA;ALDOA	NM_000034;NM_184043;NM_001079684	cg26519342R	Body;Body;Body;Body	cg26519342
RND2	NM_005440	cg26524541F	TSS200	cg26524541
		cg26526443R		cg26526443
		cg26528107F		cg26528107
PCDH7	NM_032457	cg26528531F	Body	cg26528531
MFSD4	NM_181644	cg26533350R	TSS1500	cg26533350
TSSC1	NM_003310	cg26534993R	Body	cg26534993
		cg26538140R		cg26538140
		cg26542912F		cg26542912
SNX29	NM_001080530	cg26544188F	Body	cg26544188
C11orf75	NM_020179	cg26544685F	TSS200	cg26544685
GLI2	NM_005270	cg26546687F	Body	cg26546687

MYEOV	NM_138768	cg26548122F	TSS1500	cg26548122
SLC25A17	NM_006358	cg26548134R	Body	cg26548134
C1orf77;S100A13	NM_015607;NM_001024210	cg26548293F	TSS1500;5'UTR	cg26548293
		cg26549114R		cg26549114
MAP7	NM_003980	cg26549185F	Body	cg26549185
CALML5	NM_017422	cg26552733F	TSS1500	cg26552733
LRRC4C	NM_020929	cg26553513R	5'UTR	cg26553513
		cg26556492F		cg26556492
		cg26560020R		cg26560020
LDHB	NM_002300	cg26560732R	Body	cg26560732
STK10;STK10	NM_005990;NM_005990	cg26561207F	1stExon;5'UTR	cg26561207
USH1C;USH1C	NM_153676;NM_005709	cg26561358F	Body;Body	cg26561358
		cg26563242R		cg26563242
LOXL2	NM_002318	cg26563553F	TSS200	cg26563553
		cg26563889F		cg26563889
		cg26565660F		cg26565660
GLRA1;GLRA1	NM_000171;NM_001146040	cg26567012R	3'UTR;3'UTR	cg26567012
NOL10	NM_024894	cg26569634F	Body	cg26569634
		cg26572839R		cg26572839
SULT2A1	NM_003167	cg26574395R	TSS1500	cg26574395
TUBB3	NM_006086	cg26577993F	Body	cg26577993
PSMA4;PSMA4;PSMA4	NM_001102667;NM_002789	cg26578274F	TSS1500;TSS1500;TSS1500	cg26578274
KIAA0513	NM_014732	cg26578983R	5'UTR	cg26578983
SOLH	NM_005632	cg26582098F	5'UTR	cg26582098
OR52J3	NM_001001916	cg26582457R	TSS1500	cg26582457
		cg26582723F		cg26582723
		cg26583560F		cg26583560
GLYR1	NM_032569	cg26586669R	3'UTR	cg26586669
FHDC1	NM_033393	cg26586917F	3'UTR	cg26586917
ITPKA	NM_002220	cg26589785F	Body	cg26589785
LOC390595	NM_001163692	cg26590064F	Body	cg26590064
CBFA2T3;CBFA2T3	NM_175931;NM_005187	cg26591221R	3'UTR;3'UTR	cg26591221
PANX1	NM_015368	cg26592560F	Body	cg26592560
		cg26595006R		cg26595006
LRRC4;SND1	NM_022143;NM_014390	cg26595520R	TSS200;Body	cg26595520
		cg26605760R		cg26605760
NOSTRIN	NM_001171631	cg26607002F	TSS200	cg26607002
		cg26607758R		cg26607758
LASS4	NM_024552	cg26609894R	5'UTR	cg26609894
RRM1	NM_001033	cg26612563R	TSS200	cg26612563
ART4	NM_021071	cg26614815F	TSS1500	cg26614815
		cg26621491R		cg26621491
		cg26626449R		cg26626449
		cg26627405F		cg26627405
		cg26627760F		cg26627760
IFT140	NM_014714	cg26628100R	Body	cg26628100
PPP2CB;PPP2CB;PPP2CB	NM_004156;NM_004156;NM_004156	cg26631144F	5'UTR;1stExon;5'UTR;1stExon	cg26631144
		cg26631979F		cg26631979
GALNS	NM_000512	cg26634121F	Body	cg26634121
PLCD3;ACBD4	NM_133373;NM_001135704	cg26634885R	1stExon;TSS1500	cg26634885
TP53AIP1	NM_022112	cg26636379F	5'UTR	cg26636379
IGF2BP3	NM_006547	cg26636869F	1stExon	cg26636869
HBA2	NM_000517	cg26637826R	TSS1500	cg26637826
		cg26640601F		cg26640601

IL12RB1	NM_005535	cg26642774R	3'UTR	cg26642774
UCN3;UCN3	NM_053049;NM_053049	cg26644395F cg26646896F	1stExon;5'UTR	cg26644395 cg26646896
LPCAT3	NM_005768	cg26651188R cg26651885R	Body	cg26651188 cg26651885
PHYH	NM_006214	cg26654766R	TSS1500	cg26654766
CPNE7;CPNE7	NM_014427;NM_153636	cg26655764R cg26656202F	Body;Body	cg26655764 cg26656202
ELOVL7;ELOVL7	NM_024930;NM_001104558	cg26657045F	5'UTR;5'UTR	cg26657045
CRAMP1L	NM_020825	cg26660457R	TSS200	cg26660457
TBX2	NM_005994	cg26660800F cg26662583F	Body	cg26660800 cg26662583
LY6H;LY6H;LY6H	NM_001130478;NM_001135	cg26663686R	5'UTR;TSS200;TSS1500	cg26663686
MCCC2	NM_022132	cg26663742R cg26665516F	Body	cg26663742 cg26665516
FAM66A	NR_026789	cg26670620F	Body	cg26670620
C14orf174;TMED8	NM_001010860;NM_213601	cg26672739R	TSS200;TSS200	cg26672739
ZNF559	NM_032497	cg26674132R	TSS1500	cg26674132
C8orf46	NM_152765	cg26674558R	TSS1500	cg26674558
TUBB8;TUBB8;TUBB8	NM_177987;NM_001164154	cg26675077R cg26675620F	TSS1500;1stExon;5'UTR	cg26675077 cg26675620
SUPT3H;SUPT3H	NM_003599;NM_181356	cg26675905F cg26676534R	Body;Body	cg26675905 cg26676534
TBKBP1	NM_014726	cg26677103R	Body	cg26677103
STK25	NM_006374	cg26677478R	Body	cg26677478
SNX10	NM_013322	cg26680077F	5'UTR	cg26680077
MYLK3	NM_182493	cg26680127R cg26681183R cg26681628F	TSS1500	cg26680127 cg26681183 cg26681628
UGGT2	NM_020121	cg26683794R	Body	cg26683794
ETV5	NM_004454	cg26684511R	TSS1500	cg26684511
RGS12;RGS12;RGS12	NM_198229;NM_198227;NM_198227	cg26686647F	Body;Body;Body	cg26686647
ACADSB	NM_001609	cg26687912R	3'UTR	cg26687912
ICA1L	NM_138468	cg26688472R	3'UTR	cg26688472
SLC17A1	NM_005074	cg26691898R	TSS1500	cg26691898
PIGM;PIGM	NM_145167;NM_145167	cg26692048F	1stExon;5'UTR	cg26692048
SV2C	NM_014979	cg26693927R	Body	cg26693927
ADAMTS2;ADAMTS2	NM_021599;NM_014244	cg26694831F	Body;Body	cg26694831
ZNF608	NM_020747	cg26696655F	Body	cg26696655
LUC7L;LUC7L	NM_018032;NM_201412	cg26697334R	TSS1500;TSS1500	cg26697334
WWOX	NM_016373	cg26700469R cg26701810F	Body	cg26700469 cg26701810
FLJ41350	NR_029380	cg26702958F cg26703956R	Body	cg26702958 cg26703956
MEST;MEST;MEST;MEST	NM_002402;NM_177524;NM_177524;NM_177524	cg26708559F	TSS1500;5'UTR;5'UTR;5'UTR	cg26708559
SLC9A3	NM_004174	cg26710738R	Body	cg26710738
WNT5A	NM_003392	cg26712080F	Body	cg26712080
CELSR3	NM_001407	cg26712159F cg26712943R cg26714086F	1stExon	cg26712159 cg26712943 cg26714086
PVRL2;PVRL2	NM_002856;NM_001042724	cg26717215F	TSS1500;TSS1500	cg26717215
TLE2;TLE2;TLE2	NM_003260;NM_001144762	cg26717563R cg26719056F cg26721868F	Body;Body;Body	cg26717563 cg26719056 cg26721868



		cg26722062F		cg26722062
SOX12;SOX12	NM_006943;NM_006943	cg26726589R	5'UTR;1stExon	cg26726589
IL21R;IL21R	NM_181079;NM_181078	cg26727816F	TSS1500;TSS200	cg26727816
ZFH3;ZFH3	NM_001164766;NM_006885	cg26731575F	Body;Body	cg26731575
SF4	NM_172231	cg26731834F	Body	cg26731834
C17orf90;CCDC137	NM_001039842;NM_199287	cg26731897R	TSS1500;1stExon	cg26731897
NUDT22;TRPT1;TRPT1;T	NM_001128612;NM_001160	cg26733140R	TSS200;5'UTR;1stExon;	cg26733140
MAG;MAG	NM_002361;NM_080600	cg26735071R	Body;Body	cg26735071
IL27RA	NM_004843	cg26735637R	Body	cg26735637
TNF	NM_000594	cg26736341R	3'UTR	cg26736341
THSD4	NM_024817	cg26738530R	Body	cg26738530
		cg26739149F		cg26739149
		cg26739230R		cg26739230
		cg26743317F		cg26743317
		cg26743860F		cg26743860
IKZF1	NM_006060	cg26746878F	3'UTR	cg26746878
INE2;ZRSR2	NR_002725;NM_005089	cg26747413F	TSS1500;TSS1500	cg26747413
TNS3	NM_022748	cg26748278F	5'UTR	cg26748278
		cg26751868R		cg26751868
HLA-F;HLA-F;HLA-F	NM_001098478;NM_001098	cg26751972F	Body;Body;Body	cg26751972
		cg26753208R		cg26753208
ROBO4	NM_019055	cg26754664R	3'UTR	cg26754664
		cg26756193R		cg26756193
ATP6V0D1;ATP6V0D1	NM_004691;NM_004691	cg26759515R	1stExon;5'UTR	cg26759515
CES8	NM_173815	cg26762050F	TSS200	cg26762050
CASKIN1	NM_020764	cg26766798F	1stExon	cg26766798
		cg26766827F		cg26766827
LRFN1	NM_020862	cg26768966R	TSS1500	cg26768966
TRAPPC9;TRAPPC9	NM_001160372;NM_031466	cg26769700F	Body;Body	cg26769700
		cg26770043R		cg26770043
RNF139	NM_007218	cg26770385R	TSS200	cg26770385
TMEM181	NM_020823	cg26774971F	Body	cg26774971
LPPR3	NM_024888	cg26775538R	Body	cg26775538
		cg26777149R		cg26777149
		cg26785220F		cg26785220
FLJ37543	NM_173667	cg26789319R	Body	cg26789319
RSRC2;RSRC2;RSRC2	NM_198261;NM_198262;NM_198263	cg26794418R	Body;5'UTR;Body	cg26794418
		cg26797811R		cg26797811
DPRX;DPRX	NM_001012728;NM_001012	cg26797895F	1stExon;5'UTR	cg26797895
		cg26800771R		cg26800771
SEMA3D	NM_152754	cg26801812F	Body	cg26801812
		cg26802119F		cg26802119
RUFY1	NM_025158	cg26802951R	1stExon	cg26802951
		cg26806713R		cg26806713
		cg26807367F		cg26807367
MICB	NM_005931	cg26810281R	TSS200	cg26810281
BCL9L;BCL9L	NM_182557;NM_182557	cg26811705R	1stExon;5'UTR	cg26811705
LHX9;LHX9	NM_020204;NM_001014434	cg26816907R	Body;Body	cg26816907
ARHGEF4;ARHGEF4	NM_032995;NM_015320	cg26820055F	Body;Body	cg26820055
SEP15;HS2ST1;HS2ST1;HNM	004261;NM_001134492	cg26823989F	TSS1500;1stExon;5'UTR	cg26823989
TMEM201;TMEM201	NM_001130924;NM_001010	cg26824326F	Body;3'UTR	cg26824326
		cg26826117F		cg26826117
FAM83C	NM_178468	cg26826207R	TSS200	cg26826207
		cg26832564R		cg26832564

		cg26835268R		cg26835268
		cg26835419F		cg26835419
		cg26835506F		cg26835506
		cg26836717F		cg26836717
C16orf45;C16orf45	NM_001142469;NM_033201	cg26837962R	Body;Body	cg26837962
		cg26839652R		cg26839652
SMARCC2;SMARCC2;SMN1	NM_001130420;NM_003075	cg26841507F	1stExon;5' UTR;5'UTR;5'	cg26841507
PTPN6;PTPN6;PTPN6	NM_080549;NM_080548;NM_080547	cg26842815F	TSS200;Body;TSS200	cg26842815
SPATA21;SPATA21	NM_198546;NM_198546	cg26845278R	1stExon;5'UTR	cg26845278
TRPV1;TRPV1;TRPV1	NM_018727;NM_080704;NM_080703	cg26848300F	5'UTR;5'UTR;TSS200	cg26848300
ANO10	NM_018075	cg26848963F	Body	cg26848963
AZI1;AZI1	NM_014984;NM_001009811	cg26849909R	Body;Body	cg26849909
ZFPM1	NM_153813	cg26850807R	TSS1500	cg26850807
		cg26852750F		cg26852750
ACTG1	NM_001614	cg26857837R	Body	cg26857837
NT5C2;NT5C2	NM_012229;NM_001134373	cg26859586R	TSS200;TSS200	cg26859586
CCDC135	NM_032269	cg26860120F	Body	cg26860120
TXNRD1	NM_001093771	cg26861960F	Body	cg26861960
ZNF205;ZNF205;MGC377	NM_003456;NM_001042428	cg26863821F	TSS1500;TSS1500;Body	cg26863821
C10orf140	NM_207371	cg26867545R	3'UTR	cg26867545
HSF4;HSF4;HSF4;HSF4;HSF4	NM_001040667;NM_001040667	cg26870771R	5'UTR;1stExon;1stExon;	cg26870771
TADA1	NM_053053	cg26870903F	TSS1500	cg26870903
RIC8A;BET1L;BET1L	NM_021932;NM_001098787	cg26871885R	TSS1500;TSS200;TSS200	cg26871885
ST8SIA4;ST8SIA4	NM_175052;NM_005668	cg26872028R	TSS1500;TSS1500	cg26872028
		cg26873329F		cg26873329
CPSF6	NM_007007	cg26873338F	Body	cg26873338
		cg26873413R		cg26873413
COL4A1;COL4A2	NM_001845;NM_001846	cg26875813R	Body;TSS1500	cg26875813
NUAK1	NM_014840	cg26877596F	TSS1500	cg26877596
FAM107B	NM_031453	cg26877720R	Body	cg26877720
		cg26877905F		cg26877905
RARA;RARA;RARA	NM_001145301;NM_000964	cg26878655R	5'UTR;5'UTR;5'UTR	cg26878655
MEF2D	NM_005920	cg26885488R	5'UTR	cg26885488
EDAR	NM_022336	cg26888063F	TSS200	cg26888063
		cg26888227R		cg26888227
CTSS	NM_004079	cg26891210R	3'UTR	cg26891210
ZNF451;ZNF451	NM_015555;NM_001031623	cg26891999F	TSS1500;TSS1500	cg26891999
		cg26893451R		cg26893451
GPR89A;GPR89A	NM_001097613;NM_001097613	cg26894807F	TSS1500;TSS1500	cg26894807
PDE8A;PDE8A	NM_173454;NM_002605	cg26896818F	Body;Body	cg26896818
MLNR	NM_001507	cg26897297R	Body	cg26897297
AGPAT6	NM_178819	cg26897681F	5'UTR	cg26897681
WWC2	NM_024949	cg26897712F	Body	cg26897712
LOC100133161	NR_028326	cg26900509R	Body	cg26900509
GABRD	NM_000815	cg26903053F	Body	cg26903053
		cg26905281R		cg26905281
CHD9	NM_025134	cg26909817F	Body	cg26909817
B3GAT1;B3GAT1	NM_018644;NM_054025	cg26912485F	Body;Body	cg26912485
C5orf41;C5orf41;C5orf41	NM_001168393;NM_001168393	cg26913563F	Body;Body;Body	cg26913563
CADPS2;CADPS2;CADPS2	NM_001009571;NM_001167	cg26914299R	Body;Body;Body	cg26914299
ATG9A;ATG9A	NM_024085;NM_001077198	cg26915351R	Body;Body	cg26915351
TRPM5	NM_014555	cg26917665F	TSS1500	cg26917665
		cg26923014R		cg26923014
ZNF563	NM_145276	cg26924223R	TSS1500	cg26924223

BAIAP2;BAIAP2;BAIAP2	NM_017450;NM_006340;NM_026927	cg26927218F	Body;Body;Body;Body	cg26927218
		cg26931475R		cg26931475
		cg26933866R		cg26933866
HAPLN4	NM_023002	cg26935649F	Body	cg26935649
TCF25	NM_014972	cg26937912R	Body	cg26937912
		cg26938847F		cg26938847
PEF1	NM_012392	cg26940109F	3'UTR	cg26940109
		cg26940751F		cg26940751
RP5-1022P6.2;RP5-1022P6	NM_019593;NM_019593	cg26942392F	1stExon;5'UTR	cg26942392
		cg26943187F		cg26943187
EPHB4	NM_004444	cg26944052R	TSS200	cg26944052
C8orf34	NM_052958	cg26944526R	Body	cg26944526
VPS4A	NM_013245	cg26945100R	Body	cg26945100
HPCAL1;HPCAL1	NM_134421;NM_002149	cg26947572R	TSS1500;TSS200	cg26947572
CACNA1H;CACNA1H	NM_021098;NM_001005407	cg26948823F	Body;Body	cg26948823
XIRP2;XIRP2	NM_152381;NM_001079810	cg26950369R	Body;Body	cg26950369
MZF1;MGC2752;LOC100	NM_003422;NR_026052;NR_026052	cg26954695F	TSS1500;TSS1500;Body	cg26954695
CPA4;CPA4	NM_016352;NM_001163446	cg26955275R	TSS1500;TSS1500	cg26955275
		cg26959913F		cg26959913
		cg26968620R		cg26968620
		cg26970795R		cg26970795
TXNRD1	NM_001093771	cg26973714F	TSS200	cg26973714
DENND2A	NM_015689	cg26975184R	Body	cg26975184
		cg26976060R		cg26976060
BAIAP2L1	NM_018842	cg26980996F	Body	cg26980996
YPEL3;YPEL3	NM_031477;NM_001145524	cg26982323F	Body;Body	cg26982323
		cg26984388F		cg26984388
		cg26986989R		cg26986989
LOC285830;LOC285830	NR_026972;NR_026973	cg26987604F	Body;Body	cg26987604
NFXL1	NM_152995	cg26987697R	5'UTR	cg26987697
GATA6	NM_005257	cg26987699R	Body	cg26987699
CCND2;CCND2	NM_001759;NM_001759	cg26989531R	1stExon;5'UTR	cg26989531
CCDC79	NM_001136505	cg26993213F	5'UTR	cg26993213
RAPGEF6;RAPGEF6;RAP	NM_001164388;NM_001164	cg26994227R	TSS200;TSS200;TSS200	cg26994227
CSRP2	NM_001321	cg26994885F	5'UTR	cg26994885
		cg27003309R		cg27003309
SOCS1	NM_003745	cg27003951F	TSS200	cg27003951
CTNNA2;CTNNA2	NM_004389;NM_001164883	cg27004195R	5'UTR;5'UTR	cg27004195
		cg27004640F		cg27004640
TMEM63B	NM_018426	cg27007197R	Body	cg27007197
DMBT1;DMBT1;DMBT1	NM_007329;NM_004406;NM_027015	cg27015047F	Body;Body;Body	cg27015047
		cg27016107R		cg27016107
STON1-GTF2A1L;STON1	NM_172311;NM_006873	cg27016609F	5'UTR;TSS1500	cg27016609
LRRC27;LRRC27	NM_001143757;NM_030626	cg27016988R	Body;Body	cg27016988
EMCN;EMCN	NM_016242;NM_001159694	cg27019278R	Body;Body	cg27019278
USP36	NM_025090	cg27021056F	TSS200	cg27021056
CLASP2	NM_015097	cg27021520R	TSS1500	cg27021520
HSPA1B	NM_005346	cg27021666F	TSS1500	cg27021666
LTK;LTK;LTK	NM_206961;NM_001135685	cg27021986R	Body;Body;Body	cg27021986
SPTBN1	NM_003128	cg27025722R	Body	cg27025722
OR10G4	NM_001004462	cg27026371F	TSS200	cg27026371
HSPA2	NM_021979	cg27026695F	TSS1500	cg27026695
TBX2	NM_005994	cg27027242F	3'UTR	cg27027242
SLC7A8	NM_012244	cg27035169F	TSS1500	cg27035169

TRIM55;TRIM55;TRIM55;NM_184086;NM_033058;NM_033183	cg27035277F	TSS1500;TSS1500;TSS1500	cg27035277
CGB8	cg27040708F	TSS1500	cg27040708
GCET2;GCET2	cg27043141F	5'UTR;Body	cg27043141
KCNIP1;KCNMB1	cg27044591F	Body;5'UTR	cg27044591
	cg27047494R		cg27047494
CMPK2;CMPK2	cg27051171R	1stExon;5'UTR	cg27051171
	cg27051453F		cg27051453
PAR3	cg27053542R	Body	cg27053542
	cg27057666R		cg27057666
	cg27059140F		cg27059140
	cg27060912F		cg27060912
	cg27061477R		cg27061477
CTR9	cg27062514R	3'UTR	cg27062514
EFNB1	cg27065374R	Body	cg27065374
PEBP1	cg27065869F	3'UTR	cg27065869
INE1;UBA1;UBA1	cg27072561R	TSS200;Body;Body	cg27072561
LOC146880;LOC146880	cg27072575F	TSS1500;TSS1500	cg27072575
	cg27077132F		cg27077132
PVR;PVR;PVR;PVR	cg27077673R	Body;Body;Body;Body	cg27077673
GABRA2;GABRA2	cg27080171R	Body;Body	cg27080171
SNX20;SNX20;SNX20	cg27081230R	TSS1500;TSS1500;TSS1500	cg27081230
	cg27081928R		cg27081928
TAGAP;TAGAP;TAGAP	cg27084622R	5'UTR;Body;Body	cg27084622
	cg27085560F		cg27085560
ADRB2	cg27086020F	TSS200	cg27086020
FAM38A	cg27087555R	Body	cg27087555
INPP5A	cg27087895F	Body	cg27087895
SORBS2;SORBS2;SORBS	cg27088384R	Body;Body;Body;Body;Body	cg27088384
	cg27089559F		cg27089559
ATP5EP2	cg27090007F	Body	cg27090007
CAPG	cg27090078R	Body	cg27090078
KRAS;KRAS	cg27093546F	TSS1500;TSS1500	cg27093546
	cg27093964F		cg27093964
EIF2C1	cg27094188R	TSS1500	cg27094188
	cg27094305F		cg27094305
FRMD1;FRMD1	cg27096477F	TSS200;Body	cg27096477
BCAR1;BCAR1;BCAR1;BCAR1	cg27098574F	Body;5'UTR;1stExon;Body	cg27098574
UNC93A;UNC93A	cg27099088F	Body;Body	cg27099088
	cg27101153R		cg27101153
CBFA2T3;CBFA2T3	cg27102297R	Body;Body	cg27102297
DNAH17	cg27105914R	Body	cg27105914
	cg27117179R		cg27117179
	cg27119428F		cg27119428
GLI2	cg27120020F	TSS1500	cg27120020
FLJ32065	cg27123423F	Body	cg27123423
TELO2	cg27125798R	Body	cg27125798
	cg27126251F		cg27126251
	cg27128311F		cg27128311
	cg27129076R		cg27129076
LMBRD2;SKP2;SKP2;LMBRD2	cg27130364F	1stExon;TSS1500;TSS1500	cg27130364
NLRP7;NLRP7;NLRP7	cg27131908F	TSS1500;TSS1500;TSS1500	cg27131908
	cg27131989F		cg27131989
C8orf84	cg27132335R	Body	cg27132335
RBPJL	cg27133230F	Body	cg27133230

TMCO7	NM_024562	cg27133493R cg27135286R cg27137389R	Body	cg27133493 cg27135286 cg27137389
RDBP	NM_002904	cg27137576F cg27144719R	Body	cg27137576 cg27144719
PIWIL1	NM_004764	cg27147004R	5'UTR	cg27147004
SFMBT2	NM_001029880	cg27147232F cg27147706R	Body	cg27147232 cg27147706
AMIGO2;AMIGO2	NM_001143668;NM_181847	cg27149388R cg27150849F	TSS200;TSS200	cg27149388 cg27150849
C16orf73;C16orf73	NM_152764;NM_001163560	cg27153327R	5'UTR;5'UTR	cg27153327
ZNF317	NM_020933	cg27159032R	3'UTR	cg27159032
SYT7	NM_004200	cg27165920R	3'UTR	cg27165920
PKP4;PKP4	NM_003628;NM_001005476	cg27167195F	5'UTR;5'UTR	cg27167195
HIPK4	NM_144685	cg27170720F	Body	cg27170720
ATP2C2	NM_014861	cg27176796F cg27177158R	Body	cg27176796 cg27177158
GPR157;GPR157	NM_024980;NM_024980	cg27178407F	1stExon;5'UTR	cg27178407
RIMS3	NM_014747	cg27180009R	5'UTR	cg27180009
ZSCAN5B	NM_001080456	cg27180368R	TSS1500	cg27180368
MAGOHB	NM_018048	cg27181079F	1stExon	cg27181079
CNO	NM_018366	cg27181650R	TSS200	cg27181650
RPA2	NM_002946	cg27182070F	3'UTR	cg27182070
APH1A;APH1A	NM_016022;NM_001077628	cg27182915R	TSS200;TSS200	cg27182915
ZNF276;ZNF276	NM_152287;NM_001113525	cg27182935F	Body;Body	cg27182935
SNIP1	NM_024700	cg27184249R cg27184867F	Body	cg27184249 cg27184867
FAIM2;FAIM2	NM_012306;NM_012306	cg27188703R	1stExon;5'UTR	cg27188703
OTOA;OTOA;OTOA	NM_170664;NM_001161683	cg27192602R	Body;Body;Body	cg27192602
PTPRG	NM_002841	cg27192606R	Body	cg27192606
HLA-DOA	NM_002119	cg27193345R	Body	cg27193345
PHIP	NM_017934	cg27194049F	TSS200	cg27194049
ADK;ADK	NM_001123;NM_006721	cg27194173F cg27196768R cg27198899R	Body;Body	cg27194173 cg27196768 cg27198899
GATA2	NM_032638	cg27199494F	TSS1500	cg27199494
GMDS	NM_001500	cg27205941R cg27206295F	TSS200	cg27205941 cg27206295
ANKRD11	NM_013275	cg27206321F cg27206407R	5'UTR	cg27206321 cg27206407
CLCNKA;CLCNKA	NM_001042704;NM_004070	cg27210447F	5'UTR;5'UTR	cg27210447
SATB1	NM_001131010	cg27212369F cg27212917R	TSS200	cg27212369 cg27212917
EVX2	NM_001080458	cg27213509R	Body	cg27213509
ODZ4	NM_001098816	cg27214378R	5'UTR	cg27214378
SDK1	NM_152744	cg27215475R cg27218227R	Body	cg27215475 cg27218227
ZFPM1	NM_153813	cg27218484F	Body	cg27218484
FAM20C	NM_020223	cg27221674R cg27222274F	Body	cg27221674 cg27222274
FLYWCH1;FLYWCH1	NM_020912;NM_032296	cg27223663R cg27225422R	Body;Body	cg27223663 cg27225422
HCCA2;LOC402778	NM_053005;NM_001170820	cg27226043F	Body;TSS1500	cg27226043
TRAIP	NM_005879	cg27233566F	TSS200	cg27233566

EPHA6;EPHA6	NM_173655;NM_001080448	cg27233997R	Body;Body	cg27233997
CRTC3;CRTC3	NM_022769;NM_001042574	cg27234648F	Body;Body	cg27234648
PPP1R15B	NM_032833	cg27234786R cg27235150F	TSS1500	cg27234786 cg27235150
ERBB4;ERBB4	NM_005235;NM_001042599	cg27236875R	TSS200;TSS200	cg27236875
C6orf221	NM_001017361	cg27237745R	TSS200	cg27237745
ITGB1;ITGB1;ITGB1	NM_002211;NM_002211;NM_002211	cg27238079F	5'UTR;1stExon;TSS1500	cg27238079
ZC3H8;ZC3H8	NM_032494;NM_032494	cg27242549R	5'UTR;1stExon	cg27242549
CTTN;CTTN	NM_005231;NM_138565	cg27243121R cg27243560R	3'UTR;3'UTR	cg27243121 cg27243560
LOC100128640;ACVR2B	NR_028389;NM_001106	cg27244524F	Body;TSS1500	cg27244524
HLA-DOB	NM_002120	cg27246453F	Body	cg27246453
IDE	NM_004969	cg27247650R	TSS200	cg27247650
PAICS;PAICS;PAICS;PAICS	NM_001079524;NM_001079	cg27247723F	5'UTR;1stExon;1stExon;	cg27247723
ANKRD10	NM_017664	cg27248875F	Body	cg27248875
NELL1;NELL1	NM_006157;NM_201551	cg27251236R	Body;Body	cg27251236
N6AMT2	NM_174928	cg27251720F	Body	cg27251720
ANKRD11	NM_013275	cg27258283R	Body	cg27258283
SDCCAG8	NM_006642	cg27259271R	Body	cg27259271
TRA2B	NM_004593	cg27261002R	TSS1500	cg27261002
APRT;APRT	NM_001030018;NM_000485	cg27262702R cg27265573F	TSS1500;TSS1500	cg27262702 cg27265573
ATP2B2;ATP2B2	NM_001683;NM_001001331	cg27265617F	Body;Body	cg27265617
H6PD;H6PD	NM_004285;NM_004285	cg27266479R	5'UTR;1stExon	cg27266479
SLC6A20;SLC6A20	NM_020208;NM_022405	cg27269492F cg27272293F cg27272853R cg27274072F cg27274135F	Body;Body	cg27269492 cg27272293 cg27272853 cg27274072 cg27274135
GUSBL1	NR_003504	cg27275133R	Body	cg27275133
FCHSD2	NM_014824	cg27276613R cg27277439R	Body	cg27276613 cg27277439
SNORD114-25	NR_003218	cg27278001F	TSS1500	cg27278001
ADCY6	NM_020983	cg27279809F cg27282922F	TSS1500	cg27279809 cg27282922
INF2;INF2;INF2	NM_022489;NM_032714;NM_032714	cg27286011R	5'UTR;5'UTR;5'UTR	cg27286011
KANK2	NM_001136191	cg27288936F cg27289079F cg27289501R	TSS200	cg27288936 cg27289079 cg27289501
MAP1B	NM_005909	cg27296759R	3'UTR	cg27296759
ELAVL3;ELAVL3	NM_001420;NM_032281	cg27296944R	3'UTR;3'UTR	cg27296944
NT5E	NM_002526	cg27297263F	Body	cg27297263
KCNAB2;KCNAB2	NM_003636;NM_172130	cg27298072F cg27298662R	Body;Body	cg27298072 cg27298662
TPST1	NM_003596	cg27301230F	Body	cg27301230
PPIA	NM_021130	cg27303125F	TSS1500	cg27303125
TSPAN8	NM_004616	cg27304204F	5'UTR	cg27304204
BNC1	NM_001717	cg27304406F	TSS1500	cg27304406
KIF20B	NM_016195	cg27308707R	TSS1500	cg27308707
UNKL	NM_001037125	cg27309189F	TSS200	cg27309189
C6orf203;C6orf203;C6orf203	NM_016487;NM_001142470	cg27311710F	TSS200;TSS200;TSS200	cg27311710
SNORA39;SNORA60;SNHNR	NR_002972;NR_002986;NR_002986	cg27314048R	TSS200;TSS1500;Body	cg27314048
KCND3;KCND3	NM_172198;NM_004980	cg27314324F	Body;Body	cg27314324

KCNJ9	NM_004983	cg27314798R cg27315635R	TSS1500	cg27314798 cg27315635
RCBTB2	NM_001268	cg27317017R cg27317694R cg27318774R	5'UTR	cg27317017 cg27317694 cg27318774
FLJ44606;FLJ44606	NM_001164478;NM_001164	cg27323430F	Body;Body	cg27323430
GTF2H2C;GTF2H2C;GTF	NM_001098728;NM_001098	cg27324075R	5'UTR;1stExon;TSS200	cg27324075
GNG7	NM_052847	cg27324541R	5'UTR	cg27324541
CES3	NM_024922	cg27329196F	3'UTR	cg27329196
MAGEB16	NM_001099921	cg27329995F	TSS200	cg27329995
ARL2BP	NM_012106	cg27333274R	TSS200	cg27333274
CDYL;CDYL;CDYL;CDY	NM_004824;NR_026590;NM	cg27333460R cg27335947R cg27337199F	Body;Body;Body;Body	cg27333460 cg27335947 cg27337199
NEDD4L;NEDD4L;NEDD	NM_001144964;NM_015277	cg27337209R	5'UTR;Body;TSS1500;5'	cg27337209
FLJ43663;FLJ43663	NR_015431;NR_024153	cg27337540F	Body;Body	cg27337540
KCTD13	NM_178863	cg27337803F	TSS1500	cg27337803
SLC41A3;SLC41A3;SLC4	NM_017836;NM_001008485	cg27338897F	5'UTR;5'UTR;5'UTR;5'U	cg27338897
GPR116;GPR116	NM_015234;NM_001098518	cg27342314F	Body;Body	cg27342314
LOC100132215	NR_027069	cg27344587F cg27346037F	TSS1500	cg27344587 cg27346037
ATP2A1;ATP2A1	NM_173201;NM_004320	cg27347003R cg27348440F	3'UTR;3'UTR	cg27347003 cg27348440
UCN3	NM_053049	cg27349333R	TSS200	cg27349333
UBB	NM_018955	cg27351675R cg27351816F cg27356115R	TSS200	cg27351675 cg27351816 cg27356115
CDGAP	NM_020754	cg27356396F	Body	cg27356396
GINS2	NM_016095	cg27360527R cg27360762R	TSS200	cg27360527 cg27360762
C10orf35	NM_145306	cg27361174F	Body	cg27361174
TBXA2R;TBXA2R	NM_201636;NM_001060	cg27364916R	Body;Body	cg27364916
C10orf11	NM_032024	cg27366964F	Body	cg27366964
CLPB	NM_030813	cg27367093R	TSS200	cg27367093
ST8SIA4;ST8SIA4	NM_175052;NM_005668	cg27367469R cg27367722F	TSS1500;TSS1500	cg27367469 cg27367722
MT1G	NM_005950	cg27367960R	TSS200	cg27367960
YPEL4	NM_145008	cg27368025R	Body	cg27368025
ZBTB22;TAPBP;TAPBP;T	NM_005453;NM_003190;NM	cg27368379F	Body;TSS1500;TSS1500	cg27368379
PANX3	NM_052959	cg27371539R	Body	cg27371539
LGALS12;LGALS12;LGAL	NM_001142535;NM_033101	cg27376024R	5'UTR;1stExon;5'UTR;1	cg27376024
MPRIP;MPRIP	NM_015134;NM_201274	cg27376514F	Body;Body	cg27376514
CSPG4	NM_001897	cg27378180R	TSS1500	cg27378180
AP2A2	NM_012305	cg27380774F	Body	cg27380774
CIAO1;CIAO1;TMEM127	NM_004804;NM_004804;NM	cg27381194R	1stExon;5'UTR;TSS1500	cg27381194
MTRR;FASTKD3;MTRR	NM_024010;NM_024091;NM	cg27381216R	Body;TSS1500;5'UTR	cg27381216
ZNF438;ZNF438;ZNF438;Z	NM_001143769;NM_001143	cg27383537R	5'UTR;5'UTR;5'UTR;5'U	cg27383537
BRCA1;BRCA1;BRCA1;B	NM_007298;NM_007300;NM	cg27383744R	Body;Body;Body;Body;B	cg27383744
SEMA3F	NM_004186	cg27385773F cg27387888F	Body	cg27385773 cg27387888
ACCN1;ACCN1	NM_001094;NM_183377	cg27391921R	3'UTR;3'UTR	cg27391921
NFIX	NM_002501	cg27392771F cg27392815R	Body	cg27392771 cg27392815
GLIS1;GLIS1	NM_147193;NM_147193	cg27397757R	5'UTR;1stExon	cg27397757

AGXT	NM_000030	cg27398423R	Body	cg27398423
ETV5	NM_004454	cg27400923F	TSS200	cg27400923
SP1;SP1;SP1	NM_003109;N I_003109;NM	cg27401989F	5'UTR;1stExon;Body	cg27401989
		cg27402180R		cg27402180
AP2A2	NM_012305	cg27402845F	Body	cg27402845
		cg27404272R		cg27404272
GPR123	NM_001083909	cg27405177R	Body	cg27405177
TFF1	NM_003225	cg27405706F	TSS200	cg27405706
HSD17B7P2	NR_003086	cg27407289R	Body	cg27407289
		cg27409870F		cg27409870
RP1L1	NM_178857	cg27411982F	Body	cg27411982
AZI1;AZI1	NM_014984;NM_001009811	cg27412613R	Body;Body	cg27412613
KCNQ5;KCNQ5;KCNQ5;	NM_001160130;NM_001160	cg27412680R	Body;Body;Body;Body;B	cg27412680
		cg27413928R		cg27413928
		cg27416412R		cg27416412
AQP9	NM_020980	cg27417578R	TSS1500	cg27417578
CALY	NM_015722	cg27417926F	5'UTR	cg27417926
		cg27419419R		cg27419419
		cg27421491F		cg27421491
		cg27422721F		cg27422721
FRMD4B	NM_015123	cg27423627R	Body	cg27423627
		cg27424206R		cg27424206
CACNA1G;CACNA1G;CANM_198384;NM_198379;NM		cg27426707F	Body;Body;Body;Body;B	cg27426707
		cg27426921F		cg27426921
CD52	NM_001803	cg27430637R	3'UTR	cg27430637
ZBTB4;ZBTB4;ZBTB4	NM_001128833;NM_001128	cg27432036F	1stExon;5'UTR;5'UTR	cg27432036
C15orf52	NM_207380	cg27433395F	3'UTR	cg27433395
PTCH2;PTCH2	NM_001166292;NM_003738	cg27433934F	TSS1500;TSS1500	cg27433934
PARK7;PARK7	NM_007262;NM_001123377	cg27437868R	Body;Body	cg27437868
FAM155B	NM_015686	cg27437966R	Body	cg27437966
SDC4	NM_002999	cg27440965F	3'UTR	cg27440965
FARP2	NM_014808	cg27444437F	5'UTR	cg27444437
DSC1;DSC1	NM_004948;NM_024421	cg27444744R	Body;Body	cg27444744
		cg27447874R		cg27447874
		cg27448496R		cg27448496
		cg27450924R		cg27450924
APOBEC3C	NM_014508	cg27451450F	3'UTR	cg27451450
ALG12;CRELD2;CRELD2	NM_024105;NM_024324;NM	cg27452651R	TSS1500;5' JTR;5'UTR;lc	cg27452651
		cg27452844F		cg27452844
ZNF282	NM_003575	cg27453922F	3'UTR	cg27453922
MPO	NM_000250	cg27456487R	Body	cg27456487
MAPT;MAPT;MAPT;MAPNM_001123067;NM_016835		cg27457921R	5'UTR;5'UTR;5'UTR;5'U	cg27457921
FASN	NM_004104	cg27460534R	Body	cg27460534
PPARGC1A	NM_013261	cg27461259R	TSS1500	cg27461259
		cg27464378F		cg27464378
RTN4RL1	NM_178568	cg27466709F	Body	cg27466709
		cg27468830R		cg27468830
RCOR2	NM_173587	cg27470027F	TSS1500	cg27470027
TBX2	NM_005994	cg27470066F	Body	cg27470066
		cg27471183R		cg27471183
OR2J2	NM_030905	cg27475805R	1stExon	cg27475805
COG5;COG5;COG5	NM_006348;NM_001161520	cg27476881R	Body;Body;Body	cg27476881
ENPP7	NM_178543	cg27478603F	3'UTR	cg27478603
		cg27480444R		cg27480444



		cg27485152F		cg27485152
		cg27487959F		cg27487959
ASXL2	NM_018263	cg27492103R	Body	cg27492103
PTRF	NM_012232	cg27494254R	Body	cg27494254
		cg27496936R		cg27496936
ZNF605;ZNF605	NM_001164715;NM_183238	cg27497699R	5'UTR;5'UTR	cg27497699
CHIA;CHIA	NM_021797;NM_201653	cg27497781F	TSS200;TSS200	cg27497781
NECAB3;NECAB3	NM_031231;NM_031232	cg27498669R	Body;Body	cg27498669
		cg27500067R		cg27500067
CUEDC1	NM_017949	cg27500337F	5'UTR	cg27500337
CACNA1C;CACNA1C;CANM_001129844;NM_001129		cg27501686R	Body;Body;Body;Body;Body	cg27501686
SPHK1;SPHK1;SPHK1;SP	NM_182965;NM_021972;NM_021972	cg27502066R	TSS1500;TSS1500;TSS1500	cg27502066
NCOR2;NCOR2	NM_006312;NM_001077261	cg27505193R	Body;Body	cg27505193
DEPDC5;DEPDC5;DEPDC5	NM_014662;NM_001136029	cg27506210R	5'UTR;TSS200;5'UTR	cg27506210
		cg27508314F		cg27508314
KIF3C	NM_002254	cg27509510F	Body	cg27509510
SLC24A6	NM_024959	cg27510671R	Body	cg27510671
SCARA3;SCARA3	NM_182826;NM_016240	cg27512316R	Body;Body	cg27512316
		cg27514530F		cg27514530
MTMR3;MTMR3;MTMR3	NM_153050;NM_153051;NM_153051	cg27515255F	5'UTR;1stExon;5'UTR;1stExon	cg27515255
CCDC102A	NM_033212	cg27518892R	5'UTR	cg27518892
PFKP	NM_002627	cg27520104R	Body	cg27520104
POLDIP2;POLDIP2;TMEM162	NM_015584;NM_015584;NM_015584	cg27520502F	1stExon;5'UTR;TSS200	cg27520502
		cg27523780F		cg27523780
GLUL;GLUL;GLUL	NM_001033044;NM_001033	cg27525037R	TSS200;TSS1500;TSS200	cg27525037
		cg27526429R		cg27526429
		cg27529630R		cg27529630
SLC38A10;SLC38A10	NM_001037984;NM_138570	cg27529668R	Body;3'UTR	cg27529668
		cg27532955R		cg27532955
MS4A2;MS4A2;MS4A2;MNM_001142303;NM_000139		cg27533472R	1stExon;5'UTR;1stExon;5'UTR	cg27533472
RMST;MIR1251	NR_024037;NR_031653	cg27533635R	Body;TSS1500	cg27533635
SUCLG2	NM_003848	cg27533999R	Body	cg27533999
		cg27537306F		cg27537306
SEZ6L2;SEZ6L2;ASPHD1	NM_012410;NM_201575;NM_201575	cg27539546F	TSS1500;TSS1500;TSS1500	cg27539546
RER1	NM_007033	cg27540799F	3'UTR	cg27540799
ZFP3	NM_153018	cg27543064F	Body	cg27543064
MCF2	NM_001099855	cg27543728F	5'UTR	cg27543728
		cg27545296R		cg27545296
PFKFB3;PFKFB3	NM_004566;NM_001145443	cg27545615R	Body;Body	cg27545615
DIP2C	NM_014974	cg27546718F	Body	cg27546718
URGCP;UBE2D4	NM_001077664;NM_015983	cg27549208F	5'UTR;TSS1500	cg27549208
ALPK3	NM_020778	cg27551169R	Body	cg27551169
PRKRIP1	NM_024653	cg27553708R	TSS1500	cg27553708
SNTG2	NM_018968	cg27553988R	Body	cg27553988
FBXO42	NM_018994	cg27555392R	TSS200	cg27555392
DALRD3;DALRD3	NM_001009996;NM_018114	cg27555944F	TSS200;5'UTR	cg27555944
GTDC1;GTDC1;GTDC1	NM_001164629;NM_024659	cg27559097F	5'UTR;5'UTR;5'UTR	cg27559097
		cg27559399F		cg27559399
		cg27560132F		cg27560132
CNO	NM_018366	cg27560555R	TSS1500	cg27560555
CNTNAP2	NM_014141	cg27562595F	Body	cg27562595
		cg27563032R		cg27563032
BCL2	NM_000633	cg27569829R	Body	cg27569829
LRRN1	NM_020873	cg27570309R	5'UTR	cg27570309

FAM53A	NM_001013622	cg27571057F cg27572074F cg27573735F cg27574817F	Body	cg27571057 cg27572074 cg27573735 cg27574817
TBCD	NM_005993	cg27579854R cg27583038R cg27583740R	Body	cg27579854 cg27583038 cg27583740
SLC12A7	NM_006598	cg27585120R	Body	cg27585120
RALB	NM_002881	cg27585557F	5'UTR	cg27585557
NPR1	NM_000906	cg27586207R	3'UTR	cg27586207
AP2A2	NM_012305	cg27587257F cg27589988F	Body	cg27587257 cg27589988
FAM13B;FAM13B;FAM13	NM_001101801;NM_016603	cg27590591R cg27592309F	TSS200;TSS200;TSS200	cg27590591 cg27592309
BTBD12	NM_032444	cg27596226R	Body	cg27596226
ULK1	NM_003565	cg27597145R cg27600072F cg27600804F cg27606397R	Body	cg27597145 cg27600072 cg27600804 cg27606397
PRDM11	NM_020229	cg27607372R cg27611827F	Body	cg27607372 cg27611827
TLN2	NM_015059	cg27613016F	3'UTR	cg27613016
HRNBP3	NM_001082575	cg27614120F	5'UTR	cg27614120
CACNA1H;CACNA1H	NM_021098;NM_001005407	cg27616039R	Body;Body	cg27616039
CNTNAP1	NM_003632	cg27616541F	Body	cg27616541
CNTNAP2	NM_014141	cg27616595R cg27620457F	Body	cg27616595 cg27620457
RADIL	NM_018059	cg27624684F	Body	cg27624684
SLC30A10	NM_018713	cg27629095R cg27629898F	Body	cg27629095 cg27629898
CEP152	NM_014985	cg27630352R	5'UTR	cg27630352
LPIN1	NM_145693	cg27631877R cg27633463R cg27633941R	Body	cg27631877 cg27633463 cg27633941
AGAP1;AGAP1	NM_014914;NM_001037131	cg27634020F	Body;Body	cg27634020
TMPRSS11D	NM_004262	cg27634130R cg27634688R	3'UTR	cg27634130 cg27634688
MYT1L	NM_015025	cg27635110R	Body	cg27635110
CBFA2T3	NM_005187	cg27639575R	Body	cg27639575
NTM;NTM;NTM;NTM	NM_016522;NM_001144059	cg27644715F	TSS1500;TSS1500;TSS1500	cg27644715
PTPRS;PTPRS;PTPRS;PTPNM	NM_130855;NM_002850;NM_002850;NM_002850	cg27649253R	Body;Body;Body;Body	cg27649253
ZNF8	NM_021089	cg27649653R	TSS1500	cg27649653
PPHLN1;PPHLN1	NM_001143787;NM_016488	cg27650480F cg27650906R cg27652869R cg27655168F cg27656070R	3'UTR;3'UTR	cg27650480 cg27650906 cg27652869 cg27655168 cg27656070
VSNL1	NM_003385	cg27656592F	Body	cg27656592
GPR126;GPR126;GPR126;GPR126	NM_020455;NM_001032394	cg27656786F cg27658030R cg27658460F	Body;Body;Body;Body	cg27656786 cg27658030 cg27658460
TRIM65	NM_173547	cg27659478R cg27662789F	Body	cg27659478 cg27662789
LOC100128788;SRRM2	NR_027275;NM_016333	cg27663249F	Body;TSS1500	cg27663249

ANKRD53;ANKRD53 DECR2	NM_001115116;NM_024933 NM_020664	cg27665449F cg27665823F ch.1.242086F ch.1.551815F ch.12.49617F	TSS1500;TSS1500 Body	cg27665449 cg27665823 ch.1.242086 ch.1.551815 ch.12.49617
KRAS;KRAS	NM_033360;NM_004985	ch.12.57071F ch.15.37208F	Body;Body	ch.12.57071 ch.15.37208
USP39	NM_006590	ch.2.189200F ch.2.199803F ch.4.113910F	Body	ch.2.189200 ch.2.199803 ch.4.113910
SAMD12	NM_001101676	ch.8.235361F ch.8.903271F	Body	ch.8.235361 ch.8.903271
INVS;INVS	NM_014425;NM_183245	ch.9.151849F	Body;Body	ch.9.151849

**us tissues) vs C (pancreatic cancer tissue) and A (Blood) vs B (pericarcinous tis**

<b>P_BvsC</b>	<b>P_AvsB</b>	<b>Diffscore1(AvsB)</b>	<b>Diffscore2(CvsB)</b>	<b>Mean_A</b>	<b>Mean_B</b>	<b>Mean_C</b>	<b>Delta_CvsB</b>
0.030239	0.00193	27.14418	15.19435	0.8160648	0.6888029	0.7514988	0.06269585
0.010086	5.18E-05	42.85907	19.96301	0.3858984	0.8568532	0.7239166	-0.1329367
7.01E-05	4.38E-05	43.58606	41.54367	0.1879302	0.0921617	0.1806705	0.08850887
0.023207	0.0011	29.57535	16.34372	0.2043504	0.3910593	0.5575649	0.1665056
0.04198	0.00259	25.86033	13.76958	0.2198052	0.3442123	0.4034206	0.05920827
0.009167	0.0476	13.22399	20.37758	0.7282213	0.7869655	0.693939	-0.09302648
0.020508	0.00965	20.15587	16.88083	0.890438	0.6320555	0.8350177	0.2029622
0.005589	0.00368	24.34201	22.52695	0.6774277	0.7835871	0.6787435	-0.1048436
0.003174	0.00119	29.23271	24.98419	0.24933	0.1771729	0.2492093	0.07203634
0.005319	0.00151	28.22105	22.74148	0.7824694	0.8885776	0.8026514	-0.08592625
0.025834	0.02876	15.41276	15.87804	0.6605709	0.7527307	0.6604879	-0.09224278
0.027567	0.00708	21.5001	15.59611	0.1235276	0.1996059	0.3166087	0.1170029
0.013872	0.00424	23.7291	18.57859	0.2774951	0.1301993	0.2360566	0.1058573
0.031352	0.0055	22.60031	15.0373	0.1423063	0.285862	0.193111	-0.09275103
0.007184	0.00818	20.87344	21.43649	0.1797098	0.1030933	0.1792914	0.07619817
0.000117	0.00027	35.61626	39.31117	0.4373495	0.5646275	0.7024674	0.1378399
0.029838	0.02576	15.89065	15.25235	0.8206574	0.8901457	0.8259867	-0.06415894
0.031645	0.02676	15.72563	14.99692	0.8221716	0.8811208	0.8253755	-0.05574527
0.007506	0.0011	29.57506	21.24591	0.2342059	0.1026961	0.2018105	0.09911443
0.002753	0.00012	39.04775	25.60239	0.2134929	0.4997681	0.6637232	0.1639551
0.024552	0.00695	21.58031	16.0991	0.7478415	0.5154812	0.6711698	0.1556886
0.006828	0.00257	25.89363	21.6569	0.9509234	0.8322335	0.7562224	-0.07601114
0.002045	9.88E-05	40.05379	26.89268	0.1701065	0.3952016	0.530103	0.1349013
0.029951	0.00373	24.28781	15.23584	0.4728984	0.3448396	0.4137885	0.06894896
0.037358	0.01782	17.48973	14.27616	0.870504	0.775832	0.6522454	-0.1235866
0.024449	1.04E-06	59.83284	16.1174	0.1087612	0.4774207	0.5628635	0.08544283
0.011528	0.00587	22.31186	19.38255	0.8973097	0.8226995	0.8911883	0.06848876
0.030835	0.02162	16.65149	15.10953	0.786935	0.7187053	0.7794501	0.0607448
0.025602	0.00948	20.23182	15.91718	0.6544116	0.7191877	0.6365712	-0.08261652
0.017507	0.03627	14.40437	17.56783	0.8832329	0.8264191	0.9026189	0.07619976
0.00921	0.00269	25.70561	20.35761	0.1904444	0.1137789	0.1738852	0.06010629
0.042858	0.00343	24.65245	13.67964	0.8802793	0.6780087	0.7735576	0.09554888
3.93E-05	1.71E-05	47.66475	44.06012	0.6608678	0.8073734	0.6732013	-0.1341721
0.000353	6.81E-05	41.6662	34.52275	0.1993225	0.1007942	0.1767388	0.07594457
0.000742	0.00024	36.24865	31.29788	0.561786	0.6719338	0.5712442	-0.1006895
0.004768	0.04702	13.27718	23.21621	0.1056592	0.1814483	0.3263015	0.1448531
0.043242	0.03187	14.96663	13.6409	0.9300787	0.732384	0.5688626	-0.1635214
0.019171	0.00078	31.10275	17.17347	0.3460808	0.4856526	0.4091589	-0.07649367
0.022267	0.00695	21.58129	16.52335	0.4581876	0.56037	0.6274533	0.06708322
0.006631	0.0026	25.85219	21.78401	0.2184763	0.1392048	0.2086911	0.0694863
0.016476	0.00715	21.45898	17.83138	0.8554944	0.6825819	0.8134287	0.1308468
0.002631	4.33E-05	43.63691	25.79859	0.0844251	0.3084045	0.3925226	0.08411804
0.040847	0.00018	37.53978	13.88843	0.8794797	0.7508827	0.6807481	-0.0701346
0.015777	0.00764	21.16781	18.01977	0.9040738	0.8292588	0.8884149	0.05915614
0.029962	0.00495	23.05515	15.23436	0.8218122	0.6431563	0.7473559	0.1041996
0.015321	0.00529	22.76637	18.14709	0.4436728	0.3763536	0.4269656	0.05061199
0.046575	0.04369	13.59639	13.31845	0.5719356	0.6298608	0.5710488	-0.05881204
0.007802	0.00041	33.88452	21.07797	0.7895045	0.5099956	0.6527435	0.1427478

0.017615	0.00027	35.76123	17.54114	0.788625	0.6620628	0.5742894	-0.08777344
0.020564	0.00207	26.83418	16.86895	0.3178029	0.1529593	0.2359923	0.08303307
0.006062	0.0073	21.36733	22.17408	0.6048515	0.7250841	0.6046535	-0.1204306
0.003871	0.04295	13.67084	24.12171	0.7433041	0.6369276	0.7153125	0.0783849
0.015564	0.00263	25.80824	18.07867	0.8428982	0.7275357	0.6029428	-0.124593
0.007044	0.0098	20.08712	21.52164	0.871582	0.8173675	0.888763	0.07139553
0.017556	0.03207	14.93846	17.55573	0.5064239	0.4307305	0.5232536	0.09252311
0.034145	0.0004	33.98711	14.66667	0.593149	0.3920349	0.4545005	0.06246563
0.022917	0.01218	19.14182	16.39848	0.8060594	0.7304787	0.7960331	0.06555434
0.016028	0.00925	20.33915	17.95122	0.1822806	0.1175556	0.1744572	0.05690167
0.013367	0.00877	20.56955	18.7396	0.7173139	0.8049092	0.7146196	-0.09028968
0.005916	0.00063	31.99936	22.27987	0.795846	0.8770236	0.8128731	-0.06415052
0.035452	0.03929	14.05696	14.50364	0.7297208	0.8138614	0.7314937	-0.08236772
0.010784	5.00E-05	43.01158	19.67201	0.765495	0.5112963	0.6115361	0.1002398
0.041822	0.00078	31.08117	13.78591	0.8583869	0.6874053	0.6315491	-0.05585624
0.001689	9.74E-05	40.11487	27.72489	0.7789884	0.5777799	0.7033249	0.125545
0.000728	0.00063	31.97896	31.38034	0.1362541	0.0666727	0.1183286	0.05165586
0.00334	0.00103	29.87358	24.76225	0.1137252	0.054322	0.1072622	0.0529402
0.010692	0.00729	21.3752	19.70953	0.099644	0.2041099	0.1051184	-0.09899146
0.008466	0.00794	21.00103	20.72342	0.7569284	0.8290864	0.7670894	-0.06199702
0.005764	0.00149	28.26105	22.39263	0.705561	0.6339148	0.6945208	0.06060603
0.011489	0.01001	19.99588	19.39718	0.2204903	0.1382603	0.2131424	0.07488213
0.000537	0.00044	33.5718	32.69979	0.8273423	0.8978823	0.8266674	-0.07121494
0.013227	0.0419	13.77802	18.78532	0.1465836	0.2295853	0.3818891	0.1523037
0.003374	0.01734	17.6105	24.71877	0.7904429	0.8597054	0.7653301	-0.09437527
0.003203	0.01048	19.79552	24.94476	0.8278415	0.9091826	0.7953728	-0.1138098
0.006803	0.00809	20.9203	21.67315	0.3204974	0.2225402	0.314974	0.09243374
0.045233	0.00678	21.68914	13.44544	0.8938254	0.6987561	0.6064748	-0.09228131
0.036125	0.01678	17.75117	14.42191	0.2554591	0.3954823	0.2678241	-0.1276582
0.003033	0.00282	25.49977	25.18194	0.8868591	0.7898995	0.8769313	0.0870317
0.039617	0.00431	23.65199	14.02114	0.0927543	0.2722836	0.1908692	-0.08141439
0.003216	0.00977	20.10248	24.92715	0.8228872	0.8916887	0.8092738	-0.08241485
0.030969	0.00435	23.61541	15.09069	0.4852208	0.7129896	0.5821707	-0.1308189
0.027235	0.0264	15.78341	15.6487	0.5532038	0.6267761	0.5481458	-0.07863031
0.000824	0.00684	21.65191	30.84273	0.1207985	0.0683942	0.1273058	0.05891164
0.02565	0.00739	21.31475	15.90913	0.7423084	0.6547417	0.7150363	0.06029468
0.004577	0.00064	31.92131	23.39387	0.8880104	0.7368309	0.6400788	-0.09675211
0.003088	4.22E-05	43.74674	25.10325	0.7759537	0.8559452	0.747798	-0.1081472
0.026352	0.02073	16.83363	15.7918	0.9038177	0.8480886	0.8984872	0.05039857
0.040942	0.00973	20.11761	13.87829	0.837414	0.6645076	0.5599671	-0.1045405
0.000779	0.00076	31.20262	31.08463	0.3075238	0.216872	0.2937413	0.07686926
1.70E-05	0.00013	38.74425	47.69817	0.6364971	0.6993533	0.580795	-0.1185582
0.011494	0.00884	20.53349	19.39524	0.8960093	0.8212576	0.8956681	0.0744105
0.04545	0.03017	15.2042	13.42465	0.6980421	0.7668869	0.7077686	-0.05911833
0.025645	0.00387	24.12601	15.90996	0.7993668	0.7052876	0.6188272	-0.08646045
0.048716	0.00254	25.9442	13.12332	0.1060889	0.1726254	0.2840106	0.1113853
6.96E-06	6.07E-07	62.16793	51.5742	0.6176726	0.7160199	0.6567243	-0.05929556
0.049852	0.03991	13.98938	13.02316	0.699741	0.5388978	0.6848373	0.1459395
0.048857	0.01826	17.38428	13.11072	0.2459722	0.1213455	0.2070266	0.08568107
0.000143	0.00128	28.92987	38.44623	0.4996542	0.5770174	0.4556411	-0.1213763
0.001654	0.00113	29.46859	27.81553	0.4922622	0.7259718	0.5426036	-0.1833682
0.028061	0.02328	16.32933	15.51901	0.8103169	0.7252346	0.8027767	0.07754209
9.65E-05	0.00028	35.5638	40.15662	0.6246004	0.7338963	0.6024063	-0.13149
0.003978	0.00163	27.88091	24.00349	0.371694	0.1952599	0.3330234	0.1377635

0.000259	0.00023	36.47745	35.86167	0.701046	0.8561384	0.7206317	-0.1355067
0.049094	0.04713	13.26743	13.08975	0.0967132	0.1495046	0.2318956	0.0823909
0.005206	0.00315	25.0152	22.8348	0.7168906	0.7965279	0.7228965	-0.07363145
0.011018	8.33E-05	40.79529	19.57904	0.8018115	0.6319931	0.7233557	0.09136261
8.46E-05	0.00029	35.4503	40.72775	0.4956766	0.5813773	0.4766458	-0.1047314
0.006752	0.02146	16.6829	21.70591	0.5860953	0.6693589	0.558951	-0.1104079
0.002918	0.00012	39.17147	25.34896	0.364749	0.5840668	0.6700815	0.08601467
0.040548	0.00254	25.94445	13.92025	0.8824636	0.7181414	0.790961	0.07281957
0.02897	0.00435	23.61728	15.38058	0.7521603	0.5658026	0.6730962	0.1072936
0.035838	0.01375	18.61685	14.45654	0.7691301	0.5947274	0.7258887	0.1311613
0.010003	0.00327	24.85222	19.9985	0.8848202	0.8273752	0.8789375	0.05156233
0.045811	0.01974	17.04642	13.39033	0.8465318	0.7426805	0.6475084	-0.09517209
0.042761	0.01812	17.41776	13.68955	0.8302642	0.7336384	0.8074595	0.07382111
0.041803	0.00704	21.52319	13.78796	0.4190333	0.5905411	0.6909804	0.1004393
0.008145	0.00223	26.5196	20.89099	0.2365967	0.3273088	0.4156887	0.08837989
0.000228	0.00029	35.4471	36.41202	0.7494233	0.6828349	0.7506738	0.0678389
0.050001	0.00662	21.78864	13.01023	0.4706289	0.295704	0.1921271	-0.1035769
0.016312	0.01576	18.02323	17.87483	0.7247306	0.7850706	0.6925761	-0.09249444
0.047271	1.91E-05	47.19994	13.25403	0.0783559	0.2490635	0.3223658	0.07330236
0.001718	0.00338	24.71552	27.64988	0.6966646	0.7725235	0.6850597	-0.08746378
0.008632	0.01681	17.74341	20.63875	0.6970779	0.8749087	0.6884964	-0.1864124
0.000408	0.00039	34.11018	33.89442	0.8874779	0.8237492	0.8833593	0.05961005
0.009191	0.00503	22.98849	20.36648	0.1575441	0.0708481	0.1420701	0.07122204
0.027491	0.02878	15.40886	15.60805	0.9385504	0.8736874	0.7647633	-0.1089241
0.004604	0.01036	19.84669	23.36852	0.2245369	0.1366021	0.2330266	0.09642451
0.006219	0.00513	22.89932	22.06282	0.1699641	0.1084461	0.1641573	0.05571123
0.023139	0.00225	26.48358	16.3565	0.0602345	0.173707	0.1119479	-0.06175909
0.004265	0.00543	22.65429	23.70084	0.7077699	0.7595987	0.701048	-0.05855064
0.036025	0.0294	15.31623	14.43391	0.5902734	0.7053595	0.5984089	-0.1069506
4.95E-06	6.71E-07	61.73104	53.05232	0.2341475	0.0877599	0.2125383	0.1247784
0.009588	0.00956	20.19653	20.18252	0.6882648	0.8108434	0.686435	-0.1244084
0.002377	0.00026	35.89695	26.2389	0.825789	0.6673485	0.7582925	0.09094398
0.005398	0.00135	28.70744	22.67784	0.7517825	0.6639325	0.7365385	0.07260598
0.008979	0.00012	39.06273	20.46749	0.8781903	0.8082295	0.8628759	0.05464647
0.010565	0.01028	19.87842	19.76118	0.2355759	0.1488415	0.2273044	0.07846296
0.000456	0.00062	32.08215	33.40902	0.6866199	0.8476448	0.6815031	-0.1661418
0.019599	0.00456	23.41351	17.07765	0.8133929	0.6907173	0.6022113	-0.08850596
0.000633	0.00104	29.8301	31.98273	0.904326	0.9602711	0.9007495	-0.05952161
0.008883	0.00878	20.56604	20.51427	0.7935737	0.8944502	0.7974756	-0.09697462
0.00019	0.00034	34.65198	37.2171	0.7912201	0.9085125	0.8183428	-0.09016966
0.028644	9.44E-07	60.25148	15.42965	0.204743	0.70937	0.7969298	0.08755978
0.000611	7.80E-05	41.08088	32.13686	0.1428549	0.0794927	0.1346572	0.05516452
0.005656	0.00279	25.53807	22.4751	0.2674767	0.1945127	0.2641788	0.06966604
0.034691	0.02847	15.45541	14.59782	0.7324902	0.7862812	0.735216	-0.05106516
0.000188	0.00016	38.07631	37.26322	0.826378	0.894665	0.8353672	-0.05929776
0.000545	4.92E-07	63.08179	32.63581	0.5047601	0.7444288	0.634742	-0.1096867
0.02446	0.02873	15.41682	16.11537	0.0390664	0.2338632	0.4228739	0.1890106
0.024315	0.01344	18.71601	16.1413	0.796017	0.6257136	0.4887538	-0.1369599
0.04639	0.00357	24.47368	13.33575	0.8695467	0.7978473	0.7256411	-0.07220618
0.013896	6.04E-06	52.19114	18.5712	0.6698259	0.4089152	0.4745915	0.06567623
0.042747	0.02721	15.65316	13.69094	0.1972522	0.1123272	0.1858977	0.07357053
0.014862	0.01699	17.69929	18.27924	0.7468127	0.6670496	0.5714944	-0.09555524
0.005192	4.89E-05	43.10345	22.84662	0.8982443	0.7650659	0.8270851	0.06201921
5.94E-05	2.91E-05	45.36631	42.26359	0.1536516	0.0746152	0.1577777	0.08316247

0.001469	0.04911	13.08855	28.33059	0.5521991	0.4670872	0.3614978	-0.1055894
1.17E-05	5.25E-05	42.79733	49.31026	0.3337683	0.2388985	0.3257876	0.08688913
0.048798	0.0371	14.30581	13.116	0.8177848	0.7520494	0.8145419	0.06249246
0.035151	6.23E-06	52.0574	14.54068	0.4163901	0.7435084	0.6178122	-0.1256962
0.031753	0.00063	32.00306	14.98217	0.4776495	0.6566641	0.7275839	0.07091983
0.001157	0.00054	32.65417	29.36783	0.18779	0.0980103	0.1722669	0.07425661
0.013145	9.47E-05	40.23792	18.81228	0.7789474	0.6472698	0.7198107	0.07254089
0.006079	0.00441	23.55783	22.16147	0.0575912	0.1657133	0.0757561	-0.08995716
0.01434	0.00972	20.12308	18.43439	0.2149799	0.1122238	0.2066663	0.09444253
0.022547	0.00672	21.72442	16.4692	0.761043	0.6084628	0.7208535	0.1123907
0.013216	0.00901	20.45086	18.78909	0.5663542	0.6231981	0.567189	-0.05600915
0.000892	0.00151	28.20228	30.49427	0.6882629	0.7648296	0.684081	-0.0807486
0.023593	0.04263	13.70254	16.27221	0.7083734	0.7780519	0.7221148	-0.0559371
0.039823	0.00247	26.06575	13.99871	0.4481464	0.6045952	0.6753403	0.07074513
0.043847	0.02968	15.27607	13.58059	0.0598876	0.1250054	0.1792579	0.05425247
0.005186	0.00605	22.18254	22.85151	0.617727	0.5189352	0.6220968	0.1031616
0.014494	0.00124	29.08203	18.38804	0.267208	0.4040751	0.4919581	0.08788305
0.008779	7.66E-05	41.16031	20.56578	0.5005682	0.6618765	0.567028	-0.09484854
0.001197	0.00022	36.5248	29.21944	0.7782718	0.6545783	0.7561831	0.1016049
9.75E-06	0.00027	35.68068	50.10882	0.5838814	0.7203158	0.5231212	-0.1971946
0.000377	0.00013	38.8933	34.23749	0.1840671	0.0769783	0.1652792	0.08830095
0.004774	0.00468	23.29552	23.21152	0.8450246	0.904726	0.8509737	-0.05375228
0.046597	0.02102	16.77356	13.31647	0.3866024	0.5271182	0.630133	0.1030148
0.011878	0.02307	16.36892	19.25256	0.4004881	0.3216147	0.4071051	0.08549038
0.031061	0.02338	16.31236	15.07783	0.8641832	0.6815448	0.5130246	-0.1685202
0.012811	0.01162	19.34856	18.92417	0.126012	0.0666307	0.1197188	0.05308817
0.032685	0.02147	16.6818	14.85648	0.8522292	0.929199	0.8644043	-0.06479476
0.004769	0.00906	20.42738	23.21618	0.1982935	0.2892643	0.4021222	0.1128579
0.026002	0.00016	37.93254	15.84986	0.7748644	0.6574844	0.717142	0.05965754
0.00073	0.00014	38.45208	31.36758	0.1818011	0.1036791	0.1557492	0.05207018
0.015823	0.01288	18.8993	18.00708	0.2348587	0.0960693	0.2136673	0.117598
0.007222	0.00437	23.59989	21.41342	0.3578559	0.4445809	0.5252391	0.08065818
0.022854	0.02084	16.81186	16.4104	0.8865223	0.7634373	0.8712663	0.107829
4.63E-07	4.15E-07	63.81645	63.34258	0.4496543	0.6214861	0.4543057	-0.1671805
0.004559	0.00464	23.33651	23.41152	0.8631123	0.767443	0.8496609	0.0822179
0.005299	0.0016	27.96739	22.75807	0.8312209	0.7559386	0.8151783	0.05923967
0.044138	0.00472	23.2561	13.55188	0.88596	0.7259977	0.6542608	-0.07173697
0.017869	0.04902	13.09643	17.47902	0.8744766	0.817568	0.7306467	-0.08692131
0.013	0.01165	19.33672	18.86043	0.3895835	0.503422	0.3880662	-0.1153559
5.19E-05	0.00073	31.35828	42.85173	0.5965955	0.6643417	0.554072	-0.1102698
9.16E-05	8.24E-06	50.84242	40.379	0.2086606	0.1077216	0.2071958	0.09947414
0.025345	0.0153	18.15363	15.96112	0.8390885	0.7606265	0.8304287	0.06980217
0.036831	0.00218	26.61042	14.33786	0.8768587	0.720718	0.6380546	-0.08266335
0.000314	0.00014	38.68018	35.02975	0.8249799	0.9307916	0.8422413	-0.08855028
0.016987	0.01919	17.17021	17.69884	0.233692	0.3106437	0.4041024	0.09345872
0.027261	0.00069	31.59755	15.64456	0.7415447	0.6647227	0.5770948	-0.08762792
0.002582	0.01972	17.05167	25.88058	0.8157429	0.90043	0.7809933	-0.1194367
0.044826	0.03241	14.89379	13.48467	0.8771302	0.7945188	0.8675851	0.07306631
0.00593	0.00693	21.59127	22.26921	0.8952631	0.823705	0.8874216	0.06371659
0.000831	0.00229	26.39707	30.8041	0.5940657	0.6915845	0.5814976	-0.110087
0.04966	0.0008	30.98728	13.0399	0.8454821	0.7705401	0.681682	-0.08885808
0.023207	0.0059	22.28946	16.34374	0.8406314	0.7047811	0.6185353	-0.08624579
0.027595	0.00616	22.10462	15.59167	0.1284591	0.3959693	0.2169248	-0.1790444
0.010126	0.00012	39.1101	19.94565	0.6419531	0.4551442	0.3669857	-0.08815843

0.015886	0.00174	27.60138	17.98984	0.7886774	0.6626497	0.7483557	0.08570597
0.037206	0.027	15.68598	14.29382	0.2612929	0.18547	0.252491	0.067021
0.040899	0.01409	18.5122	13.88285	0.7110913	0.6180371	0.5390668	-0.07897028
0.004957	0.00259	25.86261	23.04751	0.6645332	0.7678831	0.6561077	-0.1117754
0.013146	0.01197	19.21807	18.81214	0.7122611	0.4097367	0.702837	0.2931003
0.028865	0.02184	16.60684	15.39635	0.3593344	0.1856117	0.3321462	0.1465345
0.007837	0.00726	21.39185	21.05835	0.1413369	0.0662263	0.1391071	0.07288083
0.014961	0.00014	38.44126	18.25051	0.0961461	0.5293601	0.658703	0.1293429
0.008005	0.00638	21.94985	20.96633	0.8448045	0.9137915	0.8500332	-0.06375827
0.024222	0.0093	20.31487	16.15787	0.8702523	0.7231756	0.823112	0.09993639
0.008078	0.01004	19.98471	20.92709	0.5160954	0.5706816	0.5096098	-0.06107179
0.023354	0.02032	16.92048	16.31642	0.8640821	0.9246444	0.8673337	-0.05731069
0.003646	9.62E-05	40.16916	24.38156	0.778519	0.6754389	0.7394994	0.06406046
0.003618	0.03738	14.27311	24.4156	0.6195924	0.6871157	0.5735089	-0.1136068
0.034077	0.03631	14.39948	14.67538	0.0222611	0.0819721	0.0214505	-0.06052162
0.000719	7.30E-07	61.36867	31.4346	0.1371401	0.0805418	0.1305446	0.05000282
0.016792	0.02294	16.39338	17.74892	0.4995906	0.6161701	0.4904087	-0.1257614
0.00254	0.0081	20.91249	25.95211	0.8323987	0.9031636	0.8021557	-0.1010079
0.018065	0.01689	17.72478	17.43167	0.1433956	0.0819348	0.1406927	0.05875792
0.005005	0.00046	33.41898	23.0057	0.7889237	0.6712307	0.6009841	-0.07024657
0.045435	0.00607	22.17132	13.42612	0.6372019	0.795391	0.7134948	-0.08189625
0.000351	0.00038	34.22784	34.54976	0.1069669	0.0449154	0.1071157	0.06220025
0.001253	0.00207	26.84105	29.02101	0.1664992	0.1068494	0.1700477	0.06319825
0.024964	0.04716	13.26389	16.02687	0.1574777	0.2188403	0.1400961	-0.0787442
0.005612	0.00614	22.11654	22.50904	0.9132293	0.7972816	0.9091678	0.1118862
0.009136	0.01053	19.77524	20.39248	0.9071223	0.844877	0.743432	-0.101445
0.007099	0.00905	20.43565	21.48825	0.7429805	0.8411646	0.7440473	-0.09711736
0.01402	0.01185	19.26162	18.53247	0.1805711	0.1205468	0.1750714	0.05452459
0.000563	0.00025	35.95715	32.49275	0.4180141	0.553836	0.4281583	-0.1256777
0.003271	0.02422	16.15829	24.85354	0.5112042	0.574838	0.4690899	-0.1057482
0.000679	0.00015	38.29	31.68274	0.159667	0.0688034	0.1496895	0.08088613
0.038838	0.03861	14.13326	14.10741	0.9701089	0.8332801	0.7064276	-0.1268525
0.010677	0.01875	17.2705	19.71557	0.5277064	0.6679831	0.5013021	-0.166681
0.045394	0.02294	16.39344	13.43004	0.9236562	0.8383625	0.9066826	0.06832013
0.004677	0.00706	21.51322	23.29991	0.665381	0.7509201	0.6532485	-0.09767161
0.039397	0.03589	14.45026	14.0454	0.8547117	0.7257805	0.8487121	0.1229315
3.91E-07	9.21E-07	60.35797	64.08286	0.5921186	0.7956797	0.6034745	-0.1922052
0.02409	1.46E-05	48.36003	16.18169	0.1630547	0.5372831	0.6089445	0.07166146
0.03257	0.02294	16.39478	14.87186	0.6910374	0.53907	0.4002349	-0.138835
1.13E-05	1.53E-05	48.14443	49.45987	0.6184638	0.7004979	0.6089276	-0.0915703
0.044829	0.02187	16.60219	13.48441	0.837946	0.7196401	0.8098896	0.0902494
0.045027	0.04864	13.12962	13.4653	0.7540579	0.6481264	0.7547798	0.1066534
0.003631	0.02462	16.08788	24.40025	0.5896044	0.6396448	0.5646351	-0.07500973
0.02213	0.01724	17.63356	16.5502	0.8061531	0.7430787	0.8038859	0.06080717
0.002078	0.00066	31.78337	26.82446	0.7251939	0.4932945	0.6553728	0.1620782
0.00016	6.62E-08	71.79055	37.97187	0.1116579	0.5677723	0.7027088	0.1349366
0.007523	0.00175	27.57368	21.23587	0.8563108	0.6598817	0.5215294	-0.1383522
0.04347	0.00487	23.12119	13.61807	0.84417	0.7567897	0.8079895	0.05119978
0.006793	0.00041	33.86422	21.67937	0.6730993	0.761772	0.7104858	-0.05128625
0.010183	0.02421	16.15934	19.92136	0.8791606	0.804263	0.8963237	0.09206071
0.013812	0.00024	36.15585	18.59749	0.8666864	0.7723207	0.674738	-0.09758265
0.000675	0.00065	31.89142	31.70448	0.3623864	0.1814095	0.3424206	0.1610111
0.044982	0.04601	13.3718	13.46962	0.2189537	0.3528779	0.2181532	-0.1347247
0.036989	0.0402	13.9579	14.31923	0.1422416	0.0922019	0.1449768	0.05277492



0.047326	5.55E-05	42.55983	13.24899	0.2167446	0.453844	0.5147161	0.06087206
0.003616	0.00079	31.03416	24.41778	0.9267409	0.8057355	0.6776529	-0.1280826
0.024709	0.01285	18.9111	16.07147	0.2058712	0.1457606	0.1981264	0.05236581
0.002694	0.00671	21.73301	25.69665	0.148551	0.0694026	0.1475373	0.07813467
0.005662	0.01442	18.40924	22.47001	0.4407006	0.5084863	0.4286753	-0.07981104
0.000835	0.00029	35.42162	30.7819	0.341076	0.1140566	0.2641137	0.1500571
0.000677	0.00162	27.90788	31.69202	0.6977413	0.8156786	0.8879833	0.07230464
0.042053	0.03688	14.33156	13.76207	0.9175461	0.8428038	0.9146714	0.07186758
0.000654	0.00071	31.45731	31.84342	0.8448662	0.9135557	0.8482139	-0.0653418
0.001621	0.00147	28.32185	27.90159	0.6781312	0.7624479	0.6251619	-0.137286
0.027528	0.00049	33.07466	15.60218	0.8698764	0.7786736	0.8293605	0.05068687
0.038619	0.00432	23.64607	14.13196	0.0635507	0.2217012	0.3036946	0.08199332
0.03765	0.02635	15.79191	14.24229	0.1690122	0.2845636	0.3876097	0.1030461
0.003636	6.36E-06	51.96605	24.39395	0.5183386	0.6363716	0.5837708	-0.0526008
0.026499	0.03783	14.22134	15.76764	0.4820382	0.5896958	0.464933	-0.1247627
0.042667	0.00197	27.05944	13.69906	0.0787425	0.3738843	0.4669099	0.09302564
0.00922	0.00011	39.73911	20.35279	0.7755904	0.574396	0.4830461	-0.09134977
0.002654	0.00179	27.46248	25.76121	0.2416117	0.0953613	0.2167095	0.1213482
0.003441	0.00307	25.12737	24.63283	0.521345	0.7631338	0.53363	-0.2295038
0.044564	0.00562	22.49914	13.51015	0.1268514	0.2197227	0.2863229	0.06660024
0.017394	0.00091	30.43149	17.5959	0.8809533	0.7361781	0.6116396	-0.1245386
0.042151	0.03004	15.22279	13.75189	0.7552114	0.6928074	0.6253439	-0.06746357
0.035293	0.03822	14.17654	14.52311	0.9710654	0.8326002	0.7003292	-0.1322709
0.001901	0.00018	37.37156	27.21	0.8345086	0.9040855	0.8540758	-0.05000967
0.021503	0.00066	31.79276	16.67511	0.9025218	0.7795136	0.8342055	0.05469191
0.00464	0.0022	26.57336	23.33507	0.7414102	0.6762043	0.7335994	0.05739504
0.028533	0.03337	14.76604	15.44654	0.7683408	0.6317074	0.7712758	0.1395684
0.020845	0.01046	19.80671	16.80995	0.200768	0.1184587	0.1847454	0.06628674
0.012496	5.97E-06	52.23904	19.03219	0.0822126	0.428481	0.5417175	0.1132365
0.030884	2.64E-07	65.78021	15.10264	0.7396152	0.5023409	0.4507656	-0.05157529
0.020304	0.00064	31.91258	16.92427	0.8444754	0.6887637	0.769511	0.0807473
8.72E-05	8.00E-07	60.97137	40.59428	0.5993562	0.8535929	0.7544258	-0.09916705
0.000981	2.74E-05	45.62444	30.08464	0.7144275	0.8564556	0.7592723	-0.09718331
0.042241	0.017	17.69502	13.74269	0.2033611	0.288539	0.3886144	0.1000754
0.008987	0.00665	21.77194	20.46399	0.1243124	0.0531123	0.1155011	0.06238889
0.000518	3.51E-05	44.54258	32.85693	0.2002034	0.1119347	0.1687223	0.0567876
0.013122	0.03204	14.94361	18.82009	0.8972009	0.7371725	0.5550114	-0.1821611
0.000427	1.38E-06	58.61022	33.69776	0.2615075	0.150823	0.2527182	0.1018951
0.025189	0.01121	19.50486	15.98781	0.4760148	0.3934533	0.4667452	0.07329189
0.029439	0.02685	15.7102	15.31079	0.8228654	0.693935	0.81581	0.1218751
0.020102	2.24E-05	46.50591	16.96752	0.2990746	0.6298038	0.5436715	-0.0861323
0.005141	0.00121	29.18802	22.88926	0.2539862	0.1221427	0.2259361	0.1037935
0.049546	0.01883	17.25085	13.04991	0.7661858	0.6984873	0.6457165	-0.05277082
0.038064	0.03709	14.30784	14.19488	0.7129657	0.6557585	0.7103006	0.05454209
3.68E-06	2.05E-06	56.87959	54.33928	0.6747831	0.8243745	0.6856018	-0.1387727
0.009639	0.00097	30.1161	20.15966	0.1533702	0.0866563	0.1423225	0.05566621
0.028107	0.0397	14.01241	15.51186	0.0664876	0.1579415	0.0540571	-0.1038844
0.003082	0.00302	25.19905	25.11231	0.8226539	0.7337648	0.8140479	0.08028308
0.040968	0.01314	18.81555	13.87557	0.0769186	0.1571946	0.2350381	0.07784352
0.032338	0.00718	21.43852	14.90292	0.9124666	0.6915035	0.5751367	-0.1163668
0.027351	1.92E-05	47.16861	15.6302	0.6702473	0.424049	0.4742231	0.05017404
0.009168	0.00021	36.87306	20.3774	0.8691053	0.6414962	0.7414873	0.099991
0.029603	0.00042	33.77693	15.28662	0.1752031	0.0952782	0.1788025	0.08352433
8.81E-05	1.12E-05	49.49303	40.54897	0.152102	0.0775008	0.1373075	0.05980667

0.029657	0.00356	24.48223	15.27866	0.849504	0.6396152	0.5433846	-0.09623061
0.004537	0.00049	33.11617	23.4319	0.2911984	0.1931414	0.255878	0.06273662
0.03593	0.00289	25.387	14.44549	0.1461491	0.4163583	0.5245571	0.1081988
0.021027	0.01461	18.35245	16.77214	0.8474211	0.7669842	0.6904859	-0.07649828
0.011042	2.97E-05	45.26713	19.56961	0.7289844	0.4095849	0.5324033	0.1228184
0.001897	0.00033	34.80581	27.2196	0.1051979	0.0357827	0.0908902	0.05510749
0.012647	0.00863	20.63946	18.98005	0.7824338	0.8735442	0.7959602	-0.07758396
0.029633	0.01851	17.32545	15.28226	0.7535527	0.8229296	0.7649381	-0.05799157
0.03006	0.01457	18.36551	15.22006	0.8299263	0.7437729	0.8168829	0.07310998
0.000257	2.90E-05	45.37681	35.89657	0.5842323	0.6561873	0.5871907	-0.06899656
0.033505	1.56E-06	58.06389	14.74887	0.0389581	0.4113902	0.3447811	-0.06660911
0.019384	0.00036	34.46041	17.12565	0.6915813	0.8932906	0.8197209	-0.0735696
0.024159	0.00151	28.19928	16.16919	0.8484839	0.7470402	0.798902	0.05186173
0.007928	0.00539	22.68235	21.00823	0.8644723	0.7534107	0.8590917	0.105681
0.003583	5.04E-05	42.97568	24.45801	0.5458114	0.6604254	0.7362697	0.07584432
0.02943	0.00682	21.66208	15.31205	0.0931665	0.4112284	0.6032604	0.192032
0.012506	0.0005	33.03289	19.02894	0.9073668	0.9681932	0.8887714	-0.07942186
0.038396	9.89E-05	40.04923	14.15719	0.3952922	0.6120964	0.6685678	0.05647133
0.009915	0.00041	33.84639	20.03686	0.7766433	0.5953653	0.5037124	-0.09165289
0.047431	0.0046	23.37354	13.23935	0.7591466	0.5628761	0.4646296	-0.09824655
0.008897	0.00654	21.84231	20.50757	0.3731622	0.2516712	0.357713	0.1060418
0.04686	0.01087	19.63619	13.292	0.4935335	0.6724945	0.545183	-0.1273115
0.000809	1.41E-06	58.50085	30.92316	0.6466165	0.7603725	0.6866735	-0.07369899
0.007705	0.00084	30.75319	21.13235	0.2010514	0.1164427	0.1737019	0.05725914
0.035171	0.00258	25.88328	14.53813	0.1050691	0.4991027	0.6574829	0.1583802
0.006432	0.00391	24.08372	21.91631	0.172811	0.0823805	0.1481016	0.06572101
0.01528	0.00011	39.6022	18.15866	0.7164485	0.902163	0.8105972	-0.09156581
0.002624	0.01769	17.52276	25.81053	0.860891	0.9118585	0.8222274	-0.08963111
0.0437	0.00044	33.60807	13.5952	0.8990243	0.7933998	0.7036021	-0.08979764
0.049469	5.28E-06	52.77499	13.05666	0.1189864	0.461893	0.5278827	0.06598977
0.006518	2.40E-05	46.20348	21.85914	0.8955584	0.7204884	0.7918725	0.07138408
0.044232	0.00722	21.41396	13.54262	0.3988544	0.7353165	0.4451222	-0.2901943
0.031785	0.02531	15.96697	14.9778	0.9045104	0.8361804	0.9026214	0.06644094
0.001204	0.00937	20.28267	29.19229	0.8479807	0.746465	0.620716	-0.125749
0.016177	0.00041	33.84854	17.91111	0.1352152	0.0544608	0.1164774	0.0620166
0.004628	0.00044	33.5168	23.3459	0.8171621	0.8995906	0.8399297	-0.05966081
0.049403	0.0372	14.29446	13.06247	0.7968426	0.6987904	0.6097496	-0.08904087
0.040429	0.01098	19.59566	13.9331	0.2012631	0.2775014	0.2246406	-0.05286079
0.003567	0.00088	30.55697	24.4771	0.2568251	0.1644115	0.2301365	0.06572504
0.016303	0.00134	28.72979	17.87724	0.9068687	0.6345	0.4652825	-0.1692175
0.046637	0.01159	19.36037	13.31273	0.9085556	0.8259975	0.8778459	0.05184838
0.014543	0.0012	29.22613	18.37352	0.1647736	0.2395249	0.3357358	0.09621087
0.002059	8.92E-05	40.49745	26.86342	0.8632693	0.7139153	0.6373543	-0.07656104
0.013832	0.0091	20.41181	18.5911	0.7832299	0.668139	0.7724406	0.1043016
0.000483	0.00459	23.38026	33.16336	0.8258343	0.7606567	0.8127568	0.05210017
0.034942	0.03477	14.58782	14.56653	0.1866975	0.1176323	0.1902202	0.07258791
0.010548	0.0047	23.27633	19.76816	0.0863481	0.3284387	0.5115351	0.1830964
0.027878	0.00618	22.09215	15.54734	0.8560729	0.7154959	0.6146195	-0.1008764
0.019954	0.00941	20.26319	16.99963	0.467102	0.304018	0.439346	0.1353281
0.007353	0.0118	19.28127	21.3351	0.8858123	0.7672421	0.6499183	-0.1173238
0.012444	0.00655	21.83851	19.05029	0.683005	0.746452	0.6901068	-0.05634517
0.039059	0.01468	18.3329	14.08278	0.8762426	0.8042381	0.8592412	0.05500302
0.012114	0.00435	23.61472	19.16716	0.7746982	0.6410575	0.5272871	-0.1137704
0.019518	0.00077	31.10817	17.0956	0.784512	0.5665511	0.4688701	-0.09768101

0.003699	0.00121	29.17659	24.31909	0.3091441	0.5114802	0.6262349	0.1147548
0.03502	0.0042	23.76409	14.55686	0.6841243	0.5623893	0.640552	0.0781628
0.00304	0.01017	19.9287	25.17158	0.5685539	0.7102391	0.5179751	-0.1922641
8.59E-06	4.88E-05	43.11305	50.66152	0.7444942	0.8356405	0.7239023	-0.1117382
0.000179	0.00624	22.04847	37.46066	0.1687349	0.1026349	0.2204748	0.11784
0.01786	0.0188	17.25947	17.48107	0.7941635	0.7245581	0.7967029	0.07214485
0.015972	0.01536	18.13686	17.96641	0.6182658	0.4784544	0.6141713	0.1357169
0.040589	0.02018	16.95141	13.9159	0.4813409	0.3906124	0.3173279	-0.07328445
0.014205	0.00072	31.42459	18.47562	0.9115267	0.8534853	0.7696725	-0.08381283
0.038487	0.00013	38.94975	14.14689	0.7819597	0.5115992	0.5724113	0.06081207
0.000242	7.89E-05	41.03128	36.16344	0.8130753	0.9060642	0.8328808	-0.07318331
0.029527	0.00084	30.75962	15.29781	0.885881	0.8098512	0.7504141	-0.05943708
0.000698	4.23E-05	43.74157	31.55864	0.1504284	0.0698719	0.1212686	0.05139673
7.87E-05	0.00022	36.63676	41.03875	0.2203751	0.0984702	0.2295647	0.1310945
0.01797	0.00423	23.7353	17.45461	0.0930959	0.1476433	0.2368717	0.08922838
0.019668	0.0409	13.88247	17.06231	0.8355486	0.909452	0.8240471	-0.08540495
0.041548	0.02872	15.4187	13.81448	0.2943903	0.4085954	0.3027668	-0.1058286
0.020895	0.0005	32.98702	16.79948	0.2363926	0.178489	0.2406403	0.06215127
0.003352	0.01341	18.72703	24.74647	0.4221178	0.4962941	0.3990945	-0.09719957
0.007186	0.00559	22.52568	21.43542	0.8864897	0.8070735	0.8840376	0.076964
0.000861	0.00125	29.04058	30.65003	0.5645353	0.7840011	0.5647742	-0.2192269
0.001203	0.00203	26.93427	29.19679	0.5707617	0.6967796	0.5931043	-0.1036753
1.45E-05	0.00015	38.21646	48.37631	0.637692	0.7114968	0.599596	-0.1119007
0.036011	0.02417	16.16709	14.43564	0.8369765	0.7614415	0.6728865	-0.08855508
0.039355	0.00953	20.20862	14.04997	0.0658506	0.1979863	0.1073604	-0.09062595
1.56E-06	4.29E-05	43.67142	58.06512	0.6076368	0.7184402	0.5789199	-0.1395203
0.028351	0.03316	14.7945	15.47435	0.8672416	0.9383851	0.8576046	-0.08078048
0.001101	0.00019	37.17288	29.5839	0.1486377	0.0653747	0.1276136	0.06223898
0.022709	0.00952	20.21501	16.43801	0.883936	0.638031	0.4726636	-0.1653674
0.01381	7.68E-05	41.14389	18.59795	0.7995102	0.6084452	0.6964436	0.08799843
0.016583	0.0306	15.14286	17.80335	0.8829663	0.8302307	0.8925567	0.06232602
0.048108	0.00391	24.08024	13.17785	0.4334613	0.3043623	0.3738779	0.06951568
0.032162	0.03367	14.72736	14.92662	0.6784804	0.8057004	0.6768067	-0.1288937
0.018691	0.02472	16.06913	17.28364	0.3255112	0.4137874	0.4848467	0.07105935
0.048424	0.01271	18.95741	13.14938	0.8195258	0.7262221	0.6473764	-0.07884572
0.024741	0.02056	16.8691	16.06584	0.6286442	0.6958569	0.631666	-0.06419087
0.04954	0.00448	23.48685	13.05045	0.5148582	0.6755634	0.5972114	-0.07835204
0.015276	0.0175	17.57048	18.16003	0.7298289	0.8338201	0.7326418	-0.1011783
0.000119	6.23E-05	42.05661	39.25378	0.7568929	0.9290711	0.7835552	-0.1455159
0.009432	0.01875	17.26924	20.25384	0.5032144	0.4507744	0.5144718	0.06369744
0.001295	0.00241	26.18332	28.87614	0.7364536	0.8147814	0.7190843	-0.09569712
0.038965	0.00296	25.28009	14.0933	0.8575498	0.733143	0.7921073	0.05896437
0.018426	0.00617	22.0998	17.34565	0.8967037	0.8230869	0.8799818	0.05689486
3.40E-05	3.61E-06	54.4196	44.68802	0.5882607	0.7446538	0.5838478	-0.160806
0.00841	0.00202	26.94084	20.75184	0.8149777	0.9112002	0.8450192	-0.06618094
0.034243	0.00656	21.82882	14.65434	0.7858109	0.4998531	0.6522123	0.1523591
0.002939	0.01279	18.93006	25.31835	0.8064464	0.7202549	0.8414272	0.1211723
0.030576	0.03908	14.08016	15.14613	0.8040606	0.6579751	0.8158597	0.1578847
0.004874	0.01984	17.02414	23.12094	0.8130964	0.7069176	0.8182457	0.1113281
0.025591	0.00411	23.86551	15.91916	0.704836	0.8376499	0.7544628	-0.08318708
0.000147	1.35E-05	48.68123	38.31532	0.5886612	0.6603222	0.5725183	-0.08780395
0.007279	0.00882	20.54542	21.37933	0.0882247	0.1734378	0.3353319	0.1618941
0.000204	0.00015	38.19418	36.89361	0.8877771	0.9622509	0.8990824	-0.06316858
0.025817	0.01604	17.94862	15.88089	0.3209298	0.2284861	0.3025266	0.07404047

0.007667	0.00353	24.51855	21.15382	0.9150892	0.840861	0.902333	0.0614719
0.039691	0.02901	15.37437	14.01312	0.4708078	0.5776171	0.4840918	-0.09352534
0.004135	0.00841	20.75099	23.83489	0.1164192	0.0638303	0.1226028	0.05877256
0.027418	3.33E-05	44.7726	15.6196	0.7001961	0.4753029	0.5434991	0.06819616
0.033498	0.01465	18.34191	14.74986	0.2955154	0.3899373	0.3106022	-0.07933516
0.018739	0.03367	14.72771	17.27252	0.8522686	0.7876778	0.8622504	0.07457255
0.010701	0.01431	18.44315	19.70578	0.5613549	0.6676804	0.560823	-0.1068574
0.017098	0.00083	30.79054	17.67059	0.8364674	0.6669896	0.7571534	0.09016381
0.013926	0.02885	15.39795	18.56179	0.0687939	0.2183045	0.3968399	0.1785354
0.023354	0.00482	23.17181	16.31638	0.868207	0.7255931	0.8275958	0.1020028
0.000117	9.86E-05	40.06115	39.33558	0.6858829	0.7657486	0.6930035	-0.07274505
0.034448	0.01771	17.51854	14.62835	0.8322151	0.6705562	0.7937926	0.1232364
0.049684	0.03442	14.63183	13.03785	0.0206286	0.0973843	0.0300523	-0.06733198
0.014917	0.00244	26.1188	18.26322	0.6592761	0.7094229	0.6448956	-0.0645274
0.044139	0.00157	28.03892	13.55174	0.5667502	0.412052	0.3567818	-0.05527028
0.001586	0.00086	30.67711	27.99796	0.6179938	0.6897949	0.6262522	-0.0635427
0.021081	3.12E-06	55.06511	16.76114	0.8165388	0.6095811	0.5032626	-0.1063185
0.015328	0.02081	16.81672	18.14528	0.6556693	0.7348958	0.6554939	-0.07940192
0.000953	0.00035	34.61614	30.20765	0.6749428	0.843725	0.7567543	-0.0869707
0.002546	0.00186	27.31469	25.9421	0.7552518	0.8776111	0.7463185	-0.1312927
0.011991	0.00224	26.48784	19.21131	0.8450881	0.9104875	0.8554252	-0.05506238
0.02651	0.01374	18.62073	15.76583	0.7800039	0.6432088	0.750033	0.1068242
0.029903	0.00016	38.03387	15.24291	0.7905359	0.5252518	0.411442	-0.1138098
0.000987	0.00204	26.90593	30.05534	0.485437	0.5723193	0.4867362	-0.08558309
0.000758	0.00389	24.10265	31.20089	0.7867662	0.8526458	0.764612	-0.08803371
0.019234	8.24E-05	40.8429	17.15922	0.8606431	0.9746607	0.9206716	-0.05398911
0.00502	0.00087	30.6055	22.99296	0.111411	0.0513207	0.1108658	0.05954514
0.010341	0.01117	19.52062	19.85432	0.8204544	0.7353668	0.6286057	-0.1067611
0.012848	0.00263	25.80708	18.91163	0.058066	0.2474802	0.342065	0.09458488
0.00258	0.00041	33.89769	25.88399	0.2507109	0.1123637	0.2077504	0.0953867
0.044104	0.00053	32.78424	13.55523	0.1545255	0.3433441	0.4116781	0.06833407
0.041098	0.00166	27.80728	13.86182	0.162178	0.4534115	0.3268741	-0.1265374
0.027946	0.025	16.01998	15.53688	0.7759886	0.6360383	0.5274447	-0.1085936
0.009805	0.03605	14.43074	20.08568	0.9094394	0.8370764	0.6632662	-0.1738103
0.002588	0.01108	19.5561	25.87059	0.6575309	0.7366136	0.6326101	-0.1040034
0.001607	0.01719	17.64799	27.94114	0.3020305	0.2172506	0.3462102	0.1289596
0.002036	0.00383	24.16724	26.91309	0.1047512	0.194785	0.2950714	0.1002864
0.000137	6.77E-06	51.69142	38.63839	0.7016799	0.831682	0.7377448	-0.09393722
0.047271	0.02171	16.63259	13.25405	0.4585039	0.5342571	0.4794285	-0.05482858
0.023122	0.01805	17.43588	16.35981	0.5631596	0.6877284	0.5683289	-0.1193995
0.029464	0.01627	17.88552	15.30712	0.8104855	0.7331733	0.8012804	0.06810722
0.028162	0.02049	16.88453	15.50343	0.1777176	0.3696131	0.2485713	-0.1210418
0.038373	0.00225	26.47237	14.15977	0.6749781	0.4824409	0.3897743	-0.09266661
0.008053	2.24E-05	46.48893	20.94063	0.1619219	0.3347154	0.4126461	0.07793073
0.003959	0.00362	24.4116	24.02421	0.7775433	0.8599352	0.7821038	-0.07783144
0.012899	0.0036	24.43456	18.89428	0.5456796	0.4361778	0.509552	0.07337415
0.007881	0.00267	25.73555	21.03436	0.5038574	0.621556	0.5276866	-0.09386945
0.001186	1.83E-05	47.38063	29.26	0.7233459	0.3936278	0.5360929	0.142465
0.048685	0.04637	13.33802	13.12602	0.8790621	0.6952317	0.5251206	-0.1701111
0.025467	0.01595	17.97126	15.94019	0.4494714	0.359017	0.4375171	0.07850009
0.038376	0.03335	14.76849	14.15937	0.8617789	0.8047084	0.7283593	-0.07634901
0.007093	0.01215	19.15312	21.49197	0.8603762	0.9111598	0.8424845	-0.06867529
0.001667	0.00203	26.91569	27.77984	0.796998	0.9325691	0.8103669	-0.1222023
0.045886	0.00192	27.16085	13.38319	0.2824706	0.5480375	0.6551	0.1070626

0.017667	0.00064	31.93109	17.52828	0.0714985	0.4326841	0.5854825	0.1527983
0.003896	0.00637	21.95926	24.09425	0.6754571	0.7264444	0.6694347	-0.05700965
0.007566	3.89E-05	44.10247	21.21127	0.7712168	0.5689436	0.6525505	0.08360694
0.001532	0.00487	23.12293	28.14688	0.686653	0.7383401	0.6767987	-0.06154136
0.000481	0.00228	26.41913	33.17481	0.5884598	0.6621432	0.5760077	-0.08613556
0.038614	4.69E-05	43.28559	14.13259	0.5199573	0.8125017	0.8726797	0.06017808
0.026663	0.00012	39.25413	15.74083	0.8709965	0.6353438	0.7145967	0.07925284
0.009284	0.00647	21.88879	20.32284	0.7853053	0.872198	0.7974592	-0.07473889
0.024346	0.0001	39.8262	16.13581	0.8531796	0.7229909	0.6221731	-0.1008177
0.025768	0.00508	22.9423	15.88912	0.613015	0.741973	0.6501493	-0.09182367
6.15E-05	8.06E-05	40.93396	42.11125	0.6762614	0.8331659	0.7038892	-0.1292767
0.019609	0.00267	25.7348	17.07548	0.0764374	0.158827	0.2487467	0.08991967
0.019961	0.00283	25.48053	16.99813	0.7916132	0.6888073	0.7476756	0.0588683
0.002028	0.00193	27.13773	26.93014	0.4705285	0.6330815	0.4671132	-0.1659683
8.53E-05	2.05E-05	46.8927	40.69006	0.1514194	0.0410828	0.12267	0.08158722
0.006459	0.00449	23.48181	21.89851	0.6472762	0.7042475	0.6322082	-0.07203938
0.000206	0.01864	17.29438	36.87123	0.9002967	0.9552848	0.8728498	-0.08243507
0.000214	0.00049	33.07103	36.69199	0.5306748	0.6580043	0.5406682	-0.1173361
0.009009	0.0014	28.52955	20.45346	0.3670618	0.608443	0.4855566	-0.1228864
0.033203	8.52E-08	70.6954	14.78819	0.2368921	0.6634835	0.7146584	0.05117492
0.020727	0.01512	18.20397	16.8347	0.890135	0.7486285	0.6352447	-0.1133838
0.018509	0.04004	13.97554	17.32617	0.5120097	0.5943435	0.4979935	-0.09635008
0.040749	0.02865	15.42804	13.89886	0.9080206	0.8114458	0.7236157	-0.08783005
0.019965	0.03032	15.18242	16.99721	0.5325686	0.4601049	0.5389317	0.0788268
0.004713	0.01667	17.78174	23.26672	0.1670441	0.1118201	0.1818637	0.07004365
0.001905	0.00023	36.32104	27.2006	0.8593754	0.9327721	0.8799838	-0.05278833
0.000207	0.00339	24.70407	36.84582	0.8376739	0.9226711	0.7693508	-0.1533203
0.007965	0.00165	27.81412	20.98821	0.8387324	0.6554272	0.7800008	0.1245736
0.000973	0.00056	32.49737	30.1192	0.1511557	0.075235	0.1375408	0.06230585
0.039967	0.04148	13.82118	13.98296	0.9112981	0.9613976	0.892427	-0.06897058
0.034207	0.01897	17.21957	14.65885	0.836342	0.7390956	0.8213888	0.08229329
0.027672	0.02889	15.39325	15.57957	0.5505872	0.6816816	0.5564251	-0.1252565
0.015985	1.96E-05	47.08084	17.96278	0.826088	0.6519186	0.5725856	-0.079333
0.017961	0.02863	15.4316	17.45658	0.8579146	0.7810895	0.8671188	0.08602931
0.00084	0.00037	34.32854	30.75871	0.7543846	0.8648327	0.7632562	-0.1015765
0.003447	0.00414	23.82878	24.62593	0.6319124	0.7536467	0.6424306	-0.1112161
0.01989	0.00408	23.89777	17.01365	0.8816755	0.8029152	0.720764	-0.08215124
0.000748	0.00239	26.21768	31.26166	0.7000335	0.7930912	0.6873195	-0.1057718
0.033811	0.01727	17.62745	14.70941	0.1866345	0.118717	0.173573	0.05485598
0.03114	0.00021	36.8064	15.06675	0.8048139	0.9312696	0.8768535	-0.05441618
0.003214	0.00305	25.16363	24.92971	0.5718411	0.4130403	0.2717966	-0.1412436
0.046722	0.03811	14.18985	13.30478	0.5816662	0.7547352	0.5998681	-0.1548672
9.85E-06	8.90E-05	40.50773	50.06618	0.201157	0.0851254	0.1781927	0.09306725
0.028023	0.00019	37.21473	15.52489	0.7576407	0.5362157	0.6156747	0.07945908
0.035903	0.0026	25.85628	14.44869	0.4852082	0.6832263	0.5731524	-0.1100739
0.000723	3.04E-05	45.17363	31.4111	0.0931713	0.0296667	0.0809133	0.05124658
0.01052	0.01625	17.89249	19.77998	0.0626341	0.1641508	0.3382909	0.1741401
0.018544	0.00603	22.19355	17.31799	0.8446741	0.7225558	0.8041838	0.08162804
0.027527	0.03469	14.59744	15.60235	0.4411386	0.5773513	0.4316894	-0.1456619
0.001872	0.00014	38.41462	27.27794	0.3285687	0.6596022	0.5109637	-0.1486386
0.008047	0.01422	18.46981	20.94352	0.7852094	0.8873729	0.772804	-0.1145688
0.03096	0.00024	36.21867	15.09195	0.1953877	0.2938973	0.3710842	0.07718693
0.022593	0.00324	24.89133	16.46033	0.7093629	0.8268268	0.7447339	-0.08209295
0.040958	0.03252	14.87797	13.87657	0.8674288	0.7574427	0.8581996	0.1007569

0.048382	0.01038	19.83969	13.15312	0.7956735	0.6821919	0.752642	0.07045015
0.019601	0.0204	16.90476	17.0772	0.8857741	0.7885877	0.8873021	0.09871431
0.011858	0.02206	16.56377	19.26003	0.8616824	0.7691229	0.632364	-0.1367588
0.003806	0.0003	35.22215	24.19486	0.8870292	0.8095616	0.8822805	0.07271891
0.006084	0.00028	35.59441	22.15824	0.2095244	0.3047221	0.3572013	0.05247914
0.002827	0.0148	18.29798	25.48733	0.5674918	0.515207	0.4276648	-0.08754212
0.023049	0.00564	22.49036	16.37353	0.798255	0.6328041	0.5020329	-0.1307712
0.030954	0.00242	26.15841	15.09284	0.0570254	0.1689323	0.2253628	0.05643043
0.030406	0.03242	14.89163	15.17036	0.1468347	0.088504	0.146265	0.05776098
0.01781	0.0053	22.75815	17.49348	0.155958	0.2074393	0.2986127	0.09117339
0.010315	0.00106	29.7476	19.86524	0.0734229	0.3269533	0.4456154	0.1186621
0.01151	0.01051	19.78371	19.38925	0.565141	0.6796542	0.5682541	-0.1114002
0.007376	0.01019	19.91812	21.3215	0.7287531	0.8002135	0.732387	-0.06782643
0.024871	0.03044	15.16506	16.0431	0.6734253	0.7315977	0.6707489	-0.06084881
2.24E-06	7.90E-05	41.02129	56.49316	0.6976039	0.8079882	0.7001161	-0.1078721
0.021841	0.02259	16.46091	16.60729	0.6235608	0.6954945	0.6233454	-0.07214908
0.003297	0.0004	34.02694	24.81833	0.8554463	0.6917835	0.5990683	-0.09271526
0.01132	0.00028	35.4648	19.46172	0.859282	0.7514374	0.6905882	-0.06084923
0.01249	3.64E-05	44.3923	19.03428	0.1113977	0.3393534	0.4500954	0.110742
0.005316	0.01108	19.55322	22.74378	0.0783745	0.1474307	0.0710026	-0.0764281
0.042531	0.01266	18.97421	13.71292	0.5225006	0.6977231	0.7834852	0.08576216
0.019433	0.04599	13.3736	17.11471	0.6064051	0.545615	0.626161	0.08054598
0.004651	1.49E-06	58.25497	23.32409	0.7705316	0.5847681	0.518442	-0.06632613
0.022502	0.00233	26.32781	16.47773	0.8989263	0.7520914	0.8193595	0.06726809
0.012374	0.01461	18.3548	19.07501	0.5997217	0.7471335	0.5835729	-0.1635606
0.010909	0.00589	22.29594	19.62215	0.4645742	0.5534902	0.467796	-0.08569416
0.023817	0.01868	17.28516	16.23121	0.7416965	0.7985848	0.7461607	-0.05242409
0.013711	0.01721	17.64256	18.62934	0.770709	0.872586	0.7578061	-0.1147799
0.021457	0.02564	15.91012	16.68436	0.5973136	0.6504189	0.5949042	-0.05551463
0.022809	0.00686	21.63789	16.41899	0.7288091	0.6229106	0.5511817	-0.0717288
0.008684	0.00041	33.8289	20.61266	0.8716387	0.7629389	0.697307	-0.06563185
0.000107	0.00016	38.01272	39.68781	0.6700552	0.7427664	0.6201037	-0.1226628
0.011245	0.00055	32.59097	19.49036	0.4281092	0.5631429	0.6391715	0.0760286
0.008299	0.00161	27.9426	20.80995	0.6924169	0.760738	0.6969509	-0.06378713
0.000258	5.78E-06	52.38162	35.87806	0.1598243	0.0878408	0.1512095	0.06336873
0.004272	0.00285	25.44729	23.69369	0.1190879	0.2797621	0.4263589	0.1465968
0.000546	0.00174	27.58508	32.62439	0.7975512	0.7360367	0.7927011	0.05666442
0.002434	0.0002	37.01921	26.13667	0.8901279	0.7058425	0.8038436	0.09800113
0.048304	0.02579	15.88628	13.16021	0.8219401	0.6961038	0.5929832	-0.1031207
0.049762	0.02787	15.54914	13.031	0.7460784	0.8441629	0.7616615	-0.08250141
0.000565	0.00085	30.72768	32.47796	0.5791249	0.6566483	0.5917351	-0.06491328
0.003242	0.00687	21.63112	24.89125	0.8263755	0.7187809	0.6012697	-0.1175112
0.035763	0.00222	26.53421	14.46562	0.8948786	0.7348818	0.8192393	0.08435751
0.003001	9.37E-06	50.28065	25.22674	0.7703263	0.6282529	0.690497	0.0622441
0.005195	0.00465	23.32401	22.84381	0.9111608	0.6897292	0.5174432	-0.172286
0.013806	0.00211	26.74988	18.59918	0.1600872	0.0979958	0.1550608	0.05706497
0.020736	0.0069	21.60966	16.8328	0.8571185	0.684366	0.8218678	0.1375018
0.00136	0.00173	27.62828	28.66349	0.384723	0.5577483	0.6754513	0.1177031
0.036237	0.02112	16.75397	14.40851	0.2245003	0.3261637	0.4140192	0.08785544
0.022211	0.00094	30.29079	16.53423	0.8088264	0.6921018	0.5950654	-0.09703637
0.043948	0.00717	21.44472	13.57061	0.8787403	0.7825491	0.6837876	-0.0987615
0.008414	0.00978	20.09798	20.74973	0.3240499	0.2416514	0.3281792	0.08652777
0.011888	0.00223	26.51792	19.24905	0.3311322	0.2492362	0.3073973	0.05816106
0.000202	4.80E-05	43.18497	36.94054	0.2893179	0.130274	0.2564228	0.1261488

3.11E-05	0.00041	33.82571	45.07284	0.7912794	0.8634176	0.7742954	-0.08912226
0.012315	0.0358	14.46088	19.09576	0.8588402	0.9196383	0.8417274	-0.07791086
0.000558	0.00161	27.92966	32.53198	0.7448001	0.8756575	0.7179819	-0.1576756
0.043932	0.0027	25.68961	13.57224	0.8264393	0.6811669	0.749786	0.068619
0.011676	2.40E-05	46.19715	19.32718	0.1017513	0.4010133	0.5058157	0.1048025
0.005465	0.00178	27.50596	22.62376	0.8545634	0.922159	0.8658831	-0.05627593
0.018936	0.00211	26.75579	17.22717	0.428388	0.6247929	0.5161822	-0.1086107
0.006964	0.0054	22.67643	21.57135	0.8309451	0.9027632	0.835308	-0.06745523
0.005939	0.01145	19.41041	22.26306	0.3222692	0.5999717	0.4816165	-0.1183553
0.027674	0.00033	34.82661	15.57931	0.8580498	0.6600558	0.7480344	0.08797856
0.010693	0.0031	25.08241	19.70885	0.2940313	0.1970745	0.358984	0.1619095
0.008203	0.00076	31.20583	20.86019	0.800911	0.6185173	0.7257259	0.1072086
0.00919	0.0083	20.80921	20.36681	0.8160925	0.7251631	0.8116921	0.08652904
0.020453	0.02785	15.55106	16.8925	0.4929723	0.6591893	0.480309	-0.1788803
0.018569	0.00671	21.73598	17.31216	0.629155	0.749208	0.5989549	-0.1502532
0.004893	0.02044	16.89546	23.10388	0.6962827	0.5342669	0.2980335	-0.2362334
0.020417	0.00126	29.00842	16.90012	0.8248158	0.6917902	0.7653622	0.07357201
0.031592	0.0021	26.78427	15.00418	0.1150072	0.512921	0.7096756	0.1967546
4.32E-05	3.49E-05	44.57766	43.64143	0.8097445	0.8998923	0.8161083	-0.08378392
0.025684	0.02034	16.91634	15.90331	0.6148418	0.7260687	0.6217257	-0.104343
0.022921	2.65E-07	65.75968	16.39766	0.8385896	0.6798323	0.6132727	-0.06655957
0.001598	0.00031	35.04084	27.9655	0.150301	0.0705995	0.1308655	0.06026591
0.01122	0.01183	19.26849	19.50001	0.6493542	0.7903138	0.6614894	-0.1288244
0.004528	0.00011	39.75661	23.4413	0.4253539	0.6596596	0.7703016	0.110642
0.047716	0.03704	14.31314	13.21333	0.1604802	0.2109465	0.2679422	0.05699576
0.013733	0.0093	20.31705	18.62219	0.6736591	0.7451938	0.6736925	-0.07150136
0.029529	0.00407	23.90545	15.29757	0.1723643	0.2376074	0.3144806	0.07687321
0.033633	0.00122	29.15324	14.73233	0.1243841	0.4349481	0.565883	0.1309349
0.019533	0.00857	20.67019	17.09241	0.7965969	0.4866484	0.6980597	0.2114114
0.005984	0.00854	20.687	22.23013	0.1907575	0.0911033	0.1912277	0.1001244
0.02898	0.03555	14.49182	15.37899	0.7493118	0.8153402	0.743682	-0.07165825
0.014385	0.00753	21.22991	18.42092	0.5710118	0.6656553	0.5769114	-0.08874386
0.001677	0.00816	20.88366	27.75393	0.7733631	0.8326461	0.7512277	-0.08141844
0.02751	0.03731	14.2823	15.60502	0.6730548	0.7299255	0.6700901	-0.05983531
0.001424	0.00079	31.0257	28.46367	0.6561573	0.742735	0.6659782	-0.07675686
0.00446	0.00442	23.54899	23.50682	0.2295266	0.1470276	0.2369806	0.089953
0.039724	0.00959	20.18247	14.00949	0.8664673	0.7693403	0.8325732	0.06323284
0.035654	0.02169	16.63676	14.47891	0.8395758	0.7615077	0.8243059	0.06279809
0.01915	0.00215	26.67824	17.17825	0.1468397	0.0849703	0.1382107	0.05324041
0.013642	0.03332	14.77283	18.65124	0.7338234	0.7850838	0.7157087	-0.06937512
0.001014	0.00015	38.31895	29.93785	0.1490874	0.3105063	0.1927273	-0.117779
6.93E-07	7.20E-07	61.42819	61.59422	0.6178945	0.868589	0.6392548	-0.2293342
0.007165	0.00057	32.41755	21.44808	0.4033339	0.2730995	0.3565954	0.08349587
6.30E-06	3.63E-07	64.39866	52.00517	0.7565873	0.8856035	0.7617652	-0.1238382
0.019054	0.01242	19.05812	17.20018	0.4736353	0.5577075	0.4771664	-0.08054106
0.031804	0.0466	13.31645	14.97514	0.3907023	0.4540531	0.3658628	-0.08819027
0.008001	0.00628	22.02294	20.96858	0.4432155	0.1716737	0.3758681	0.2041943
0.049694	0.00117	29.31605	13.03699	0.6672998	0.8120949	0.7271236	-0.08497131
0.000967	0.0004	33.93737	30.14529	0.2712587	0.1502661	0.2587722	0.1085062
0.000426	0.00013	38.81252	33.70188	0.1247031	0.0537135	0.1115094	0.05779596
0.006332	0.00634	21.97592	21.98443	0.5836561	0.6619856	0.5914001	-0.07058542
0.001819	0.00373	24.278	27.40234	0.6676744	0.7677267	0.6537445	-0.1139822
0.003737	0.00545	22.6363	24.27532	0.6444497	0.729141	0.6387171	-0.09042394
0.021008	0.00335	24.75009	16.77613	0.1934025	0.0962207	0.1634975	0.06727678

0.000421	0.00017	37.67808	33.76075	0.5867753	0.6739085	0.5934174	-0.08049104
0.000766	1.57E-07	68.03126	31.15793	0.7141176	0.9797158	0.9285234	-0.05119234
0.032043	0.01203	19.19672	14.94266	0.4342886	0.3491056	0.414108	0.06500248
0.000133	1.35E-05	48.70401	38.77221	0.1033407	0.3336093	0.4498856	0.1162764
0.027432	0.02719	15.6567	15.61739	0.8199524	0.7672083	0.8218415	0.05463312
0.02929	0.02283	16.41545	15.33275	0.9033327	0.8336353	0.895159	0.06152373
0.040907	0.04432	13.53422	13.88201	0.5403389	0.4342399	0.5252389	0.09099907
0.024428	0.05012	13.00002	16.12105	0.7422578	0.8148689	0.7245158	-0.09035309
0.007488	0.0377	14.23669	21.25621	0.7797952	0.8647757	0.7350091	-0.1297666
0.001503	5.90E-05	42.28992	28.23117	0.1490677	0.0737746	0.1249145	0.05113982
0.000953	7.22E-05	41.41272	30.20684	0.7903638	0.5949703	0.7210974	0.1261271
0.006023	0.02284	16.41311	22.20187	0.1612491	0.2429162	0.4416784	0.1987622
0.029525	5.50E-06	52.59247	15.29814	0.7877092	0.5988711	0.6734643	0.07459326
0.035338	0.00723	21.40766	14.51761	0.0263157	0.2541966	0.3750029	0.1208062
0.04777	0.03127	15.04868	13.20844	0.9086058	0.7267896	0.8817722	0.1549826
0.000292	0.0003	35.25664	35.34727	0.3527448	0.1889718	0.3565723	0.1676005
0.002722	0.00011	39.53751	25.65103	0.5599182	0.6229627	0.5488048	-0.07415781
0.004854	0.00857	20.66803	23.13856	0.8255296	0.9045531	0.8188569	-0.08569618
0.016138	8.74E-05	40.58481	17.9216	0.7599622	0.6319398	0.5496262	-0.08231357
0.047181	0.00192	27.15596	13.26236	0.7780343	0.6470217	0.5854586	-0.06156305
0.000907	0.00066	31.8336	30.42228	0.1442551	0.0723706	0.1431498	0.07077928
0.01529	0.00515	22.87885	18.15582	0.1946526	0.1276197	0.1828071	0.05518741
0.003154	0.00444	23.52454	25.011	0.8303126	0.8965387	0.8286626	-0.06787618
0.004526	0.00225	26.47862	23.44304	0.8180074	0.7557449	0.8196454	0.06390043
0.049661	0.00044	33.55028	13.03983	0.2186414	0.6232615	0.4786109	-0.1446505
0.018949	0.00753	21.23226	17.22405	0.8561464	0.6991472	0.584111	-0.1150362
0.040166	0.02565	15.90992	13.96146	0.8850217	0.7821072	0.8633473	0.0812401
0.00067	0.00106	29.74904	31.73792	0.6279305	0.7328945	0.6186545	-0.11424
0.03966	0.01695	17.70724	14.01649	0.1671216	0.23453	0.3097951	0.07526518
0.003511	0.00382	24.1793	24.54611	0.8673311	0.9312959	0.8664274	-0.06486852
0.017294	0.01597	17.96657	17.62114	0.6504414	0.7385854	0.6481993	-0.09038602
0.029481	0.01605	17.94509	15.30462	0.8816456	0.81975	0.8713519	0.05160194
0.014428	1.26E-05	48.9803	18.4078	0.6854339	0.3552298	0.4563765	0.1011467
0.000506	0.0007	31.51921	32.96099	0.7372481	0.8396263	0.7293773	-0.1102491
0.049745	0.01396	18.55245	13.03253	0.8317763	0.7019669	0.7853164	0.08334948
0.016418	0.00353	24.51781	17.84673	0.8302471	0.7494549	0.8130335	0.06357851
0.01624	0.01969	17.05738	17.89404	0.107316	0.1685332	0.252899	0.08436581
0.030494	0.00237	26.25539	15.1579	0.7429337	0.6042411	0.6755149	0.07127383
0.012071	0.00292	25.34997	19.18271	0.6485996	0.7721337	0.7094021	-0.06273156
0.030458	6.18E-05	42.08787	15.16299	0.9164102	0.8232105	0.7215912	-0.1016193
0.000215	1.42E-05	48.49212	36.67245	0.8652669	0.6760896	0.5442954	-0.1317942
0.024236	0.01194	19.231	16.15534	0.7543243	0.6773244	0.591131	-0.08619332
0.005989	0.00261	25.83509	22.22647	0.1208062	0.0564635	0.1083793	0.05191582
0.002604	0.01234	19.08647	25.84384	0.0940964	0.1675517	0.2749768	0.1074251
0.015687	0.01998	16.99494	18.04449	0.8547153	0.9114951	0.8535765	-0.05791851
2.69E-05	9.36E-05	40.28624	45.701	0.1428725	0.0814191	0.1325912	0.05117216
0.014809	0.0079	21.02216	18.29462	0.1784441	0.1129058	0.1673158	0.05440999
0.000469	0.00135	28.68853	33.28469	0.1164583	0.0656546	0.1204034	0.05474881
0.001633	1.82E-05	47.39869	27.86954	0.6433216	0.8100493	0.7288246	-0.08122477
0.005349	0.00191	27.18207	22.71725	0.8650221	0.7834751	0.8345042	0.05102912
0.004088	7.84E-08	71.05901	23.8853	0.787701	0.5094472	0.4198439	-0.0896033
0.000293	0.00029	35.4182	35.32606	0.5763313	0.6418661	0.5646677	-0.07719844
0.019319	0.00555	22.55786	17.14009	0.2151585	0.3517676	0.4499733	0.09820578
0.036445	0.00848	20.71424	14.38359	0.4479263	0.3505728	0.4117586	0.06118578



0.016881	0.01915	17.17783	17.72613	0.7611225	0.6076661	0.4504248	-0.1572413
0.020215	0.00018	37.43716	16.94316	0.8258173	0.5596247	0.4673828	-0.09224191
0.001633	0.00319	24.9581	27.86983	0.5009164	0.6236762	0.5028165	-0.1208597
0.000153	6.14E-06	52.11605	38.15693	0.8394246	0.7361113	0.8037385	0.06762718
0.035842	0.02606	15.83954	14.45612	0.8679603	0.7488582	0.8531057	0.1042475
0.037215	0.02107	16.76435	14.29283	0.2583444	0.1483133	0.2388878	0.0905745
0.020024	0.0027	25.67939	16.98455	0.8884063	0.7510532	0.8360649	0.08501171
0.002676	0.00917	20.37866	25.72465	0.4641459	0.5534967	0.4397515	-0.1137451
0.023103	0.00016	37.97525	16.36331	0.7777802	0.6326538	0.6989373	0.06628346
0.033358	0.01904	17.20291	14.76802	0.7671942	0.8701192	0.793577	-0.07654226
0.035886	0.00025	35.98445	14.45072	0.3111197	0.5749733	0.4846221	-0.09035128
0.002583	0.00625	22.0384	25.87892	0.1690651	0.1041283	0.1730244	0.06889613
0.001733	0.00135	28.70575	27.61193	0.8116371	0.8768967	0.8154442	-0.06145251
0.019419	0.02864	15.43062	17.11768	0.9704778	0.8057218	0.6315519	-0.1741698
0.043669	0.0329	14.82855	13.59826	0.3343331	0.3949883	0.4462863	0.05129797
0.014916	0.00107	29.72348	18.2636	0.7605765	0.5874407	0.6771029	0.08966222
0.011039	0.01408	18.51292	19.57071	0.5888091	0.6786056	0.5873922	-0.09121337
0.01241	0.00514	22.89354	19.06233	0.6566637	0.5866357	0.5264615	-0.06017418
0.003679	0.00191	27.1922	24.34305	0.7900646	0.8920082	0.7997966	-0.09221161
0.002699	0.00318	24.97622	25.68817	0.5639536	0.6265246	0.7044422	0.07791761
0.02626	0.04365	13.6	15.80703	0.8758318	0.802164	0.6809995	-0.1211645
0.004875	0.0071	21.48786	23.11995	0.3260548	0.1877864	0.3374699	0.1496835
0.010389	0.02842	15.4636	19.83428	0.6207705	0.5413043	0.43907	-0.1022344
0.022996	0.02957	15.29132	16.38348	0.753538	0.8088904	0.7407038	-0.06818656
0.0032	0.00153	28.15009	24.94817	0.094254	0.1700221	0.3458977	0.1758756
0.04112	0.04081	13.89283	13.85944	0.8715373	0.9332435	0.8524472	-0.08079632
0.010987	0.01214	19.15938	19.59113	0.8216264	0.7632202	0.8228015	0.05958131
0.035694	0.00033	34.85846	14.47402	0.7527577	0.6075098	0.6856669	0.07815712
0.003448	0.00037	34.35262	24.62395	0.1803286	0.1066251	0.1757785	0.06915337
0.004478	0.0002	37.0435	23.48962	0.8121287	0.9440178	0.8878576	-0.05616023
0.002093	0.02073	16.83486	26.79296	0.7148183	0.8159503	0.7121909	-0.1037594
0.000358	0.00031	35.05135	34.46011	0.7636223	0.9062375	0.8135762	-0.0926613
0.026693	0.03077	15.11928	15.73597	0.8502933	0.7797434	0.8537807	0.07403731
1.21E-06	3.67E-06	54.35762	59.1796	0.1848705	0.1087045	0.1890225	0.080318
0.00591	5.95E-07	62.25622	22.28446	0.718682	0.9368469	0.8759496	-0.06089728
0.00011	4.20E-05	43.76349	39.60558	0.8803535	0.8064646	0.8760673	0.06960274
0.000921	0.01723	17.63795	30.35603	0.461347	0.5303236	0.6571963	0.1268727
0.046431	0.00934	20.29444	13.33196	0.7078489	0.6222187	0.566605	-0.05561377
0.000407	0.00043	33.62809	33.90873	0.0275791	0.2632698	0.3966324	0.1333626
0.018127	0.02673	15.72986	17.41682	0.2021063	0.1462134	0.20669	0.06047662
2.89E-05	0.00035	34.60508	45.38749	0.2390055	0.1328825	0.2282723	0.09538978
0.019303	0.0172	17.64502	17.14367	0.2754753	0.1319803	0.2716899	0.1397096
0.000765	0.01999	16.99283	31.16481	0.7890088	0.870491	0.7059975	-0.1644935
0.00023	0.0005	33.03471	36.38643	0.4601207	0.6496117	0.4787819	-0.1708298
0.004237	2.30E-08	76.38214	23.72905	0.1241363	0.3891523	0.4965558	0.1074036
0.003202	0.00024	36.23353	24.94511	0.4988548	0.6505626	0.5575236	-0.09303901
0.021815	0.00223	26.50816	16.61236	0.886659	0.7048352	0.6211672	-0.083668
0.000742	8.54E-06	50.6836	31.29753	0.1000394	0.0373714	0.0889715	0.05160011
0.037118	0.01913	17.18396	14.30418	0.5762219	0.6768125	0.5954857	-0.08132671
0.000627	3.11E-05	45.06917	32.02823	0.444249	0.3689464	0.4348694	0.06592303
0.001355	0.00651	21.86557	28.68168	0.5142595	0.5872535	0.5239819	-0.06327163
0.001869	0.00185	27.33733	27.28485	0.3813046	0.5737358	0.3727325	-0.2010033
0.024397	0.00101	29.94616	16.12658	0.7874125	0.62831	0.7104739	0.08216389
0.004571	0.02267	16.44486	23.39943	0.6089204	0.6708662	0.5852254	-0.08564078

0.009518	0.0025	26.01828	20.21437	0.8036313	0.9167957	0.8365324	-0.08026329
0.003349	0.002	26.99105	24.75039	0.7738295	0.6568024	0.7629092	0.1061068
0.026261	3.58E-05	44.45569	15.80687	0.7968201	0.642122	0.7006541	0.05853214
0.006074	7.47E-05	41.26589	22.16529	0.7468285	0.5156135	0.6178828	0.1022693
0.021573	0.01725	17.63244	16.66095	0.258525	0.196592	0.2548792	0.0582872
0.010448	0.00318	24.97997	19.80953	0.8687376	0.9384481	0.8877393	-0.05070877
0.004242	0.00993	20.0299	23.72434	0.919341	0.7933529	0.6383749	-0.1549779
0.045101	0.03615	14.41866	13.45818	0.9005522	0.8463495	0.8987286	0.05237912
0.001694	0.00158	28.00765	27.7112	0.573373	0.6591123	0.5744709	-0.08464132
0.024796	0.01878	17.26397	16.05614	0.7373999	0.8037161	0.7401556	-0.06356043
1.71E-06	0.00016	37.83413	57.68261	0.7071615	0.9051071	0.692218	-0.2128892
0.007891	0.01459	18.36011	21.02866	0.8440751	0.747917	0.6433381	-0.1045789
0.044354	0.00011	39.70021	13.53067	0.1179736	0.2378345	0.351786	0.1139514
0.049274	0.00504	22.97768	13.07385	0.1152373	0.2463164	0.3247654	0.07844904
0.047669	0.00023	36.44699	13.2176	0.6363375	0.7081538	0.6404376	-0.06771623
0.001021	0.001	30.01914	29.90784	0.6229959	0.755181	0.6229671	-0.1322139
0.002446	0.00029	35.33679	26.11461	0.2360581	0.1703518	0.2221227	0.05177092
0.013265	0.02767	15.57956	18.77307	0.6679552	0.7371582	0.6558649	-0.08129323
0.002842	0.00576	22.39533	25.46396	0.7575049	0.8216917	0.7389322	-0.0827595
0.000375	0.00013	38.84494	34.25935	0.6232634	0.7451394	0.6350176	-0.1101218
0.018823	0.03637	14.39272	17.25316	0.7474607	0.6722439	0.5800223	-0.09222155
0.003983	0.01454	18.37366	23.99804	0.8504179	0.9248878	0.8360553	-0.08883252
9.34E-05	0.00019	37.15122	40.29779	0.6896636	0.8439624	0.6906299	-0.1533325
0.027	0.04329	13.63639	15.68635	0.7220148	0.784979	0.7113742	-0.07360484
0.006474	0.00721	21.41997	21.88842	0.6239805	0.737114	0.6309606	-0.1061533
0.000454	7.64E-07	61.16915	33.42821	0.450921	0.7392863	0.6289561	-0.1103302
0.000168	0.00022	36.53814	37.75045	0.1329524	0.0695823	0.1347282	0.06514593
0.000144	0.00015	38.15968	38.41041	0.1458838	0.0654577	0.1373129	0.07185525
0.029683	0.01883	17.25209	15.27487	0.5911401	0.6986522	0.6078783	-0.09077395
0.041942	0.00158	28.02015	13.77351	0.8861757	0.6999385	0.6200547	-0.07988382
1.76E-05	2.26E-05	46.46032	47.5425	0.1825014	0.0944503	0.1809077	0.08645739
0.024866	0.01341	18.72614	16.04392	0.213903	0.3162087	0.4659974	0.1497887
0.000706	0.00118	29.2932	31.51206	0.8317301	0.9018605	0.8355024	-0.0663581
0.00581	0.00018	37.42191	22.35835	0.872772	0.7512233	0.8166332	0.06540985
0.000119	0.00168	27.75421	39.25093	0.6974177	0.7674196	0.6472417	-0.120178
0.036582	0.0069	21.61426	14.36732	0.3329924	0.4052442	0.4771317	0.07188745
0.045502	0.0014	28.53514	13.41968	0.8359351	0.5266397	0.6659072	0.1392675
0.026598	0.01948	17.10508	15.75144	0.8606806	0.731954	0.8411599	0.1092059
0.007594	0.0012	29.19781	21.19517	0.7368429	0.6072448	0.6929064	0.08566166
0.0336	0.02868	15.42354	14.73658	0.8629599	0.9315695	0.8753552	-0.05621427
0.020821	0.03662	14.36267	16.81494	0.6651095	0.7161271	0.643034	-0.07309306
0.047095	0.04337	13.62787	13.27025	0.6674148	0.7990009	0.67361	-0.1253909
0.009727	0.00093	30.2935	20.1202	0.8023831	0.6892669	0.5963801	-0.09288681
0.032221	0.02842	15.46318	14.91856	0.9152784	0.8575658	0.9100787	0.05251293
0.041653	0.03221	14.92064	13.80353	0.8235832	0.7567089	0.8193327	0.06262375
0.044559	0.02774	15.56857	13.5106	0.5841942	0.6719458	0.7429792	0.07103342
0.029567	0.03744	14.26686	15.29194	0.5001006	0.6446372	0.4813701	-0.1632672
0.026552	0.012	19.20943	15.7591	0.1453585	0.2933648	0.3982665	0.1049017
0.001123	0.0001	39.80055	29.49732	0.5828853	0.6632717	0.5568572	-0.1064145
0.007704	0.00273	25.63746	21.13283	0.5899853	0.7651051	0.6284872	-0.1366179
0.003284	1.83E-06	57.37601	24.83655	0.8902588	0.6260414	0.7354743	0.1094329
0.003712	0.002	26.98141	24.30376	0.8152271	0.9276943	0.8329042	-0.09479022
0.00776	0.03831	14.1664	21.10163	0.2999446	0.3922888	0.4758188	0.08352997
0.010041	0.00112	29.49241	19.98216	0.1264015	0.2322889	0.3761637	0.1438748

0.010569	0.00087	30.59644	19.7595	0.5739933	0.4490987	0.5197285	0.07062977
0.035787	0.00198	27.03585	14.46277	0.0910803	0.2978115	0.3922747	0.09446313
0.01426	0.04729	13.25204	18.45877	0.297009	0.3694398	0.4709726	0.1015328
0.028026	0.02816	15.50297	15.52446	0.7314326	0.5913095	0.7281306	0.1368211
0.047272	0.01639	17.8541	13.254	0.7801327	0.6180909	0.7306966	0.1126056
0.032825	0.03301	14.8136	14.8379	0.7903134	0.8631973	0.7890589	-0.07413837
0.008823	0.00843	20.74426	20.5437	0.6785101	0.8133507	0.6676989	-0.1456518
0.029448	0.02038	16.90743	15.30944	0.8847125	0.7812202	0.864235	0.08301479
0.024511	3.13E-05	45.04942	16.10647	0.5495678	0.7792745	0.8426234	0.06334894
0.04497	0.00246	26.08186	13.47075	0.8996456	0.7246874	0.7999209	0.07523344
0.02129	0.00315	25.0198	16.71832	0.7625948	0.8258775	0.7666792	-0.05919824
0.002565	0.00077	31.14264	25.90867	0.84062	0.8921877	0.8168004	-0.07538728
0.008114	0.00569	22.45266	20.90773	0.5301155	0.6175817	0.5318619	-0.08571977
0.025462	0.01807	17.43075	15.94109	0.5301511	0.7197317	0.5520878	-0.1676439
0.007402	0.00814	20.89169	21.30656	0.9105114	0.8311762	0.7014121	-0.1297642
0.016225	1.95E-05	47.09732	17.89817	0.8776312	0.5982386	0.5225202	-0.07571841
2.38E-05	0.00074	31.28824	46.23452	0.3836488	0.5113471	0.3456019	-0.1657453
0.003639	0.0078	21.07734	24.38975	0.1908511	0.1032296	0.1855842	0.08235462
0.028138	0.02589	15.86905	15.50705	0.6383005	0.7211125	0.6402885	-0.08082405
0.042934	0.00149	28.25899	13.67199	0.7802177	0.6460534	0.7072314	0.06117793
0.030691	0.00234	26.30739	15.12986	0.9560369	0.8677472	0.920801	0.05305374
0.008844	0.0038	24.20446	20.53369	0.8189651	0.7483895	0.6828725	-0.06551696
0.028544	0.00635	21.97423	15.44487	0.3078732	0.4157302	0.3390017	-0.07672853
0.007488	0.00507	22.94942	21.25607	0.1280603	0.0711506	0.1229992	0.05184863
0.015207	0.00023	36.42278	18.17947	0.7072523	0.5296654	0.6319278	0.1022624
0.022756	0.00218	26.62278	16.42903	0.8008437	0.531888	0.3790819	-0.1528061
0.013345	0.00834	20.7909	18.74691	0.3573651	0.2831056	0.3388909	0.05578524
0.026559	0.003	25.235	15.75785	0.0864994	0.2775078	0.3563971	0.0788892
0.021417	0.00033	34.83257	16.69251	0.1427053	0.3030408	0.3865005	0.08345973
0.007009	0.00695	21.57766	21.54369	0.7439947	0.8561256	0.7343106	-0.121815
0.003778	0.00667	21.75819	24.22696	0.6482012	0.7886729	0.6507908	-0.1378822
1.64E-05	1.66E-06	57.80047	47.8491	0.8080177	0.8722053	0.8008491	-0.07135613
0.007474	0.01252	19.02306	21.26454	0.1954686	0.1211001	0.2009528	0.07985269
0.007713	0.00036	34.49017	21.12766	0.8471434	0.7140575	0.7926713	0.07861375
0.001719	0.00138	28.61415	27.64664	0.7923443	0.6418687	0.5108197	-0.131049
0.003541	0.01082	19.65924	24.50841	0.8708152	0.7824129	0.6218902	-0.1605227
0.036408	0.02737	15.627	14.38809	0.8310333	0.8945946	0.8366446	-0.05794999
3.19E-05	6.51E-05	41.86565	44.96658	0.5376266	0.659626	0.5374625	-0.1221635
0.011229	0.02388	16.22049	19.49661	0.8523278	0.7536436	0.6442533	-0.1093903
0.010962	0.00733	21.34854	19.60115	0.8176426	0.7263649	0.8108395	0.08447465
0.008537	1.94E-06	57.13161	20.68704	0.1567782	0.0898975	0.1588807	0.06898319
0.01248	0.02458	16.0941	19.03777	0.6469338	0.7731211	0.62591	-0.147211
0.009187	0.01656	17.81053	20.36821	0.5204595	0.5912235	0.5068421	-0.08438139
0.012393	0.00051	32.9609	19.0682	0.1898412	0.3335186	0.4328541	0.09933551
0.029734	0.01282	18.92237	15.26747	0.8788002	0.9419407	0.8905523	-0.05138845
0.001867	0.00734	21.34481	27.28937	0.8764152	0.821375	0.7389657	-0.08240916
0.000392	0.00019	37.26499	34.06896	0.1583654	0.0884725	0.1570708	0.06859837
0.000264	0.02326	16.33347	35.77626	0.5778597	0.6457629	0.5370632	-0.1086996
0.000644	0.00011	39.41169	31.91294	0.1914559	0.0721348	0.1537957	0.081661
0.007822	0.0259	15.86715	21.06704	0.7445077	0.6376076	0.4673421	-0.1702655
0.022314	0.00093	30.30638	16.51423	0.8458101	0.7821452	0.7275807	-0.05456448
0.005314	0.01758	17.5491	22.74598	0.2568115	0.1906431	0.2833324	0.09268924
0.030299	0.00027	35.69455	15.18575	0.1990467	0.4371746	0.5136884	0.07651384
0.033814	0.0002	37.04669	14.7091	0.5815112	0.4283029	0.483423	0.05512009

0.028194	0.0278	15.5595	15.49844	0.7646298	0.7021811	0.7643138	0.06213263
0.010702	0.00109	29.64318	19.70525	0.7944047	0.6689434	0.5488852	-0.1200582
0.006092	0.00668	21.75314	22.15231	0.7662145	0.8302261	0.7698336	-0.06039247
0.007074	0.00169	27.71789	21.50344	0.8720541	0.6631418	0.7932137	0.1300718
0.000205	0.00238	26.2264	36.87833	0.5799886	0.5040476	0.4467532	-0.05729442
0.005315	0.00017	37.6184	22.74527	0.7623116	0.8843115	0.8033625	-0.08094891
0.004143	0.00715	21.4577	23.8268	0.6319964	0.8060639	0.6059975	-0.2000664
0.026594	0.02324	16.33835	15.75217	0.6426426	0.7968135	0.6532766	-0.143537
2.54E-05	2.92E-05	45.34796	45.95665	0.2019174	0.0818042	0.1775493	0.09574506
0.030265	0.00021	36.83107	15.19053	0.8774381	0.6323228	0.5561835	-0.07613935
0.002614	0.00084	30.7658	25.82753	0.8624625	0.8008093	0.8518888	0.0510795
0.032305	0.00407	23.90863	14.9073	0.8198472	0.75674	0.6834539	-0.07328612
0.018238	1.55E-05	48.10483	17.39016	0.0807138	0.2369397	0.2998795	0.06293987
0.000535	0.0007	31.57163	32.71599	0.8210475	0.9054738	0.8058853	-0.09958853
0.001003	0.03095	15.09394	29.98633	0.3907928	0.5241581	0.7461621	0.2220041
0.00022	0.00029	35.43057	36.57079	0.1819095	0.1136787	0.1731628	0.05948417
0.028902	0.04161	13.80788	15.39067	0.3076403	0.4071067	0.2957562	-0.1113505
0.000375	4.02E-05	43.95796	34.25693	0.8115621	0.9146881	0.8412241	-0.07346394
0.019089	0.00177	27.51927	17.19218	0.1589605	0.0677599	0.1383436	0.07058372
0.032678	0.00073	31.39485	14.85741	0.8518512	0.7758576	0.7165018	-0.05935583
0.042086	0.00019	37.14289	13.75862	0.6776908	0.4295263	0.4956861	0.06615978
0.03738	0.00517	22.86168	14.27362	0.7395992	0.8696474	0.7947013	-0.07494608
0.001238	0.00016	37.89571	29.07105	0.7255113	0.6496401	0.5216713	-0.1279688
0.025928	0.00049	33.05542	15.86227	0.8286116	0.6878749	0.6292016	-0.0586733
0.000179	0.00025	35.95174	37.4785	0.6030988	0.7403679	0.5972819	-0.143086
0.004074	0.0065	21.86825	23.89966	0.8068651	0.8666576	0.8013275	-0.06533
0.013931	0.00636	21.96404	18.56017	0.7698662	0.6815502	0.5972189	-0.08433133
0.005796	0.00483	23.15832	22.36903	0.6688153	0.8253313	0.6760758	-0.1492555
3.10E-05	1.34E-06	58.73819	45.09281	0.6922912	0.8408375	0.7279723	-0.1128652
0.020596	0.01819	17.40274	16.86214	0.7961913	0.8841764	0.7995045	-0.08467185
0.000101	0.00155	28.09172	39.9613	0.4853486	0.599157	0.47078	-0.1283771
0.028859	0.00271	25.67388	15.39713	0.5772748	0.7773248	0.6902387	-0.08708613
0.001964	0.03009	15.2155	27.06778	0.6502727	0.7058386	0.6466919	-0.0591467
0.01718	0.00327	24.84975	17.6497	0.8754743	0.6765708	0.5680743	-0.1084966
0.015824	0.04167	13.80211	18.00691	0.6908699	0.7559737	0.6683384	-0.08763537
0.021513	0.00023	36.41481	16.67307	0.4268675	0.6713216	0.619504	-0.05181759
0.001276	0.00059	32.2563	28.94206	0.282298	0.1961634	0.2809862	0.08482281
0.019404	0.02276	16.42867	17.12115	0.173402	0.1139234	0.1718505	0.05792711
0.003744	0.00627	22.03	24.2671	0.8492093	0.911354	0.8371314	-0.07422262
0.00348	9.27E-05	40.3307	24.58432	0.5790207	0.6707849	0.5966511	-0.07413384
0.015411	0.01554	18.0864	18.12156	0.5896214	0.6648421	0.5874148	-0.07742733
0.023895	0.00452	23.45285	16.21691	0.049035	0.1307366	0.074622	-0.05611456
0.010869	0.01194	19.23013	19.63829	0.6698219	0.8558351	0.6927983	-0.1630368
0.035359	0.0061	22.14415	14.51502	0.7997098	0.7178617	0.6204793	-0.09738228
0.008394	0.00515	22.88013	20.76022	0.5958969	0.7160321	0.6159273	-0.1001048
4.35E-05	0.0006	32.22631	43.61801	0.5083737	0.5946686	0.466101	-0.1285677
0.024961	0.00014	38.43631	16.02731	0.8009055	0.5969583	0.671531	0.07457272
0.003718	0.00216	26.66319	24.29647	0.2015783	0.1079858	0.1905167	0.08253091
0.002026	0.00119	29.24707	26.93366	0.0752765	0.249743	0.3880316	0.1382886
1.84E-05	2.30E-05	46.37526	47.35689	0.6965232	0.853277	0.7239023	-0.1293746
0.001116	0.00047	33.32296	29.52189	0.1221668	0.0550709	0.1121557	0.05708475
0.000895	0.00476	23.22834	30.48368	0.1577573	0.0571967	0.1496831	0.0924865
0.00951	8.53E-05	40.69006	20.21815	0.1411391	0.2187167	0.2794632	0.06074656
0.010313	0.01565	18.05442	19.86606	0.7097674	0.7641717	0.6989604	-0.06521127

0.020707	0.01562	18.06415	16.83877	0.2530592	0.1402091	0.2425202	0.1023111
0.001217	0.00105	29.77323	29.14706	0.1998057	0.1124041	0.1862725	0.07386843
0.017569	0.00939	20.27121	17.55265	0.8558921	0.7851842	0.8407491	0.05556496
0.035624	0.00108	29.65957	14.48261	0.66107	0.5191503	0.5858266	0.0666764
0.04271	0.01827	17.38206	13.69471	0.8328261	0.7532587	0.8088738	0.05561508
0.021354	0.02071	16.83747	16.70528	0.8025092	0.8836466	0.8073338	-0.07631282
0.00873	0.01611	17.92988	20.58974	0.2319022	0.1724221	0.2346795	0.06225744
0.001337	0.00429	23.67181	28.73995	0.390561	0.5673042	0.3950373	-0.1722669
0.000612	0.0198	17.03388	32.13411	0.7303808	0.7915556	0.6654717	-0.1260839
0.049847	6.77E-05	41.69263	13.02364	0.064646	0.2846393	0.3777175	0.09307817
0.000171	0.00015	38.31092	37.66769	0.8781509	0.9302858	0.8755946	-0.05469119
0.016486	0.0003	35.26226	17.82892	0.082573	0.2407675	0.3515332	0.1107657
0.044554	9.91E-06	50.03928	13.51115	0.7587765	0.6015536	0.6554221	0.05386852
0.047323	4.20E-05	43.76252	13.24924	0.8878926	0.7904301	0.7347263	-0.05570386
0.037688	0.0456	13.40998	14.23797	0.6500654	0.7033064	0.6453418	-0.05796453
0.000332	0.00091	30.42597	34.79181	0.8579251	0.9245691	0.849579	-0.07499006
0.046308	4.52E-07	63.45087	13.34348	0.3097648	0.8466174	0.7734677	-0.07314971
0.015607	0.02111	16.7554	18.06674	0.4895667	0.3669372	0.2769747	-0.08996248
0.006372	0.01359	18.66858	21.95708	0.8573018	0.78017	0.681024	-0.09914599
0.037636	0.01144	19.41704	14.24398	0.0277665	0.1071947	0.2385458	0.1313511
6.41E-05	1.35E-05	48.69658	41.93336	0.1397161	0.0547229	0.1123152	0.05759231
0.001374	0.00394	24.04724	28.61863	0.6685314	0.8050085	0.6604493	-0.1445592
0.039109	0.02262	16.45568	14.07723	0.1687561	0.1013438	0.1601071	0.05876336
0.001504	0.00422	23.74898	28.2274	0.771157	0.8261061	0.7548949	-0.07121126
0.001964	0.00022	36.59735	27.06872	0.739285	0.8780654	0.7430427	-0.1350227
0.028349	0.03157	15.00708	15.47469	0.6940079	0.7576976	0.6923978	-0.06529985
0.004496	9.06E-06	50.42893	23.47154	0.7809726	0.5330539	0.6728572	0.1398032
0.002708	0.00194	27.12546	25.6735	0.6269135	0.7180933	0.6339361	-0.0841572
0.036894	0.01739	17.59578	14.33042	0.4268477	0.2591617	0.12562	-0.1335417
0.007718	0.00038	34.18935	21.12504	0.0933722	0.184706	0.247038	0.06233193
0.018318	0.03512	14.54428	17.37112	0.4911456	0.6145873	0.4724942	-0.1420931
0.002404	0.00106	29.73236	26.1913	0.1808061	0.2695539	0.3533757	0.08382178
0.014821	0.02278	16.42418	18.29133	0.8743318	0.8024368	0.7201988	-0.082238
0.021462	0.01067	19.71772	16.68325	0.8324952	0.6614782	0.7948267	0.1333485
0.000152	0.01921	17.16368	38.17356	0.8929731	0.8346072	0.6889386	-0.1456686
0.030211	0.01757	17.55313	15.19842	0.6762079	0.3636299	0.6179695	0.2543395
0.011181	0.01824	17.38938	19.51512	0.7977394	0.6938493	0.5861106	-0.1077388
0.005881	5.78E-05	42.38383	22.30518	0.3030221	0.4658536	0.562879	0.09702541
0.038937	0.01637	17.85913	14.09642	0.8944175	0.7415745	0.8486109	0.1070364
0.035759	6.40E-06	51.93541	14.46617	0.5582448	0.7553879	0.7042156	-0.05117231
0.030365	1.30E-05	48.84859	15.17623	0.0980409	0.2855905	0.3956215	0.110031
0.012913	8.88E-05	40.51568	18.88957	0.8243411	0.5627415	0.4887238	-0.07401766
0.027417	0.00084	30.73346	15.61977	0.7587101	0.604627	0.6714063	0.0667794
0.020964	0.0033	24.81467	16.7852	0.8757196	0.75204	0.8251901	0.07315011
0.005865	0.00194	27.12321	22.31753	0.5524889	0.6550096	0.5721195	-0.0828901
0.035596	0.0243	16.14378	14.48595	0.7472957	0.8179755	0.7525507	-0.06542483
0.036017	0.00812	20.90324	14.43491	0.5546573	0.4121798	0.5094832	0.09730341
0.010391	4.88E-06	53.11498	19.83359	0.1852798	0.5637617	0.4798746	-0.08388709
0.011981	0.00376	24.24479	19.21507	0.8374839	0.7756665	0.8316596	0.05599318
0.016024	0.0024	26.19458	17.95235	0.0862712	0.163407	0.2397989	0.07639194
0.005611	0.00453	23.44381	22.50945	0.4319223	0.3580956	0.4218636	0.06376792
0.001613	0.0023	26.38965	27.92372	0.6683288	0.8426321	0.6850442	-0.1575878
0.034981	0.03184	14.97032	14.56164	0.216131	0.1482482	0.2181212	0.06987299
0.040466	0.01972	17.05174	13.92905	0.0559655	0.1292649	0.2048895	0.07562463

0.000305	0.00017	37.73227	35.1607	0.1790523	0.1061558	0.1633884	0.05723268
0.001782	0.00154	28.11414	27.49152	0.2149889	0.1087638	0.2107948	0.1020309
0.026462	0.04396	13.56931	15.77376	0.9024703	0.8105886	0.700913	-0.1096757
0.047421	0.04321	13.64466	13.24032	0.1939087	0.3052784	0.2002531	-0.1050252
0.008993	0.0014	28.53028	20.46109	0.0880557	0.2694506	0.1564201	-0.1130305
0.016379	0.00048	33.21048	17.85709	0.8822119	0.6520229	0.7457516	0.09372868
0.014876	0.00383	24.17002	18.275	0.207274	0.1028685	0.1786292	0.07576073
0.041833	0.01998	16.99321	13.78481	0.4682813	0.3296396	0.2490372	-0.08060243
0.040054	0.00129	28.88918	13.97354	0.8584908	0.7346793	0.7893336	0.05465439
0.01781	0.03417	14.66322	17.49335	0.7250374	0.7934683	0.7055243	-0.08794404
0.04399	0.00183	27.36928	13.56648	0.0937247	0.4562228	0.5740759	0.1178531
0.004232	7.88E-05	41.03692	23.73439	0.6865887	0.7595648	0.6690066	-0.09055822
0.042736	0.01247	19.04113	13.69205	0.2033711	0.279696	0.3566163	0.07692029
0.049943	0.01512	18.20461	13.01523	0.7974334	0.6729075	0.582478	-0.09042949
0.008154	0.00019	37.26888	20.88653	0.8483296	0.7291884	0.7913964	0.06220791
0.04647	0.03519	14.53558	13.32828	0.2391366	0.1551248	0.2313163	0.07619157
0.004252	0.00287	25.4231	23.71438	0.6760608	0.56636	0.683063	0.116703
0.016947	0.02537	15.95747	17.70901	0.8351538	0.7792876	0.8418038	0.06251619
0.012745	1.69E-07	67.71712	18.94671	0.8212571	0.5165916	0.5957757	0.07918409
0.028897	0.01372	18.62635	15.39144	0.8322172	0.6768181	0.5587933	-0.1180247
0.049548	0.0011	29.60271	13.04972	0.8848307	0.761829	0.8235043	0.06167529
0.006556	0.00024	36.15849	21.83357	0.7085176	0.554854	0.6438358	0.0889818
0.01052	0.00703	21.53354	19.77972	0.7942671	0.8578012	0.8029987	-0.05480253
0.025583	0.03558	14.48788	15.92055	0.808399	0.7460863	0.8175155	0.07142916
0.01238	0.01206	19.18635	19.07265	0.6951369	0.7773072	0.6958534	-0.08145382
0.007858	0.00927	20.32868	21.04684	0.87581	0.7860883	0.7064489	-0.07963946
0.021824	0.04689	13.28888	16.61057	0.8835033	0.8186101	0.7125728	-0.1060372
0.008016	0.00071	31.47388	20.96019	0.0196075	0.5248753	0.6978793	0.1730039
4.61E-05	0.00052	32.80047	43.36068	0.5161439	0.5881317	0.4744706	-0.1136612
0.000905	0.00458	23.38898	30.43143	0.415967	0.501518	0.3992016	-0.1023163
0.012482	0.01356	18.67614	19.03707	0.4596245	0.2929144	0.4560988	0.1631844
0.017299	0.04643	13.332	17.61982	0.6152996	0.674282	0.5873172	-0.08696479
0.034763	0.0203	16.92565	14.58882	0.0530032	0.1290964	0.06813	-0.0609664
0.016897	0.013	18.8617	17.722	0.7088963	0.6469513	0.7089588	0.06200753
0.031133	0.00179	27.4819	15.06781	0.073659	0.3285322	0.4207377	0.0922055
0.00108	0.00021	36.68848	29.66558	0.1800156	0.0923783	0.1568338	0.06445553
0.039763	0.04576	13.3952	14.00517	0.7249543	0.8134709	0.722236	-0.09123489
0.03931	0.02618	15.81983	14.055	0.8131071	0.8880162	0.8226153	-0.06540088
0.000667	0.00101	29.948	31.75982	0.846318	0.9091707	0.8418343	-0.06733637
0.003223	0.01514	18.19795	24.91694	0.8572429	0.9136993	0.8301573	-0.08354197
0.008035	1.84E-05	47.3445	20.95027	0.0607025	0.5065377	0.6385496	0.132012
0.003556	0.00125	29.02033	24.49094	0.8288115	0.8952625	0.8401343	-0.05512828
0.031985	0.04186	13.78155	14.95048	0.7401938	0.8021115	0.7384048	-0.06370668
0.047779	0.00217	26.64216	13.20763	0.1064666	0.2030856	0.3096678	0.1065822
0.003897	0.00731	21.36229	24.09313	0.0653439	0.1210921	0.0649106	-0.05618151
0.028867	0.02347	16.29465	15.39595	0.5654795	0.687943	0.5766407	-0.1113023
0.004576	0.00683	21.6532	23.3956	0.4420826	0.3362245	0.4468834	0.1106589
0.006681	0.00034	34.73212	21.7517	0.3007129	0.4653799	0.397375	-0.06800488
0.033604	0.00105	29.78687	14.73615	0.6344619	0.7673007	0.8280678	0.06076713
0.006881	0.00161	27.94446	21.62375	0.7522484	0.6883411	0.5660349	-0.1223062
7.64E-05	6.26E-05	42.03442	41.16642	0.0915247	0.0360993	0.0938736	0.05777437
0.035422	0.04847	13.14496	14.50733	0.6018854	0.4091466	0.6261645	0.2170179
0.017827	0.00851	20.69939	17.48925	0.7884776	0.8543326	0.7957555	-0.05857717
0.015254	0.00404	23.93466	18.16628	0.2288202	0.1537301	0.2114833	0.05775324

0.012117	0.00013	38.88163	19.1659	0.8456385	0.5781128	0.6981742	0.1200614
0.008117	0.00037	34.28802	20.90607	0.7941522	0.6548626	0.5671497	-0.08771288
0.013293	0.00244	26.1285	18.76367	0.8160477	0.6236658	0.7619727	0.138307
9.10E-05	0.00015	38.22382	40.40912	0.7769309	0.9236451	0.8142386	-0.1094064
0.000767	0.00029	35.38297	31.14995	0.8604586	0.7927065	0.8519579	0.05925136
0.00171	0.00363	24.40523	27.66886	0.7216388	0.7989478	0.7136327	-0.08531514
0.018097	0.00557	22.54019	17.42398	0.5823296	0.4996478	0.5807024	0.08105465
0.014747	0.00627	22.0274	18.31296	0.8599194	0.7681639	0.6915011	-0.07666276
0.025124	0.00062	32.09984	15.99909	0.8200074	0.592925	0.6959363	0.1030113
0.017601	0.00614	22.11783	17.54459	0.589833	0.6615245	0.6036894	-0.0578351
0.042543	0.00167	27.78063	13.71172	0.8614429	0.7484584	0.6961057	-0.05235277
0.019946	0.01653	17.81747	17.00144	0.8339088	0.7376712	0.6338819	-0.1037893
0.036335	0.01338	18.73585	14.39672	0.8905993	0.7836776	0.8593919	0.07571433
0.018469	0.02049	16.88527	17.33557	0.8270481	0.745638	0.828603	0.08296499
0.040148	0.00332	24.78413	13.96339	0.8377024	0.7332413	0.6468567	-0.08638461
0.049763	0.00834	20.78685	13.03093	0.0182055	0.0998462	0.2056426	0.1057963
0.01073	0.00605	22.17969	19.69388	0.7754813	0.6897529	0.7628834	0.07313042
0.018775	0.01689	17.72272	17.26426	0.9012001	0.9527058	0.8970926	-0.05561322
0.047303	0.00087	30.59623	13.25112	0.8516269	0.6674767	0.5821435	-0.0853331
0.004038	0.00189	27.24066	23.93875	0.4847915	0.3380186	0.4578269	0.1198083
0.016056	0.00089	30.48724	17.94375	0.8083599	0.6627738	0.7437098	0.08093602
0.007033	0.0408	13.89294	21.52865	0.6342993	0.6879777	0.6048753	-0.08310234
0.000444	6.93E-06	51.59252	33.52601	0.7911019	0.6281035	0.7054236	0.07732007
0.000682	0.00079	31.03676	31.66101	0.0551606	0.3628927	0.5770708	0.2141781
0.003131	0.0072	21.42795	25.04361	0.4743504	0.3126939	0.4722188	0.159525
0.000107	0.00079	30.9978	39.71721	0.6793117	0.7481081	0.6604818	-0.08762638
0.022477	0.02578	15.88723	16.48256	0.7645928	0.6742442	0.5817196	-0.09252467
0.00166	0.00155	28.09932	27.79908	0.7465266	0.7998924	0.7397271	-0.06016527
0.045421	0.00162	27.90904	13.42747	0.8739071	0.7313806	0.7960575	0.06467687
0.002618	0.00024	36.24177	25.82101	0.7849533	0.584377	0.7154478	0.1310708
0.001721	0.00071	31.47456	27.64264	0.8263763	0.911754	0.8467694	-0.0649846
0.000956	0.00116	29.36483	30.19404	0.5381653	0.6590716	0.5333375	-0.125734
0.004716	0.00071	31.50332	23.26386	0.7243715	0.5259735	0.6635814	0.1376079
0.000387	6.37E-07	61.96137	34.12341	0.8763016	0.6187345	0.4030105	-0.2157241
0.039377	0.02615	15.82556	14.04759	0.0822486	0.1800754	0.2766981	0.09662269
0.033679	0.00262	25.82102	14.72636	0.3717243	0.4683788	0.5564401	0.08806128
0.008004	0.00211	26.75162	20.96718	0.8651802	0.7416379	0.8314844	0.08984654
0.021677	0.00484	23.14861	16.63992	0.7943707	0.6740087	0.7580912	0.08408246
0.001594	0.00073	31.34659	27.97512	0.7451679	0.8696023	0.7510769	-0.1185253
0.001563	0.00501	23.00585	28.05935	0.7774328	0.8525695	0.7656295	-0.08694
0.017262	0.00477	23.21677	17.6291	0.7493425	0.5922255	0.7096706	0.1174451
0.003512	0.00153	28.15074	24.54502	0.1412169	0.0770817	0.1290313	0.05194964
0.018014	0.01748	17.57557	17.44399	0.7897705	0.7312	0.7873212	0.05612118
0.031157	0.00263	25.80483	15.06439	0.0286022	0.1711275	0.2370453	0.06591786
0.029414	0.02766	15.58223	15.3144	0.9130946	0.6549714	0.4239571	-0.2310143
0.000446	3.67E-05	44.35464	33.50265	0.2055818	0.0933928	0.1731475	0.07975473
0.010227	6.69E-05	41.74491	19.90269	0.7958485	0.6130527	0.6957939	0.0827412
0.025294	0.00027	35.69402	15.96989	0.8337607	0.7175685	0.7715755	0.05400704
0.005596	0.00026	35.93356	22.52157	0.9025434	0.8037366	0.7336832	-0.07005344
0.010656	0.00574	22.40853	19.72409	0.5909774	0.7060472	0.6115967	-0.09445052
0.00351	0.00856	20.67623	24.5472	0.6503069	0.7164023	0.638532	-0.07787027
6.21E-05	0.00021	36.87426	42.06852	0.668462	0.771605	0.6540492	-0.1175559
0.004656	0.00923	20.34611	23.31973	0.837919	0.6993559	0.8382183	0.1388624
0.013335	0.00802	20.9569	18.74997	0.818776	0.7339085	0.8028072	0.06889871

1.57E-06	1.03E-06	59.86064	58.02903	0.1558556	0.0773628	0.147993	0.07063014
3.26E-05	0.0005	33.05212	44.86796	0.749814	0.8140032	0.725094	-0.08890922
0.000438	0.00147	28.32349	33.5861	0.6769301	0.8192456	0.6409358	-0.1783097
0.006228	0.00978	20.09879	22.05676	0.307037	0.2090263	0.3173967	0.1083704
0.016198	0.0114	19.4304	17.90549	0.0468462	0.1627878	0.0625574	-0.1002304
0.020215	0.00048	33.22912	16.94335	0.3070742	0.6329941	0.7639941	0.131
0.016312	0.01541	18.12314	17.87493	0.2217466	0.3248409	0.3823798	0.05753893
0.011793	0.0021	26.77004	19.28367	0.5826699	0.6663826	0.6052846	-0.06109789
0.001274	0.00106	29.73783	28.94998	0.8757669	0.8149381	0.8733335	0.05839536
0.040671	0.00227	26.44784	13.90716	0.894713	0.6919295	0.6063692	-0.08556028
0.000924	0.00459	23.38241	30.34277	0.5644066	0.6395822	0.5232121	-0.1163701
0.013988	0.00498	23.02343	18.54251	0.2083228	0.1473644	0.1981337	0.05076933
0.04991	0.0074	21.30543	13.0181	0.1518603	0.2865908	0.209444	-0.07714672
0.007488	0.00186	27.30325	21.25623	0.8183828	0.656746	0.5431687	-0.1135773
0.028216	0.00252	25.98125	15.49497	0.7922771	0.621496	0.7237624	0.1022664
0.001501	0.0002	36.95259	28.23489	0.3954058	0.5308003	0.3959904	-0.13481
0.000226	6.47E-05	41.89256	36.46698	0.2733091	0.1609953	0.2532492	0.09225382
0.035608	0.01662	17.79309	14.4845	0.7374895	0.808826	0.7473646	-0.06146138
0.011418	0.00205	26.87469	19.42403	0.9083725	0.7386963	0.6223213	-0.116375
0.00247	0.00467	23.30894	26.0737	0.1547461	0.0739074	0.149872	0.07596459
0.019443	2.68E-05	45.717	17.11226	0.8033544	0.701418	0.6106415	-0.09077652
0.00127	0.00023	36.35814	28.96259	0.5913604	0.7120861	0.6255316	-0.0865546
0.048954	1.98E-05	47.03505	13.10209	0.1656172	0.5634854	0.4701414	-0.09334397
5.75E-05	0.00144	28.42123	42.40253	0.6243572	0.772738	0.5485526	-0.2241854
0.00087	2.28E-05	46.41147	30.60637	0.8222954	0.7002031	0.7903358	0.09013274
0.032237	0.00173	27.61571	14.91644	0.7203249	0.867923	0.7980194	-0.06990359
0.000624	0.00135	28.70649	32.0492	0.7265124	0.794667	0.724678	-0.06998898
0.026233	0.04005	13.97431	15.81148	0.7973351	0.8971319	0.7838945	-0.1132374
0.015873	3.32E-05	44.79157	17.99339	0.0641873	0.1430443	0.2029687	0.05992433
0.007933	0.00448	23.48278	21.00559	0.2036269	0.1261	0.1956521	0.06955215
0.032762	0.01244	19.05314	14.84636	0.5983751	0.7075423	0.6315848	-0.07595747
0.006305	0.01401	18.53566	22.00324	0.8717138	0.7523406	0.624677	-0.1276636
0.00153	0.00423	23.73857	28.15252	0.7072152	0.826037	0.6781263	-0.1479107
0.028982	0.04693	13.28574	15.37873	0.7507158	0.8143629	0.7440587	-0.07030421
0.042522	0.00341	24.66616	13.71383	0.8305502	0.6743956	0.7442269	0.06983127
0.001703	0.01316	18.80874	27.68742	0.5992507	0.685228	0.5563288	-0.1288992
6.72E-06	3.31E-05	44.80048	51.72377	0.7821653	0.8737926	0.7778919	-0.09590072
0.047791	0.01501	18.23547	13.20654	0.7248065	0.6290197	0.6967884	0.06776866
0.000776	1.04E-05	49.83412	31.10064	0.4449198	0.5490196	0.6027134	0.05369383
0.000659	0.00443	23.53792	31.8125	0.7116756	0.7992205	0.70117	-0.09805053
0.007802	0.04393	13.57219	21.07784	0.7122365	0.7692674	0.680534	-0.08873337
0.020942	0.00455	23.42249	16.78983	0.782946	0.5793803	0.4536419	-0.1257384
0.010969	0.00296	25.28876	19.59824	0.890764	0.835131	0.75932	-0.07581104
0.029265	0.02244	16.48982	15.33657	0.8835794	0.7598052	0.6485815	-0.1112237
0.000471	0.0004	34.02806	33.26786	0.8235962	0.9192664	0.8245761	-0.09469029
0.029097	0.01097	19.59815	15.36147	0.7510239	0.56977	0.4442665	-0.1255035
0.000382	0.00048	33.16069	34.17875	0.5209941	0.6724744	0.5341115	-0.1383629
0.002268	0.0154	18.1258	26.44289	0.6221161	0.6810839	0.5938562	-0.08722776
0.01405	0.0026	25.84759	18.52335	0.7827488	0.8658729	0.8128176	-0.05305532
0.044735	0.02336	16.31543	13.49354	0.6951637	0.4717295	0.6496353	0.1779058
0.026424	0.01439	18.41847	15.77997	0.5643216	0.4922932	0.5658486	0.07355547
0.001594	0.00023	36.39828	27.97589	0.6590478	0.49417	0.6145468	0.1203768
0.01503	0.00034	34.7442	18.23037	0.4646211	0.3555779	0.4235347	0.0679568
0.000649	0.0025	26.01542	31.8792	0.7372207	0.8298957	0.7151566	-0.1147391



0.020046	0.00085	30.68484	16.97965	0.7404081	0.609925	0.5087878	-0.1011371
0.002426	0.00224	26.4999	26.15074	0.1477077	0.07969	0.1460127	0.06632268
0.044982	0.00159	27.98461	13.46964	0.637351	0.5137317	0.5783806	0.06464887
0.000698	0.00145	28.38273	31.55877	0.7309139	0.875621	0.7341865	-0.1414345
0.003012	0.0281	15.51296	25.21132	0.7926159	0.843795	0.758413	-0.08538202
0.020402	0.0371	14.30605	16.90337	0.7116823	0.7966835	0.6921459	-0.1045376
0.00568	0.0003	35.25383	22.45676	0.2863013	0.1689226	0.3355979	0.1666753
0.006248	0.00319	24.9625	22.04257	0.2640359	0.1296097	0.2199118	0.09030208
0.00139	0.00525	22.80206	28.5685	0.3807702	0.458537	0.3551691	-0.1033679
0.005523	0.00116	29.37259	22.57826	0.7905422	0.7063866	0.7763895	0.07000284
0.041943	0.01447	18.39474	13.77344	0.8609134	0.7485034	0.8225999	0.07409645
3.18E-05	8.75E-06	50.57819	44.97768	0.0869282	0.0262327	0.0775214	0.05128864
0.000201	0.00012	39.04089	36.96411	0.2760723	0.1762156	0.2645983	0.08838262
0.000374	0.001	30.00809	34.27015	0.7181134	0.8366739	0.7258501	-0.1108237
0.035568	0.03288	14.83108	14.48935	0.8568363	0.768883	0.8516313	0.08274834
0.006051	0.00165	27.82402	22.1815	0.8606673	0.9359526	0.8793379	-0.05661469
0.00998	0.00806	20.93505	20.00855	0.8631502	0.7856083	0.7014409	-0.08416737
0.034383	3.17E-05	44.99079	14.63657	0.8893427	0.7062852	0.6442868	-0.06199843
0.020793	0.00267	25.73829	16.82088	0.49259	0.4281298	0.4920461	0.06391635
0.007446	0.04341	13.62402	21.28083	0.9043577	0.7978342	0.6358169	-0.1620173
0.033024	0.00806	20.93815	14.81167	0.8821721	0.7320583	0.643456	-0.08860226
0.003619	0.00433	23.63544	24.41454	0.8576804	0.9305319	0.864508	-0.06602387
5.33E-05	7.82E-06	51.06668	42.73657	0.0947866	0.0230224	0.086879	0.06385662
0.018937	6.04E-05	42.19232	17.22691	0.8571957	0.7135972	0.7765692	0.06297208
0.025865	0.00355	24.50269	15.87295	0.065292	0.4611048	0.6350148	0.17391
0.00281	0.00047	33.26508	25.51272	0.2132982	0.1089901	0.1844257	0.07543561
0.033135	0.00023	36.34292	14.7972	0.8951221	0.8357579	0.7776445	-0.05811337
0.000187	0.0021	26.78585	37.27318	0.5749812	0.6602507	0.5339184	-0.1263323
0.046707	0.03907	14.08101	13.30614	0.7638218	0.8508322	0.7740908	-0.07674139
0.010399	0.00375	24.26408	19.83012	0.7919444	0.6852704	0.765021	0.07975065
0.007745	0.00895	20.47992	21.10962	0.4113579	0.6074373	0.4101914	-0.1972459
0.05005	0.00658	21.82096	13.00597	0.8194425	0.7086878	0.6526268	-0.05606104
3.64E-05	6.23E-05	42.05835	44.38905	0.6386248	0.7210092	0.6285642	-0.09244503
8.92E-06	1.74E-06	57.60514	50.49783	0.1732862	0.098744	0.164151	0.06540698
0.014522	0.00263	25.79946	18.37976	0.8203729	0.7346126	0.7925797	0.05796707
5.17E-05	2.38E-05	46.23904	42.86189	0.213848	0.1135429	0.1931825	0.0796396
0.022745	0.00663	21.7877	16.43121	0.8376645	0.7195382	0.6431967	-0.07634152
0.000994	0.00023	36.47803	30.02611	0.8429344	0.9273245	0.8653309	-0.06199367
0.036721	0.02412	16.17566	14.35091	0.2015625	0.1218439	0.190738	0.06889407
0.024879	0.02593	15.86174	16.04164	0.744951	0.8376256	0.7447842	-0.09284145
0.034012	0.0114	19.42986	14.68365	0.5911276	0.4511665	0.5425021	0.09133558
0.003376	1.54E-05	48.11766	24.71544	0.7816304	0.6419356	0.7007109	0.05877524
0.027625	0.01867	17.2894	15.58697	0.2627532	0.1359062	0.2451381	0.109232
0.028848	0.01626	17.88887	15.39885	0.7950119	0.6880944	0.7722675	0.08417311
0.04302	0.04705	13.27445	13.6633	0.8207238	0.7174159	0.6120333	-0.1053825
0.006706	0.00197	27.05932	21.73549	0.1225858	0.0604216	0.1151547	0.05473315
0.002608	0.02296	16.39084	25.83761	0.1515285	0.0921218	0.1690671	0.07694528
0.022999	0.00154	28.11345	16.383	0.699513	0.528792	0.6230881	0.09429612
0.000733	0.00026	35.78101	31.35027	0.2309036	0.0949026	0.2194878	0.1245852
0.019915	0.03525	14.52898	17.00823	0.501318	0.5584115	0.4914636	-0.06694787
0.022185	7.71E-05	41.13088	16.53939	0.1793632	0.2903718	0.3596167	0.06924488
0.033176	1.17E-05	49.31235	14.79178	0.4575902	0.7201437	0.7705536	0.05040991
0.009449	0.00541	22.67078	20.24625	0.7799137	0.8938123	0.7979294	-0.09588289
0.00084	0.00077	31.12521	30.75585	0.176679	0.085673	0.150248	0.06457502

0.017879	0.00584	22.33626	17.47663	0.2716388	0.1933288	0.2570515	0.06372264
0.045293	1.85E-05	47.32932	13.43966	0.7850007	0.6198536	0.5398017	-0.08005183
0.001177	9.57E-05	40.19091	29.29229	0.1804374	0.0911617	0.1539106	0.06274886
0.021494	7.67E-05	41.1509	16.67682	0.919436	0.7224715	0.6266389	-0.09583267
0.00092	0.00949	20.22853	30.36424	0.765404	0.867353	0.7239917	-0.1433613
0.038752	0.03316	14.79369	14.11705	0.8937936	0.7357391	0.5956166	-0.1401225
0.00022	6.82E-06	51.66124	36.57222	0.4636467	0.396474	0.4566173	0.06014331
0.04657	0.04055	13.92008	13.31896	0.9048271	0.7896982	0.8986687	0.1089705
0.004225	0.00017	37.66398	23.74186	0.5679492	0.8602585	0.6656649	-0.1945937
0.016407	0.02927	15.33598	17.84973	0.8828227	0.7467316	0.5942115	-0.1525201
0.011799	0.02173	16.63012	19.28154	0.8454849	0.7711564	0.8573942	0.08623775
0.028418	0.00351	24.54927	15.46406	0.7987995	0.6497608	0.7551899	0.1054291
0.001181	0.00482	23.16909	29.27831	0.6161346	0.714501	0.5862259	-0.1282752
0.028662	0.00713	21.47115	15.42695	0.8522286	0.7534872	0.8175917	0.06410448
0.005994	0.01195	19.22455	22.22297	0.6770411	0.7551696	0.6682863	-0.08688335
0.004842	0.00129	28.88586	23.1499	0.813251	0.5780038	0.7384986	0.1604948
0.006827	0.00035	34.58505	21.65777	0.049302	0.3165024	0.1677777	-0.1487247
0.031317	1.28E-05	48.91821	15.04219	0.7795599	0.5937056	0.5336904	-0.06001521
0.011228	0.00284	25.46647	19.49689	0.7933633	0.6728681	0.7625015	0.08963347
0.011062	0.00186	27.30907	19.56173	0.6809891	0.7634847	0.7073203	-0.05616438
1.88E-06	1.70E-08	77.69223	57.25422	0.646832	0.7725484	0.6392984	-0.1332501
0.041159	0.02702	15.68239	13.8554	0.133753	0.2236004	0.3071283	0.08352788
0.000221	0.00011	39.63176	36.54971	0.1938519	0.1131271	0.1942976	0.08117046
9.55E-05	0.00011	39.67469	40.20211	0.1197546	0.0657885	0.1198781	0.05408956
1.17E-05	0.00028	35.49226	49.30816	0.8259999	0.915868	0.8282338	-0.08763418
0.028051	0.02283	16.41517	15.52046	0.8447054	0.7592724	0.67599	-0.08328232
0.005635	0.00101	29.94636	22.49142	0.1940996	0.3610281	0.5018234	0.1407953
0.019855	0.01854	17.31775	17.02136	0.1420085	0.0872162	0.1462812	0.05906495
0.008548	0.00047	33.23889	20.68142	0.0806334	0.1781209	0.1247159	-0.05340504
0.036859	8.57E-07	60.66808	14.33452	0.1002455	0.4690837	0.5593145	0.09023084
0.000908	0.0002	36.93494	30.42146	0.8885407	0.7853054	0.8597194	0.07441401
0.015611	0.00972	20.12404	18.06572	0.2556615	0.1291897	0.2349912	0.1058015
0.017401	0.00296	25.29346	17.59415	0.5577314	0.4466373	0.356319	-0.09031825
0.001654	0.00057	32.47289	27.81388	0.0889756	0.3096754	0.4838907	0.1742153
0.000636	0.0009	30.43407	31.96646	0.3704451	0.1695054	0.3570686	0.1875631
0.010481	0.00863	20.64199	19.79603	0.8796049	0.9463194	0.8816301	-0.06468937
0.000681	0.00111	29.55793	31.66785	0.2930546	0.1907688	0.2997479	0.1089791
0.046264	1.30E-05	48.85628	13.34761	0.221364	0.4999093	0.4408946	-0.05901478
0.000307	0.00054	32.69311	35.12504	0.8510154	0.9350462	0.8399743	-0.09507189
0.000958	0.00197	27.04677	30.18569	0.6988361	0.4659763	0.6942033	0.228227
9.98E-05	0.0001	39.80149	40.00855	0.6407545	0.7236845	0.6406736	-0.08301088
0.004988	0.01244	19.05285	23.02048	0.3674135	0.5703475	0.3100338	-0.2603137
0.001044	0.00058	32.37685	29.81183	0.8306071	0.7493501	0.8223619	0.07301172
0.007701	0.00204	26.91037	21.13474	0.8830764	0.8178021	0.8761302	0.058328
0.016078	0.00037	34.3561	17.93764	0.1317153	0.2923649	0.3494787	0.05711378
0.04703	0.01414	18.4958	13.27624	0.9012454	0.6305446	0.4695162	-0.1610284
0.012324	0.01405	18.52174	19.09255	0.8587292	0.7845026	0.6976946	-0.08680802
0.005673	0.01204	19.19462	22.46178	0.7115784	0.8256201	0.7057549	-0.1198652
0.001051	0.00809	20.91867	29.78535	0.6041921	0.66947	0.5733446	-0.09612542
0.003972	0.0034	24.68583	24.00953	0.2372859	0.149715	0.220471	0.07075592
0.00325	0.00328	24.84343	24.88166	0.9097341	0.8499711	0.9143803	0.06440923
0.023283	0.00679	21.67863	16.32954	0.83468	0.763183	0.6930467	-0.07013621
0.001642	0.00612	22.13451	27.84756	0.0515093	0.1605918	0.3266954	0.1661036
0.018166	0.03255	14.8744	17.40747	0.6423675	0.7441397	0.6246096	-0.1195302

0.000106	0.00312	25.0551	39.74462	0.6623045	0.7189291	0.6167874	-0.1021417
0.025198	0.02361	16.26994	15.98625	0.5064507	0.6187081	0.5190744	-0.09963376
0.001011	0.00067	31.73898	29.9521	0.2181527	0.1103553	0.1959869	0.08563164
0.036678	0.01491	18.26406	14.35598	0.6943249	0.7675095	0.7138085	-0.05370102
0.01931	0.01785	17.48352	17.14218	0.5259296	0.6569269	0.5333256	-0.1236013
0.001052	8.32E-05	40.79698	29.78025	0.1912197	0.0888884	0.1608541	0.07196571
0.016904	0.00303	25.18687	17.72014	0.9231559	0.8030564	0.8704909	0.06743454
0.014911	0.0108	19.66538	18.26508	0.8158926	0.7524835	0.8124225	0.05993893
0.029671	8.41E-07	60.75386	15.27671	0.5788574	0.7166963	0.6474874	-0.06920883
0.045619	0.01887	17.24287	13.40858	0.8940161	0.7703488	0.6654872	-0.1048616
0.012851	0.01218	19.14315	18.91059	0.8117023	0.8689505	0.8052588	-0.0636917
0.040732	0.0037	24.32067	13.90069	0.3427286	0.5203216	0.4247715	-0.09555015
0.001139	0.00245	26.11675	29.43664	0.7814505	0.8489886	0.7492458	-0.09974283
0.00147	1.03E-05	49.89037	28.32711	0.2399623	0.1182068	0.1903303	0.07212351
0.016552	9.25E-06	50.33691	17.81154	0.1438127	0.0765575	0.131069	0.05451147
0.046945	0.01107	19.56027	13.28411	0.0705255	0.2000087	0.272309	0.07230027
0.002298	0.0045	23.4661	26.3868	0.6768438	0.7715337	0.6736801	-0.09785352
0.012732	0.01527	18.16027	18.95099	0.0347772	0.0923677	0.0326906	-0.05967712
0.04705	0.00015	38.33108	13.27444	0.6578631	0.4529825	0.5365646	0.08358204
0.011844	0.01354	18.68359	19.26514	0.7862303	0.7117866	0.7858509	0.07406428
0.000888	0.00127	28.95313	30.51614	0.1644954	0.1070929	0.1736584	0.06656547
0.000476	3.94E-06	54.04852	33.22228	0.7723817	0.8446664	0.7868488	-0.05781768
0.0404	0.04427	13.53855	13.93621	0.8736423	0.7959982	0.7111301	-0.08486806
0.015177	0.00557	22.53925	18.18802	0.8705682	0.69565	0.8262303	0.1305803
0.016761	0.01522	18.17466	17.757	0.8652757	0.7993261	0.8624895	0.0631634
0.039156	0.02586	15.87302	14.07206	0.4046309	0.485112	0.4163028	-0.06880924
0.003955	0.01507	18.21808	24.02815	0.8194274	0.8735532	0.7978647	-0.07568842
0.02399	0.0046	23.36997	16.19977	0.8860308	0.7586364	0.8418264	0.08319008
0.002251	0.03435	14.64017	26.47536	0.7866594	0.8554247	0.7532852	-0.1021395
0.010849	0.01013	19.94477	19.64611	0.1843708	0.2538491	0.189496	-0.06435316
0.002158	0.0003	35.26961	26.65893	0.8625346	0.9402146	0.8862917	-0.05392285
0.000869	0.00024	36.22732	30.61134	0.7504253	0.8647804	0.7712153	-0.09356507
0.008471	0.00348	24.5806	20.72045	0.4193662	0.2343329	0.3293574	0.09502442
0.029145	0.01241	19.06273	15.35433	0.2252852	0.1452071	0.2031384	0.05793127
0.00585	0.0002	37.06978	22.32808	0.6848443	0.7528312	0.6954612	-0.05737002
0.002406	0.00272	25.65148	26.18655	0.1140453	0.0565177	0.1072363	0.05071864
0.034691	0.01177	19.29131	14.59777	0.9095596	0.8024857	0.6773571	-0.1251286
0.019634	0.0001	39.89239	17.07001	0.1356249	0.0696511	0.1468455	0.07719442
0.013934	0.03041	15.16992	18.5594	0.8614855	0.7125357	0.5398829	-0.1726527
0.049771	0.00243	26.1451	13.03022	0.7498279	0.6073881	0.6684608	0.06107278
0.000542	1.01E-06	59.94384	32.65965	0.8463625	0.677909	0.6028593	-0.07504962
0.044169	0.00034	34.65908	13.54879	0.4508073	0.6156408	0.6948133	0.07917245
7.46E-05	1.92E-05	47.1689	41.2715	0.1479867	0.0624172	0.1385163	0.07609916
0.0312	0.00195	27.10542	15.05839	0.0462486	0.5446533	0.711529	0.1668757
0.027463	0.00507	22.95164	15.61246	0.7409552	0.6049004	0.5144758	-0.0904246
0.008853	2.34E-07	66.31213	20.52893	0.2773196	0.6029617	0.5518166	-0.05114502
0.037839	0.04073	13.90086	14.22061	0.5140005	0.6315882	0.5110014	-0.1205867
0.024615	0.00589	22.29976	16.08792	0.9121503	0.8600964	0.800089	-0.06000739
0.001794	0.00996	20.0187	27.46197	0.8249404	0.7620417	0.6790285	-0.08301319
0.004603	0.02309	16.36612	23.36978	0.9349541	0.8705034	0.7388747	-0.1316286
0.041991	0.00778	21.08978	13.76847	0.8471365	0.7274857	0.6472132	-0.08027258
0.003531	0.0019	27.21087	24.52136	0.1148355	0.0421741	0.0962015	0.05402745
0.000214	0.00021	36.761	36.69709	0.710577	0.8063006	0.7128209	-0.09347969
0.011965	0.00214	26.69464	19.22085	0.2640511	0.1836172	0.2565691	0.07295188

0.007104	1.67E-06	57.77407	21.48517	0.3378139	0.698406	0.7916786	0.09327262
0.020131	1.55E-07	68.10215	16.96128	0.1640259	0.8622108	0.7742736	-0.08793716
0.043798	0.00164	27.85551	13.58547	0.4848438	0.4180639	0.5024	0.08433608
0.002964	0.00199	27.01906	25.28101	0.8157027	0.925976	0.8222747	-0.1037013
0.000548	0.00087	30.5876	32.6152	0.9028536	0.9631647	0.8978356	-0.06532907
0.015988	0.02722	15.65091	17.96213	0.0501487	0.1065638	0.0423204	-0.06424337
8.39E-05	7.86E-06	51.04682	40.76352	0.1387445	0.0582141	0.1168908	0.05867676
0.023555	0.02466	16.08021	16.27917	0.2027434	0.1155196	0.2099163	0.0943967
0.014195	0.00013	38.72708	18.47859	0.8170948	0.7334142	0.7858728	0.05245848
0.039739	0.01236	19.07891	14.00786	0.7848064	0.7123401	0.6484027	-0.06393734
0.005108	0.00206	26.85641	22.91743	0.0503467	0.2785647	0.1302618	-0.1483028
0.020486	0.01681	17.74428	16.88538	0.9266299	0.8039268	0.6682316	-0.1356952
0.000829	0.00182	27.39755	30.81395	0.1713166	0.1062685	0.1779379	0.0716694
0.001247	0.00012	39.07742	29.0401	0.6225439	0.6911407	0.592204	-0.0989366
0.04918	0.00073	31.33883	13.08214	0.9014798	0.7143328	0.6524541	-0.06187863
0.018103	0.02996	15.2341	17.42245	0.6798311	0.8038254	0.6634143	-0.1404111
0.042404	0.01353	18.6855	13.72593	0.875553	0.7650732	0.6885598	-0.07651342
0.000462	4.48E-05	43.48879	33.35268	0.7773528	0.8851915	0.7926192	-0.09257227
0.038726	0.00379	24.21789	14.11999	0.0951803	0.2596	0.3623182	0.1027182
0.042636	0.0492	13.08057	13.70227	0.9604482	0.8779755	0.7946442	-0.08333133
0.001256	0.0044	23.56708	29.01023	0.8696585	0.9431396	0.8644884	-0.07865122
0.018016	0.00183	27.36517	17.44339	0.1727779	0.0985181	0.1500044	0.05148632
0.041604	0.00832	20.79817	13.8087	0.5742068	0.4670826	0.5292346	0.06215202
0.001486	0.00011	39.65769	28.27921	0.1893249	0.4226388	0.5771793	0.1545405
0.012745	0.0467	13.30693	18.94652	0.8849708	0.9377412	0.8661767	-0.07156456
0.009565	0.00788	21.03333	20.19312	0.8462371	0.9355977	0.8655347	-0.07006302
0.002897	0.00081	30.8906	25.38023	0.7278389	0.6305418	0.719807	0.08926518
0.006351	0.0064	21.94151	21.97151	0.8833667	0.691312	0.5324367	-0.1588753
0.000598	0.01272	18.95639	32.23014	0.5689376	0.6865672	0.4937616	-0.1928056
0.019077	0.00398	23.99929	17.19501	0.2233698	0.0691094	0.1696277	0.1005184
0.019708	0.00089	30.52123	17.0536	0.8401856	0.7276942	0.605743	-0.1219512
0.020073	0.0186	17.30475	16.97385	0.8880915	0.802485	0.8880176	0.08553255
0.003439	0.02443	16.1202	24.63613	0.310638	0.2482786	0.3603807	0.112102
0.001099	0.00077	31.15014	29.58809	0.7428685	0.8757697	0.7698365	-0.1059331
0.000593	0.00762	21.18163	32.2711	0.8294817	0.9135237	0.7778693	-0.1356543
7.27E-05	0.00017	37.75692	41.38282	0.8499512	0.7735407	0.8557693	0.08222867
0.035784	0.00087	30.59718	14.46314	0.7872488	0.5775054	0.6499363	0.07243083
0.001045	0.00032	34.90621	29.80924	0.8492771	0.9280656	0.8719071	-0.05615847
0.009436	0.00739	21.31316	20.25212	0.8051955	0.7442397	0.808517	0.06427724
0.04438	0.00424	23.72348	13.52811	0.58504	0.6998941	0.7619423	0.06204821
0.000155	0.0003	35.27818	38.09612	0.5324017	0.7465475	0.549796	-0.1967515
0.031756	0.00824	20.84286	14.98173	0.8715666	0.7644609	0.8305603	0.06609944
0.035742	0.02122	16.7316	14.46822	0.8926374	0.8331047	0.8845838	0.05147914
0.015692	0.0072	21.42469	18.04315	0.8000305	0.7033525	0.7846158	0.08126333
0.000902	8.41E-06	50.75381	30.45007	0.0910004	0.2062216	0.2685828	0.0623612
0.003906	0.00233	26.32419	24.08319	0.7356651	0.8805806	0.7720159	-0.1085646
0.032322	0.00178	27.48558	14.90503	0.8783583	0.5974839	0.7064885	0.1090046
0.019304	0.00321	24.94044	17.14344	0.7826065	0.7039437	0.6250668	-0.0788769
0.020253	0.00901	20.45075	16.93511	0.7834235	0.7042722	0.6359112	-0.0683609
0.001677	0.00039	34.13026	27.75372	0.6659318	0.7677027	0.6902923	-0.0774104
0.042122	0.02562	15.91475	13.75494	0.7757553	0.6792964	0.7594591	0.08016272
0.02786	0.03049	15.15815	15.55021	0.2481623	0.4403141	0.5526193	0.1123052
0.006405	0.00426	23.70631	21.93508	0.3037175	0.1781746	0.2920926	0.113918
0.033348	0.01131	19.46522	14.76934	0.3009953	0.2047927	0.2778677	0.07307499

0.049286	0.00012	39.18904	13.0728	0.8590991	0.6769303	0.6066775	-0.07025285
0.043474	0.02056	16.87073	13.61773	0.6569871	0.6031377	0.5439848	-0.05915295
0.012953	0.02873	15.41592	18.87628	0.5513309	0.6432399	0.5318413	-0.1113986
0.008894	0.00385	24.1445	20.50883	0.2012945	0.1138529	0.1697023	0.05584937
0.007124	1.78E-07	67.50706	21.47253	0.1614833	0.3698549	0.4847133	0.1148583
0.033127	1.07E-05	49.70182	14.79817	0.8911401	0.7622392	0.6696316	-0.09260754
0.041843	0.00612	22.13064	13.78381	0.0756317	0.4243642	0.5838103	0.1594461
0.013715	0.04277	13.68892	18.62791	0.5996299	0.5200903	0.5822688	0.06217851
0.036638	0.01226	19.11559	14.36069	0.8571275	0.9211299	0.8697812	-0.05134878
0.009247	0.01899	17.21362	20.3401	0.716229	0.8131533	0.6944461	-0.1187071
0.045838	0.00955	20.20078	13.38771	0.9128231	0.8088549	0.8659483	0.05709336
0.024812	0.04926	13.07533	16.05342	0.8341562	0.8893619	0.8214573	-0.06790459
0.011234	0.03391	14.69684	19.49463	0.7987512	0.8619179	0.776457	-0.08546091
0.000438	1.68E-05	47.75751	33.58308	0.8876184	0.9409777	0.8866087	-0.05436896
0.028267	7.58E-05	41.20327	15.48713	0.9303212	0.8629403	0.792763	-0.07017732
0.000132	0.00044	33.51893	38.7826	0.6589866	0.7610912	0.6542538	-0.1068375
0.010331	0.00142	28.46677	19.85851	0.0450213	0.4856642	0.6830014	0.1973372
0.026081	0.00106	29.7353	15.83668	0.9052019	0.8482959	0.7805887	-0.06770717
0.005794	0.00031	35.14003	22.37057	0.2633099	0.3937995	0.4872729	0.09347343
0.000468	0.00032	34.91405	33.29319	0.286832	0.0672152	0.2693969	0.2021817
0.000337	7.16E-08	71.45116	34.71981	0.4630224	0.8045967	0.7227299	-0.08186684
0.01179	0.0132	18.79345	19.28485	0.8425593	0.9089254	0.8453068	-0.06361861
0.001628	0.00543	22.64808	27.88225	0.5159094	0.6148443	0.4926547	-0.1221896
0.004146	0.00382	24.18314	23.82361	0.1595048	0.0805479	0.1714641	0.0909162
0.006218	0.01287	18.90311	22.06383	0.9304403	0.8453022	0.6810965	-0.1642057
1.22E-05	7.33E-06	51.34796	49.12057	0.9127708	0.8441854	0.9177437	0.07355839
0.020999	0.00594	22.26578	16.77808	0.839702	0.9150774	0.856228	-0.05884946
0.043856	0.00021	36.75657	13.57972	0.2891926	0.5291096	0.452832	-0.07627766
0.002392	0.0089	20.50405	26.21322	0.43356	0.3192639	0.4441431	0.1248791
0.03406	0.02744	15.61653	14.6775	0.7513244	0.6336099	0.5233521	-0.1102578
0.005849	0.00037	34.3177	22.32927	0.6686444	0.5379515	0.6188355	0.08088395
0.032477	0.02385	16.22427	14.88422	0.8492829	0.9180491	0.8588998	-0.05914934
0.00357	0.00066	31.78949	24.47316	0.1239483	0.0513902	0.1098306	0.05844038
0.024519	0.00051	32.89334	16.10502	0.6934986	0.5657974	0.5012681	-0.06452929
0.023266	0.00406	23.91895	16.33275	0.4770639	0.3666913	0.4395596	0.07286831
0.030412	2.31E-06	56.35962	15.16953	0.3372626	0.7377423	0.8135328	0.07579051
0.001046	0.01115	19.52849	29.80555	0.2183922	0.1568993	0.2191631	0.06226375
0.021104	0.01778	17.50033	16.75635	0.717718	0.617562	0.5202678	-0.09729426
0.028859	0.0019	27.20606	15.39716	0.8171566	0.6461387	0.5544241	-0.09171458
0.016579	0.00697	21.5671	17.80436	0.8267186	0.7133772	0.7974218	0.08404458
0.004572	0.00527	22.77816	23.39918	0.8714123	0.7257407	0.8599657	0.1342251
0.045874	0.00906	20.42886	13.38436	0.7836604	0.5709247	0.456559	-0.1143657
0.048504	0.00122	29.15254	13.14224	0.7919608	0.5289881	0.6294607	0.1004727
0.034967	0.00215	26.68278	14.56342	0.4283925	0.6407334	0.7334406	0.09270719
0.009062	0.00206	26.86531	20.42788	0.0603062	0.2586263	0.3836052	0.124979
0.030631	0.01854	17.31993	15.13833	0.8906195	0.6931118	0.5444228	-0.1486889
0.000665	0.00183	27.3722	31.77159	0.771458	0.8647115	0.7664222	-0.09828924
0.00396	0.00112	29.49474	24.02275	0.8484952	0.7679154	0.8320398	0.06412445
0.045954	0.00019	37.17414	13.37678	0.8738725	0.6684731	0.591143	-0.07733003
0.036675	0.0313	15.0443	14.35636	0.72388	0.8150505	0.7319881	-0.08306243
0.016917	0.0407	13.90449	17.71689	0.132657	0.2473227	0.3845873	0.1372646
0.00218	0.00162	27.89881	26.61506	0.2378689	0.1206843	0.2130427	0.09235839
0.012913	3.06E-07	65.13829	18.88972	0.8695522	0.7165627	0.7923666	0.07580388
0.00761	0.00088	30.56043	21.18605	0.8270275	0.7116464	0.6172665	-0.09438

0.031182	0.00464	23.3381	15.06092	0.8119463	0.7160968	0.6159912	-0.1001056
0.031532	0.00162	27.89329	15.01249	0.2027369	0.321116	0.3884037	0.06728768
1.86E-05	2.68E-05	45.71807	47.29895	0.7034881	0.7888745	0.6825227	-0.1063518
0.004695	0.00497	23.03211	23.28374	0.2243492	0.1555421	0.2360567	0.08051458
0.000193	3.69E-05	44.33257	37.13531	0.0643989	0.30039	0.4594572	0.1590672
0.010099	0.02805	15.52003	19.95716	0.5530291	0.4867922	0.5699153	0.08312311
0.034401	0.01242	19.05965	14.63433	0.8413943	0.7444524	0.659035	-0.08541737
0.028162	8.19E-05	40.86725	15.50336	0.4322969	0.7235103	0.632872	-0.09063824
0.036649	0.00124	29.04837	14.35934	0.0416355	0.4082144	0.5303854	0.122171
0.042368	0.01123	19.49676	13.72965	0.6013596	0.678582	0.6252186	-0.0533634
0.04158	0.01538	18.13144	13.8112	0.6924155	0.7689081	0.8272331	0.05832497
0.006384	0.00542	22.66163	21.94935	0.201307	0.0970591	0.198342	0.1012829
0.034026	0.00432	23.64633	14.68188	0.8326133	0.743347	0.6591312	-0.08421582
0.045485	0.01406	18.51873	13.42129	0.7882294	0.6695986	0.5802405	-0.08935808
0.025066	3.00E-08	75.22508	16.00916	0.0460556	0.2200445	0.2766637	0.05661918
0.037542	0.01246	19.04541	14.25477	0.8609215	0.7918298	0.8433421	0.05151228
0.007266	6.47E-05	41.88883	21.38725	0.4195086	0.6532949	0.566874	-0.08642095
0.00815	0.00911	20.40347	20.88856	0.7232726	0.779187	0.7155584	-0.06362865
0.011191	0.00138	28.59036	19.51127	0.8365273	0.7363586	0.6075974	-0.1287612
0.032016	0.00427	23.69485	14.9464	0.8270988	0.7065618	0.7733831	0.06682135
0.001414	0.00319	24.96289	28.49495	0.555194	0.6370687	0.5269893	-0.1100794
0.043534	4.56E-06	53.41314	13.61168	0.2962287	0.7191892	0.7955579	0.07636873
0.007353	0.00478	23.20507	21.33514	0.7108132	0.7810455	0.7129821	-0.06806346
2.04E-05	1.47E-05	48.32258	46.90249	0.7589536	0.8699728	0.7623002	-0.1076726
0.046136	0.01053	19.77643	13.35958	0.7667944	0.6460969	0.7276764	0.08157952
0.005003	0.0019	27.22193	23.00779	0.8399014	0.9191919	0.8535704	-0.06562152
0.000443	0.00076	31.21967	33.53186	0.7142834	0.7988912	0.7112561	-0.08763515
0.046336	0.00076	31.19181	13.3408	0.0505142	0.5915828	0.7178402	0.1262574
0.039746	0.00516	22.87557	14.00708	0.8992693	0.8013093	0.8572915	0.05598212
0.031857	0.01338	18.73576	14.96795	0.8137736	0.7443552	0.7985716	0.05421636
0.013472	0.00996	20.01772	18.70571	0.2172752	0.1054236	0.2019132	0.09648962
0.012996	3.16E-05	44.99762	18.86189	0.7439766	0.3905104	0.5386131	0.1481027
0.034481	0.01651	17.82352	14.62417	0.8189144	0.8866464	0.8329193	-0.05372712
0.020628	0.00374	24.27299	16.85548	0.7600255	0.5741744	0.679051	0.1048766
0.036663	0.01039	19.83559	14.35771	0.8607432	0.7283198	0.8245041	0.09618438
0.042236	0.04499	13.46889	13.74315	0.7939574	0.6212921	0.7941935	0.1729015
0.015156	0.0024	26.2006	18.19403	0.8312712	0.7742818	0.6761862	-0.09809559
0.023271	0.00721	21.42216	16.33188	0.5643168	0.4774051	0.3986079	-0.07879724
0.005504	0.00817	20.87796	22.59316	0.5150625	0.5908156	0.5035493	-0.08726633
0.041267	0.03393	14.69478	13.84395	0.6852618	0.7682077	0.6881422	-0.08006549
0.012839	0.01854	17.31971	18.91453	0.6273841	0.687772	0.609861	-0.07791105
0.027096	0.00019	37.23077	15.6709	0.0680058	0.331519	0.4086396	0.07712052
0.017243	0.02782	15.55721	17.6338	0.627915	0.7275939	0.6152171	-0.1123767
0.047976	0.00166	27.79252	13.18978	0.1834689	0.2412569	0.3207961	0.07953917
0.000821	0.00171	27.67699	30.85468	0.8071603	0.8742798	0.7951186	-0.07916115
8.21E-06	0.00113	29.47501	50.85704	0.6412756	0.6993017	0.6404572	-0.05884447
0.040163	0.04618	13.35516	13.96172	0.7420603	0.8278134	0.7412453	-0.08656817
0.010097	0.03088	15.10323	19.95794	0.8377896	0.8896641	0.8196523	-0.07001173
0.011688	0.00574	22.40743	19.32271	0.8436862	0.7541445	0.8318143	0.07766989
0.003585	0.00341	24.67703	24.45454	0.6003861	0.7626936	0.6005138	-0.1621798
0.028768	0.01232	19.09503	15.41093	0.5403668	0.6199308	0.5577971	-0.06213374
0.033831	0.01709	17.67202	14.70688	0.8635864	0.8000884	0.8530185	0.05293007
0.000134	4.45E-05	43.51208	38.72783	0.5769401	0.7107362	0.6161618	-0.09457442
0.015603	0.00438	23.58297	18.06795	0.2326425	0.4300911	0.5598532	0.1297621

0.019768	0.00508	22.93845	17.04035	0.921938	0.7195724	0.599277	-0.1202955
0.007094	0.00055	32.57473	21.49098	0.8111146	0.6777313	0.7640073	0.08627601
0.022691	0.02062	16.85809	16.44144	0.1131639	0.2212377	0.1160827	-0.1051551
5.95E-08	2.61E-07	65.82773	72.25752	0.6605073	0.7957731	0.6692966	-0.1264766
0.044905	0.01071	19.70071	13.47707	0.6191145	0.7255701	0.6532444	-0.07232575
0.036197	0.00766	21.15558	14.41332	0.0474504	0.256484	0.3747472	0.1182632
0.003003	0.00926	20.33172	25.22482	0.5293855	0.589201	0.5079972	-0.0812039
7.01E-05	1.30E-05	48.84969	41.54587	0.5151939	0.74501	0.5589791	-0.1860309
0.008624	0.00958	20.18458	20.64297	0.2071992	0.1188037	0.2117482	0.09294456
0.013516	0.00072	31.44108	18.69158	0.0805506	0.4047805	0.5147286	0.1099481
0.041399	9.32E-08	70.30733	13.83012	0.3460176	0.7538182	0.640786	-0.1130322
0.023141	0.00524	22.81077	16.35612	0.0544494	0.2207332	0.3204199	0.09968666
0.027626	7.75E-06	51.10592	15.58679	0.1689303	0.3282354	0.3865822	0.05834683
0.001022	0.00113	29.46963	29.90574	0.529071	0.6479788	0.5279044	-0.1200744
0.000496	0.00167	27.76916	33.04365	0.808345	0.8879779	0.795645	-0.09233285
0.014408	0.0207	16.83954	18.41387	0.5170704	0.6325421	0.5006773	-0.1318648
0.000715	1.62E-05	47.89989	31.45483	0.7616169	0.8509076	0.7751638	-0.07574382
0.032134	0.01155	19.37586	14.93038	0.677318	0.6094562	0.6602682	0.05081207
0.008942	2.61E-06	55.83396	20.48554	0.227614	0.6792235	0.7710157	0.09179216
0.007269	0.00037	34.36764	21.38539	0.7508936	0.6289904	0.5565022	-0.07248812
0.029043	0.00891	20.50164	15.36962	0.150898	0.2352713	0.1725385	-0.06273279
0.020911	0.00615	22.1116	16.79623	0.8207289	0.7351018	0.7985915	0.0634897
0.010659	0.04925	13.07635	19.72285	0.5826675	0.6458696	0.7412103	0.09534075
0.026661	0.0023	26.38727	15.74125	0.4696512	0.6700665	0.7751129	0.1050464
6.65E-05	4.81E-07	63.17485	41.77144	0.4647085	0.2027456	0.4150682	0.2123226
0.026744	0.00027	35.70979	15.72767	0.7867978	0.608491	0.6895306	0.08103964
0.011389	0.01919	17.16846	19.43519	0.19545	0.1408831	0.1966164	0.05573326
0.018882	0.00704	21.52731	17.23963	0.9119527	0.7590125	0.8617615	0.1027489
0.020242	0.00502	22.98894	16.93738	0.2906462	0.4269925	0.5158185	0.08882604
0.024987	0.00069	31.61892	16.02282	0.9051661	0.7480349	0.6448274	-0.1032075
0.018726	0.00879	20.56112	17.27565	0.8983001	0.6709691	0.4956944	-0.1752747
0.001595	7.83E-08	71.06223	27.97275	0.8574889	0.9331636	0.8636472	-0.06951652
0.033476	0.00015	38.33698	14.75265	0.1493277	0.35194	0.2873412	-0.06459879
0.003435	0.00584	22.33388	24.64039	0.553212	0.6391098	0.5423449	-0.09676498
0.010731	0.00286	25.43224	19.69375	0.895114	0.9675298	0.9148887	-0.05264112
0.000586	0.00255	25.93313	32.3231	0.8720071	0.9312821	0.8695381	-0.06174398
0.016601	0.00158	28.01122	17.79859	0.8298141	0.7153847	0.7754954	0.06011065
0.042003	0.03316	14.79354	13.7672	0.8854398	0.7697799	0.626891	-0.1428889
0.011099	0.01866	17.29192	19.54704	0.6787204	0.8110667	0.6578467	-0.15322
0.035288	0.04059	13.91603	14.52375	0.1366644	0.2766682	0.4144773	0.1378091
0.003391	2.38E-05	46.2262	24.69691	0.8361188	0.7537552	0.8047187	0.05096363
0.006761	0.00472	23.25937	21.70006	0.7567856	0.8314838	0.7586517	-0.07283211
0.026888	0.01982	17.02846	15.70437	0.3285941	0.4254853	0.3335346	-0.09195067
0.010022	0.01071	19.70047	19.9903	0.2052185	0.1238485	0.1984195	0.07457104
0.023833	0.03582	14.45817	16.2283	0.1157671	0.2143921	0.3476732	0.1332811
0.005248	0.00303	25.18015	22.79998	0.7553479	0.8388471	0.7627597	-0.07608745
0.015374	0.00961	20.17369	18.13199	0.5516211	0.61276	0.5578199	-0.0549401
0.04876	0.04353	13.61176	13.11939	0.8599601	0.6968256	0.8533037	0.1564781
0.011457	0.00055	32.60911	19.40938	0.1873886	0.3553066	0.447899	0.09259241
0.025281	0.00524	22.80477	15.97197	0.8481379	0.6659348	0.5576994	-0.1082354
0.004516	0.00094	30.26652	23.45279	0.8222249	0.677932	0.5517326	-0.1261995
0.009906	0.03428	14.64899	20.04093	0.6054513	0.6653872	0.5360541	-0.1293331
0.026832	0.03851	14.14419	15.71345	0.6899315	0.5883737	0.4890165	-0.0993572
0.000969	0.00109	29.61046	30.13821	0.2557739	0.0872216	0.2051001	0.1178784

0.036916	0.02184	16.60748	14.32788	0.7834563	0.7248979	0.7751256	0.05022774
0.008419	0.017	17.69665	20.74719	0.6602552	0.7298496	0.6540773	-0.07577237
0.046026	0.00068	31.70072	13.36997	0.8640745	0.7313715	0.6600202	-0.0713514
0.017406	0.03369	14.7255	17.59309	0.6192617	0.7068005	0.5992331	-0.1075674
0.00058	9.67E-06	50.1438	32.36877	0.127747	0.2939805	0.4026444	0.1086639
0.020469	0.00324	24.88894	16.88894	0.8291081	0.6911759	0.770668	0.07949215
0.00042	1.19E-06	59.23323	33.77168	0.8557414	0.7265637	0.7867261	0.06016233
0.023513	0.0086	20.65427	16.28683	0.7366596	0.7898892	0.7326327	-0.05725643
0.035261	0.03811	14.18917	14.5271	0.1335008	0.08309	0.133423	0.05033294
0.039265	0.02265	16.45004	14.05993	0.3943714	0.3265001	0.3839782	0.05747818
0.048368	9.21E-06	50.35686	13.1544	0.3487017	0.7731655	0.7173411	-0.05582446
0.025168	5.39E-06	52.68716	15.99157	0.1035607	0.5344728	0.6398296	0.1053568
0.013068	5.22E-05	42.82212	18.83787	0.655974	0.8942184	0.8007927	-0.09342578
0.019663	0.0104	19.82959	17.06351	0.2654967	0.1323486	0.2447053	0.1123568
0.005756	0.00549	22.60798	22.39883	0.6108776	0.7635928	0.6122348	-0.151358
0.048902	5.22E-06	52.82093	13.10673	0.8258411	0.5182071	0.572372	0.0541648
0.001641	0.00236	26.26725	27.84838	0.8456711	0.9055582	0.8521391	-0.05341917
0.002641	0.0048	23.18419	25.78173	0.5831819	0.6650696	0.5731089	-0.09196073
0.027077	0.02655	15.75912	15.67402	0.8780972	0.8147222	0.8783537	0.06363147
0.01908	0.00129	28.90403	17.19429	0.8349082	0.7353312	0.785834	0.05050272
0.001132	0.0015	28.24889	29.46087	0.8570495	0.7950942	0.8628371	0.06774285
0.012442	0.01506	18.22231	19.05123	0.8913724	0.7851887	0.685828	-0.09936073
0.034961	0.00415	23.82368	14.56417	0.8076779	0.7392383	0.7957149	0.05647656
0.000457	0.00101	29.97319	33.39765	0.197295	0.1462277	0.1996737	0.05344597
0.032003	0.00231	26.37063	14.94804	0.9031078	0.7987098	0.8601037	0.06139394
0.006804	0.01802	17.44157	21.67255	0.7027384	0.7565333	0.6973022	-0.05923117
0.00647	0.01711	17.6686	21.89096	0.214525	0.1500046	0.230765	0.08076043
0.000286	0.00084	30.77184	35.43525	0.8963065	0.9533709	0.8730823	-0.08028848
8.02E-05	3.66E-06	54.3662	40.96005	0.2913312	0.1696006	0.2916617	0.1220611
0.001243	0.0012	29.2206	29.05438	0.2719357	0.1406271	0.2727081	0.1320809
0.037798	0.01313	18.8173	14.22531	0.8779172	0.6973011	0.8226832	0.1253821
0.043103	0.017	17.69452	13.65489	0.8314804	0.7456193	0.6715193	-0.07409993
0.014675	0.00026	35.93337	18.33428	0.0674556	0.3315663	0.4265264	0.09496014
0.018867	0.02542	15.94873	17.24297	0.784751	0.8789952	0.7901367	-0.08885851
0.001228	0.00011	39.65384	29.10723	0.2596883	0.5147592	0.3907305	-0.1240287
0.0414	0.03169	14.99134	13.82995	0.4968734	0.3318567	0.4157139	0.08385714
0.010048	0.00938	20.27989	19.97927	0.8920047	0.8309057	0.8913378	0.06043206
0.026811	0.00387	24.11898	15.71685	0.8349003	0.6451573	0.5469148	-0.09824243
0.047127	0.0374	14.27075	13.26728	0.8871191	0.7268053	0.8701302	0.1433249
0.009017	0.02096	16.78659	20.4494	0.3115181	0.2415159	0.3405467	0.09903081
5.14E-06	1.03E-06	59.88205	52.89204	0.452669	0.6467508	0.4451914	-0.2015594
0.005561	0.00362	24.41239	22.54843	0.8750388	0.9409106	0.877337	-0.06357358
0.000595	0.01209	19.17462	32.25468	0.4655713	0.525856	0.4206827	-0.1051733
0.000259	0.00077	31.1163	35.85969	0.2478234	0.1581823	0.2332812	0.07509887
0.015477	0.02964	15.28175	18.10306	0.8761162	0.8015199	0.6634573	-0.1380626
0.000101	8.24E-05	40.8414	39.94046	0.1097634	0.0442363	0.0966213	0.05238495
0.008624	0.00065	31.89623	20.64299	0.8984885	0.7880075	0.8542917	0.06628422
0.000916	0.00036	34.48282	30.38019	0.4832103	0.3904681	0.454276	0.06380793
0.009909	0.00356	24.47974	20.03952	0.8006167	0.6710863	0.5777805	-0.0933058
0.046614	0.04899	13.09887	13.31486	0.7917067	0.7182603	0.7950401	0.07677971
0.004463	0.00127	28.94923	23.50341	0.8749807	0.7197484	0.6177055	-0.1020428
0.001068	0.00038	34.1935	29.71294	0.8890172	0.9639367	0.9066895	-0.05724717
0.01301	0.0169	17.72038	18.85732	0.0083014	0.0758067	0.206762	0.1309553
0.001676	0.00131	28.82102	27.75855	0.3092394	0.2430526	0.3065379	0.06348533



0.039791	0.0053	22.75979	14.00211	0.8793875	0.6999761	0.60704	-0.09293608
0.000533	7.79E-05	41.08347	32.73406	0.4058875	0.4595039	0.3953494	-0.0641545
0.000725	3.81E-05	44.19101	31.39846	0.6987762	0.8357718	0.7494348	-0.08633702
0.046451	0.00273	25.64213	13.33007	0.6087115	0.7693825	0.6657681	-0.1036144
0.006367	0.01288	18.901	21.96046	0.8102537	0.7002528	0.5758367	-0.1244161
0.042565	0.00117	29.31399	13.70944	0.9071054	0.7649851	0.8207318	0.05574668
0.038952	0.01577	18.02094	14.09467	0.8418481	0.7425157	0.6669102	-0.07560547
0.016535	0.01641	17.84881	17.81593	0.6608095	0.7423491	0.6614111	-0.08093806
0.005607	0.00011	39.39381	22.51281	0.7139574	0.4597035	0.5935707	0.1338672
0.024058	0.00208	26.81082	16.18746	0.679716	0.4905689	0.601943	0.111374
0.006089	6.85E-07	61.64007	22.15461	0.3473015	0.6116433	0.6869042	0.07526095
0.006244	0.00708	21.49939	22.04557	0.6931365	0.5830647	0.6882247	0.1051601
0.034559	0.02796	15.53525	14.61435	0.6468307	0.7854006	0.6605944	-0.1248062
0.009448	1.56E-05	48.05824	20.2466	0.1552718	0.3290991	0.2695222	-0.05957684
0.000817	0.00103	29.8769	30.87598	0.8990323	0.9571527	0.8837419	-0.07341082
0.000138	0.0002	36.96333	38.59835	0.665684	0.4999413	0.4064475	-0.09349379
0.021219	0.00804	20.94563	16.73281	0.9667771	0.8396956	0.7578085	-0.08188716
0.049494	0.01136	19.44698	13.05448	0.8268604	0.9172876	0.8580697	-0.05921797
0.000479	0.0007	31.57821	33.19987	0.8769775	0.947882	0.888635	-0.05924698
0.006573	0.01436	18.42811	21.8222	0.8693206	0.7155373	0.556193	-0.1593443
0.03725	0.0275	15.60719	14.2887	0.8719814	0.7011462	0.5584499	-0.1426963
0.000417	5.81E-06	52.36037	33.80132	0.1622646	0.0814703	0.1480218	0.0665515
0.003381	0.00116	29.33712	24.70984	0.2868319	0.1870421	0.2744747	0.08743254
0.025984	0.01633	17.87047	15.85298	0.5703877	0.718643	0.5952979	-0.1233451
0.00596	0.00352	24.53146	22.24723	0.7415657	0.8420263	0.7573647	-0.08466153
7.15E-05	4.41E-05	43.55496	41.45913	0.6958751	0.835307	0.7218233	-0.1134838
0.009254	0.02235	16.50685	20.33687	0.731362	0.8295227	0.7140303	-0.1154925
0.007861	0.00474	23.23899	21.04524	0.881979	0.8029263	0.872216	0.06928968
0.000116	0.00043	33.69035	39.3546	0.8468152	0.9572816	0.8393708	-0.1179108
0.0066	0.02923	15.34225	21.80449	0.8939976	0.830054	0.7222545	-0.1077994
0.000723	8.98E-05	40.46697	31.40686	0.232777	0.1198798	0.2017292	0.08184944
0.002559	0.00043	33.62416	25.92013	0.680879	0.6213366	0.6933641	0.07202755
0.000171	0.00057	32.46513	37.67205	0.4152606	0.6812966	0.3857909	-0.2955057
0.0497	0.01139	19.4359	13.03643	0.5908197	0.4319833	0.5425059	0.1105226
0.046132	0.01069	19.70971	13.36	0.8643578	0.6157932	0.4425837	-0.1732095
0.034661	0.01197	19.21928	14.60154	0.894633	0.6525567	0.5030581	-0.1494986
0.002446	0.001	30.01328	26.11533	0.1903699	0.1163872	0.1756593	0.05927213
0.03832	0.04662	13.31405	14.16575	0.7750645	0.826326	0.7711681	-0.0551579
0.000389	0.00229	26.40991	34.10119	0.5908619	0.7128422	0.583841	-0.1290012
0.003466	0.00429	23.67532	24.60123	0.6815337	0.7423223	0.6828135	-0.05950873
0.001815	0.00075	31.23042	27.41184	0.8407353	0.7820102	0.6745795	-0.1074307
0.000127	4.15E-05	43.81873	38.95887	0.6578159	0.7965744	0.6856872	-0.1108871
0.041242	0.00758	21.20168	13.84662	0.3181949	0.1461141	0.237184	0.09106989
0.003554	0.0053	22.75931	24.49332	0.7785894	0.8677251	0.7942687	-0.07345632
0.01408	0.01307	18.83825	18.51382	0.2864746	0.2259323	0.284463	0.05853072
0.020793	0.00321	24.93635	16.82084	0.0793434	0.2229079	0.2916608	0.06875294
0.023588	0.01803	17.44102	16.27302	0.35295	0.1997501	0.3412213	0.1414713
0.004678	0.00579	22.3727	23.29957	0.8219265	0.8886358	0.8252636	-0.06337216
0.003014	1.65E-05	47.82267	25.20822	0.4241082	0.6599513	0.7450891	0.08513773
0.02227	0.02725	15.64606	16.52278	0.6436788	0.7447299	0.6361993	-0.1085306
0.002889	0.00881	20.55248	25.39199	0.8031186	0.7530229	0.8170215	0.0639986
0.008289	0.01137	19.44169	20.81523	0.8970564	0.9476219	0.8910748	-0.05654704
0.003834	0.01258	19.00341	24.16376	0.1681664	0.2784999	0.4200062	0.1415063
0.048119	0.00335	24.74404	13.1768	0.8876461	0.8027358	0.7255567	-0.07717905

0.001342	0.00075	31.27738	28.72203	0.8172122	0.7342773	0.8054609	0.07118354
0.03113	0.00463	23.34179	15.06824	0.2272806	0.4191441	0.5370983	0.1179542
0.026227	0.00066	31.79557	15.81245	0.807216	0.6748058	0.7297799	0.05497412
1.68E-05	2.91E-07	65.36258	47.74023	0.1939961	0.1118996	0.1939515	0.08205191
0.004001	0.01846	17.33703	23.9784	0.8272713	0.8894786	0.7996574	-0.08982119
0.042284	0.00251	26.00378	13.73825	0.7419255	0.8689656	0.8186822	-0.05028336
0.033313	8.19E-06	50.86928	14.77383	0.8141308	0.6823207	0.6307713	-0.05154926
0.008748	7.08E-05	41.501	20.58088	0.1283962	0.334264	0.5169336	0.1826695
0.010455	0.00283	25.48573	19.80663	0.5643387	0.7022476	0.6016819	-0.1005656
0.013109	0.00641	21.93266	18.82415	0.4287114	0.2695305	0.3852404	0.1157099
0.047792	0.00469	23.2923	13.20649	0.7741388	0.6090557	0.5197424	-0.08931328
0.015777	0.00027	35.61023	18.01986	0.511529	0.6602193	0.5947008	-0.0655185
0.003379	0.0004	34.01804	24.71162	0.1600342	0.0833471	0.1359134	0.05256633
0.001192	0.00157	28.04534	29.23576	0.8434477	0.9096888	0.831114	-0.07857484
0.024042	0.02332	16.32265	16.19021	0.643585	0.7159396	0.6421368	-0.07380282
0.040055	0.03396	14.68993	13.97345	0.6915355	0.7485526	0.6941956	-0.05435705
0.00439	0.00036	34.4556	23.57509	0.836113	0.6291163	0.4855484	-0.1435679
0.006374	0.0023	26.38459	21.95605	0.7914268	0.8652571	0.804835	-0.06042208
0.020222	0.0001	39.81178	16.94177	0.8698311	0.6756435	0.6044236	-0.07121985
0.000155	0.01799	17.45022	38.10247	0.0029317	0.0683765	0.2413663	0.1729898
0.000586	0.00059	32.30605	32.32163	0.2167014	0.1214588	0.2089031	0.08744432
0.004948	0.00132	28.78805	23.05567	0.1747707	0.0901478	0.1435696	0.05342175
0.046848	0.01259	18.99917	13.2931	0.9403103	0.7519314	0.6389743	-0.1129571
9.32E-05	1.50E-05	48.24985	40.30377	0.4548633	0.1937658	0.398372	0.2046062
0.001576	0.0007	31.56219	28.02438	0.1752874	0.3057263	0.421049	0.1153227
0.045654	0.02959	15.28807	13.40521	0.82197	0.6368188	0.7905943	0.1537755
0.016871	0.00083	30.78646	17.72862	0.8672511	0.7635217	0.8181502	0.05462838
0.048211	0.00257	25.89868	13.16857	0.2062845	0.3358374	0.4061862	0.07034879
0.020709	0.01326	18.77476	16.83835	0.6314141	0.7035886	0.651763	-0.05182558
0.019126	0.00846	20.72618	17.18381	0.8805501	0.9413258	0.8902726	-0.05105319
0.000474	0.00018	37.48761	33.24105	0.7986948	0.9080455	0.8152373	-0.09280817
4.88E-05	5.52E-08	72.57994	43.11604	0.1623772	0.0866398	0.1475886	0.06094882
0.036584	0.0425	13.71604	14.36714	0.114244	0.1951928	0.1077711	-0.08742175
0.039845	0.0302	15.20043	13.99627	0.0769478	0.1751212	0.085984	-0.08913719
0.000707	0.00047	33.26655	31.50873	0.3808813	0.2270684	0.356697	0.1296286
0.000119	0.00016	37.9567	39.24102	0.7747822	0.8451048	0.7813333	-0.06377152
0.000371	0.00022	36.5942	34.30264	0.5745112	0.6884465	0.5787034	-0.1097431
0.041985	0.02028	16.92971	13.76909	0.8664486	0.7402496	0.6454715	-0.09477813
0.000528	0.00013	38.82291	32.77249	0.8482856	0.9146108	0.8589132	-0.05569764
0.000344	0.0018	27.45367	34.63837	0.661931	0.7321158	0.6535153	-0.07860054
0.000128	2.08E-08	76.81339	38.92506	0.2666419	0.1076809	0.2466278	0.1389469
0.029652	0.01887	17.2416	15.27951	0.7649158	0.6683954	0.7521119	0.08371646
0.020412	0.02223	16.53011	16.90107	0.2831132	0.5000401	0.621806	0.121766
0.006246	0.00155	28.08279	22.04377	0.7942842	0.6543088	0.7760844	0.1217756
0.001147	0.00749	21.25533	29.40484	0.2961265	0.3565648	0.2828454	-0.0737193
0.020468	0.02693	15.69759	16.88925	0.1901507	0.2557601	0.316767	0.06100695
0.000817	0.00303	25.18474	30.87748	0.0651318	0.1756952	0.2941464	0.1184512
0.001628	0.00314	25.02459	27.88428	0.5630346	0.7982822	0.571649	-0.2266333
0.017413	0.032	14.94823	17.59118	0.0630665	0.1863517	0.3233004	0.1369487
0.043046	0.0008	30.9824	13.66063	0.7960701	0.6167252	0.5433031	-0.07342218
0.013841	0.00015	38.34208	18.58838	0.7319369	0.5425808	0.4531626	-0.08941825
0.003337	9.45E-06	50.24739	24.76632	0.1724088	0.3724606	0.4640599	0.09159931
2.89E-07	4.59E-07	63.37974	65.38944	0.6540223	0.8061464	0.6349831	-0.1711634
0.045025	0.00948	20.23359	13.46543	0.8082951	0.7246254	0.7810299	0.05640447

0.034708	0.00094	30.25968	14.5957	0.2751996	0.5632619	0.6695006	0.1062387
0.013007	0.03317	14.79316	18.8582	0.8670325	0.7759956	0.6636113	-0.1123843
0.023025	0.03727	14.28639	16.37807	0.8383994	0.7598931	0.86208	0.1021869
0.004038	0.0049	23.09435	23.93782	0.8679389	0.6647606	0.8308259	0.1660652
0.002457	0.00386	24.13411	26.09543	0.6270747	0.7554953	0.6228903	-0.1326051
0.013018	0.02757	15.59605	18.85445	0.0585061	0.1208209	0.2462317	0.1254109
0.035798	0.0046	23.37117	14.46144	0.880716	0.7830816	0.6930875	-0.08999413
0.002955	0.00958	20.18824	25.29387	0.1724627	0.2508387	0.364503	0.1136643
0.001014	0.0019	27.21061	29.94069	0.4897659	0.6118991	0.4794257	-0.1324733
0.002177	0.00036	34.38228	26.62116	0.9100192	0.9626837	0.9116961	-0.05098757
0.007105	0.00082	30.88309	21.48447	0.8842667	0.8241972	0.8815735	0.05737623
0.03888	0.02076	16.82835	14.10274	0.9201796	0.8532655	0.9079269	0.05466141
0.011494	0.01411	18.50525	19.39547	0.6358414	0.7411423	0.63268	-0.1084623
0.021504	0.04132	13.83877	16.67488	0.7835131	0.7121242	0.5893874	-0.1227369
0.016741	0.00297	25.27743	17.76226	0.8548707	0.7143584	0.7958289	0.08147053
0.038018	3.09E-06	55.09354	14.20012	0.3603278	0.5683183	0.6440027	0.07568441
0.048943	0.00651	21.8627	13.10308	0.2590086	0.4231397	0.3301257	-0.093014
0.003992	0.04448	13.5187	23.98829	0.1234358	0.18505	0.2977212	0.1126712
0.020061	0.00382	24.17501	16.97644	0.840551	0.7687494	0.8215248	0.05277538
0.000946	0.00053	32.786	30.24018	0.9260646	0.8375693	0.9134752	0.07590582
0.048278	0.00138	28.58856	13.16253	0.0726477	0.3819439	0.4816891	0.09974523
0.003688	0.03027	15.19053	24.33257	0.7316816	0.7862494	0.6915817	-0.09466772
0.013437	0.03103	15.08272	18.71709	0.6649469	0.7177054	0.6484994	-0.06920601
0.002564	0.00033	34.82195	25.91059	0.8724393	0.9524016	0.8929325	-0.05946911
0.039084	2.06E-06	56.86208	14.08005	0.2682171	0.7393726	0.6643272	-0.0750454
0.000433	0.00125	29.04556	33.63771	0.8436866	0.7403352	0.8327454	0.09241021
0.002634	1.46E-05	48.35086	25.79353	0.7492076	0.9305466	0.8064755	-0.1240712
6.31E-05	5.27E-08	72.78281	41.99696	0.1962185	0.1135601	0.1774652	0.06390506
0.001428	0.00267	25.72687	28.4532	0.5103926	0.6086521	0.5064501	-0.1022021
0.011014	0.02345	16.29766	19.58072	0.6384474	0.7088489	0.6248547	-0.08399419
0.009613	0.0081	20.91401	20.17146	0.7668058	0.8539724	0.7711116	-0.08285644
0.002357	0.00536	22.70892	26.27661	0.6688665	0.7874856	0.6549493	-0.1325362
0.023759	0.0062	22.07864	16.24172	0.8576871	0.7812206	0.837562	0.05634139
0.007905	0.00125	29.03646	21.02078	0.8832069	0.700498	0.8027692	0.1022712
0.011298	0.00157	28.04617	19.47011	0.3459128	0.5430787	0.3899125	-0.1531663
0.006485	0.00415	23.81796	21.88119	0.8907655	0.7739007	0.8663296	0.0924289
0.021262	0.04321	13.64426	16.72405	0.2929274	0.237749	0.300218	0.06246899
0.019251	0.01521	18.17824	17.15537	0.3982602	0.7122142	0.4207123	-0.2915018
0.003401	0.00264	25.78865	24.68383	0.3331913	0.1471566	0.3153619	0.1682053
0.016862	0.04301	13.6638	17.73103	0.7662099	0.8448746	0.7451839	-0.09969068
0.000575	0.01418	18.48387	32.40354	0.8052725	0.7488118	0.6496955	-0.09911633
0.008993	0.00329	24.8216	20.4609	0.2614352	0.142072	0.2388644	0.09679241
0.000397	2.12E-05	46.73028	34.01445	0.5553424	0.6423066	0.5727993	-0.06950737
0.048611	0.00171	27.66084	13.13268	0.8662158	0.8097991	0.7556624	-0.05413666
0.018357	0.0004	33.98686	17.36196	0.846561	0.6865588	0.6030204	-0.08353835
0.029534	0.01191	19.23956	15.29679	0.2470144	0.3502174	0.4356017	0.08538426
0.026669	0.01423	18.46696	15.73995	0.6577616	0.7217456	0.6682541	-0.05349147
0.011848	0.02317	16.34994	19.26369	0.8149318	0.8713544	0.802637	-0.06871737
0.018627	0.00225	26.47878	17.29854	0.8168567	0.7041439	0.6077693	-0.09637462
0.000679	1.02E-05	49.90025	31.67848	0.1280968	0.0632648	0.1302621	0.06699732
0.020844	0.00625	22.03929	16.81014	0.8133096	0.583128	0.7405326	0.1574047
0.007585	0.01348	18.70464	21.2007	0.2393699	0.1727909	0.2383605	0.06556956
0.000611	0.00032	34.88678	32.13845	0.1532488	0.082888	0.1455869	0.06269894
0.029283	0.00012	39.37227	15.33389	0.1044663	0.3474336	0.428066	0.08063246

0.001714	0.00081	30.92093	27.66098	0.3145923	0.1981409	0.2900851	0.09194421
0.002203	0.00413	23.84558	26.56986	0.7512765	0.888971	0.7516375	-0.1373336
0.007298	0.00736	21.32888	21.36824	0.0704361	0.1213847	0.0687491	-0.05263557
0.004108	0.0088	20.55639	23.86374	0.85956	0.7782004	0.6782371	-0.09996327
0.01725	0.00293	25.3321	17.63217	0.0757321	0.3423601	0.4853193	0.1429593
0.009829	0.00336	24.73301	20.07477	0.7760258	0.8316702	0.7715271	-0.06014313
0.030502	0.01807	17.42939	15.15674	0.8595018	0.9272436	0.8703914	-0.0568522
0.003118	0.00196	27.06827	25.06062	0.9030474	0.8480029	0.7799305	-0.06807229
0.006492	0.00184	27.34159	21.87619	0.1998513	0.1283347	0.1808176	0.05248285
0.002305	0.00279	25.53857	26.37281	0.0765806	0.2032619	0.0816302	-0.1216317
0.031069	0.00187	27.28226	15.07675	0.240925	0.4071985	0.4945976	0.0873992
0.00592	0.00182	27.39832	22.27684	0.2690285	0.1488753	0.2383728	0.08949752
0.005222	0.04519	13.44956	22.82191	0.8071075	0.7202738	0.5719931	-0.1482807
0.024023	0.03068	15.13103	16.19371	0.5969135	0.7009819	0.5906395	-0.1103424
0.009132	0.0215	16.67661	20.39457	0.816363	0.8717152	0.8056187	-0.06609655
1.99E-06	2.19E-05	46.60045	57.01352	0.6677721	0.4244026	0.6688704	0.2444678
0.000236	2.03E-05	46.91723	36.26478	0.1293108	0.0574463	0.108462	0.0510157
0.011074	0.01187	19.25595	19.55693	0.5936202	0.7066299	0.7669297	0.06029985
0.043409	0.02585	15.87496	13.62421	0.2594535	0.1986132	0.250975	0.0523618
0.030159	0.03387	14.70234	15.20589	0.4980386	0.5569563	0.4963252	-0.06063107
0.028985	0.0113	19.46949	15.37829	0.8522304	0.7719672	0.8361911	0.06422389
0.000178	0.00224	26.49865	37.50018	0.3857423	0.4512153	0.3480717	-0.1031436
0.00727	0.00497	23.03878	21.38453	0.7018099	0.8175495	0.7063056	-0.1112438
0.036903	3.74E-05	44.2713	14.3294	0.1608812	0.5271873	0.4015701	-0.1256172
0.004097	0.00019	37.16128	23.87492	0.1279789	0.0624254	0.1125203	0.05009488
0.035758	0.02113	16.75104	14.46626	0.6967937	0.7666544	0.703554	-0.06310045
0.033371	0.01628	17.88381	14.76631	0.8419536	0.7290813	0.6352647	-0.09381658
0.006399	0.00423	23.73861	21.93855	0.8757581	0.7518185	0.8552226	0.103404
0.046896	0.01813	17.41484	13.28863	0.2061093	0.3685273	0.4865989	0.1180717
0.010278	0.0155	18.09582	19.88106	0.8547809	0.8016806	0.8626155	0.06093483
0.00037	0.00049	33.13295	34.31808	0.6806381	0.7788105	0.6774384	-0.101372
0.010479	0.04126	13.84422	19.79698	0.7979302	0.7190767	0.8207955	0.1017189
0.001237	4.01E-05	43.97144	29.07598	0.8312188	0.6568593	0.7613556	0.1044963
0.000309	3.55E-05	44.49826	35.10205	0.102911	0.021515	0.0837909	0.06227598
0.006316	0.02562	15.91458	21.99535	0.7171454	0.8022869	0.691833	-0.1104539
7.18E-05	4.38E-05	43.58422	41.43627	0.6977466	0.8045075	0.6758508	-0.1286567
0.002004	0.04929	13.07232	26.98152	0.8105167	0.8860928	0.7473668	-0.138726
0.018391	0.04789	13.1975	17.35398	0.8281224	0.7554301	0.6522204	-0.1032096
0.032785	0.01448	18.3919	14.84327	0.7351388	0.804408	0.7314159	-0.0729921
0.019228	0.0105	19.78943	17.16058	0.6319874	0.7243806	0.6468844	-0.07749626
0.00092	0.00335	24.74996	30.36157	0.892864	0.7876732	0.6619406	-0.1257326
0.001051	0.00022	36.65496	29.78587	0.6494809	0.7249386	0.645244	-0.0796946
0.013093	0.00692	21.60088	18.8295	0.148871	0.0929689	0.1455988	0.05262982
0.006261	0.00365	24.37926	22.0333	0.6260722	0.8182095	0.6632106	-0.1549989
0.010174	0.00039	34.05849	19.92499	0.0846942	0.3053727	0.4240082	0.1186355
0.002853	0.00282	25.5	25.44668	0.7657827	0.8261495	0.763455	-0.0626946
0.028036	0.00804	20.94627	15.5229	0.9589275	0.8769167	0.8225576	-0.05435916
0.001796	0.00145	28.37626	27.45788	0.7055881	0.7843497	0.731306	-0.05304373
0.015046	0.01089	19.62962	18.22587	0.2843417	0.121019	0.2729455	0.1519265
0.020686	0.01648	17.83035	16.84319	0.638377	0.7712297	0.6570319	-0.1141978
0.028495	0.00835	20.78255	15.45234	0.1850834	0.2506992	0.3712142	0.120515
0.003553	0.02026	16.93318	24.4938	0.8222539	0.7140499	0.5690429	-0.1450069
0.03627	0.03251	14.87995	14.40448	0.8474079	0.7425402	0.8444141	0.1018739
0.013427	0.00206	26.86358	18.72006	0.6741896	0.7667612	0.7052706	-0.06149056

0.001472	0.00547	22.62352	28.32092	0.6615441	0.7207701	0.6454527	-0.07531732
0.004843	0.0042	23.77172	23.14903	0.8512283	0.9074265	0.8513597	-0.0560668
0.000439	0.00074	31.30849	33.57518	0.5491062	0.6612417	0.5527692	-0.1084725
0.021704	3.42E-05	44.66239	16.63461	0.7751771	0.5404636	0.4873494	-0.05311417
0.004205	0.00033	34.83627	23.76224	0.7241185	0.5981691	0.6790912	0.08092207
0.019376	0.00527	22.77816	17.12726	0.7972529	0.8623551	0.7846397	-0.07771546
0.044484	6.42E-07	61.92638	13.51794	0.8628715	0.6782847	0.5878569	-0.09042775
0.044213	0.00067	31.74629	13.54447	0.4262993	0.7266161	0.6189103	-0.1077058
0.000574	0.00238	26.23941	32.41002	0.6046601	0.7265565	0.6056831	-0.1208734
0.001928	0.00278	25.5559	27.14889	0.2506643	0.1516003	0.2407953	0.08919501
1.02E-05	1.26E-07	68.98405	49.92554	0.5822229	0.7405066	0.6404246	-0.100082
0.03418	0.02713	15.66482	14.66226	0.348289	0.5045765	0.366328	-0.1382485
0.040304	0.02592	15.86391	13.94648	0.3559008	0.2159846	0.3414529	0.1254683
0.004735	0.00012	39.1202	23.24664	0.2422612	0.3046188	0.3755732	0.07095437
8.40E-05	1.40E-05	48.53041	40.75576	0.1795273	0.0718579	0.1530674	0.08120951
6.76E-05	4.68E-06	53.30154	41.70137	0.3618068	0.1401588	0.297028	0.1568692
0.000274	0.00039	34.13471	35.62357	0.1251753	0.0587495	0.1201655	0.06141597
0.012469	0.00362	24.41044	19.04161	0.8577281	0.7918833	0.8433948	0.05151146
0.003289	0.00587	22.31534	24.82943	0.8542693	0.7138336	0.5790498	-0.1347837
0.003197	0.01118	19.51739	24.95254	0.2817713	0.1917364	0.2970713	0.1053349
0.009093	0.00871	20.59907	20.41307	0.4549667	0.6804578	0.4574433	-0.2230144
0.014356	0.00578	22.38432	18.42962	0.6893493	0.7650547	0.7091927	-0.05586198
0.048413	0.03681	14.3409	13.15036	0.0415114	0.1028751	0.0472581	-0.055617
0.04178	0.01429	18.44916	13.79028	0.6490341	0.7239239	0.6638087	-0.06011524
0.001294	0.00152	28.17538	28.88022	0.1529496	0.0804235	0.1479515	0.06752797
0.003917	0.00168	27.7388	24.07067	0.297885	0.2023243	0.2970388	0.09471446
0.002879	0.00162	27.91783	25.40712	0.768081	0.8481575	0.7642691	-0.08388843
0.022048	0.0087	20.6046	16.56621	0.7843918	0.8820187	0.8029957	-0.07902292
0.012459	0.00719	21.43291	19.04525	0.6243743	0.6981257	0.6369265	-0.06119919
0.00674	0.0018	27.44612	21.71324	0.0706683	0.2104389	0.3265734	0.1161345
0.001704	0.00076	31.20583	27.68511	0.9284468	0.8218145	0.6634052	-0.1584093
0.029878	0.03262	14.86579	15.24655	0.7461443	0.912387	0.7613134	-0.1510736
0.013347	0.00988	20.05361	18.74632	0.8405454	0.7321513	0.6043584	-0.127793
0.001335	0.00064	31.9314	28.7443	0.6580606	0.7293738	0.6670603	-0.06231353
0.000415	0.00036	34.46053	33.81442	0.2129637	0.0950334	0.204754	0.1097206
0.045567	0.02811	15.5114	13.41354	0.5923473	0.7733354	0.6264914	-0.146844
0.030014	0.00058	32.35069	15.2268	0.6034715	0.7154417	0.6356341	-0.07980759
0.030168	0.00017	37.64102	15.20454	0.8243886	0.5426798	0.6285553	0.08587548
0.01101	3.76E-05	44.251	19.58197	0.1881112	0.4129504	0.5116918	0.09874137
0.029769	2.54E-05	45.94314	15.26239	0.7433598	0.496294	0.3924766	-0.1038174
0.033308	0.01823	17.39313	14.77446	0.1386538	0.2173696	0.3463199	0.1289503
0.001917	0.00188	27.25229	27.17388	0.559397	0.6518603	0.5686016	-0.08325864
0.001762	0.00016	38.02843	27.53999	0.1447742	0.3138779	0.2061551	-0.1077228
0.020419	0.00016	37.98663	16.89955	0.7235908	0.4545189	0.3490267	-0.1054922
0.004512	0.00174	27.58771	23.45606	0.2114902	0.1414024	0.1995324	0.05812999
0.034653	0.00387	24.12414	14.60264	0.1404754	0.2044455	0.3177929	0.1133474
0.038095	0.02426	16.15161	14.19134	0.1927999	0.1164373	0.1824876	0.06605028
0.018336	0.00622	22.06543	17.36706	0.8765355	0.6786407	0.5345219	-0.1441187
0.004297	0.03862	14.13141	23.66822	0.7360238	0.8023425	0.6919273	-0.1104152
0.012267	0.00605	22.183	19.11251	0.9064879	0.7810934	0.6756964	-0.105397
0.048554	0.0016	27.96551	13.13771	0.1862483	0.4098838	0.4967344	0.08685052
6.72E-05	1.69E-05	47.72284	41.72585	0.1218035	0.0548663	0.112028	0.05716172
0.007662	0.00291	25.36485	21.1565	0.8856412	0.9587196	0.8983277	-0.06039183
0.005762	0.01735	17.60654	22.39456	0.4345325	0.704837	0.485098	-0.219739

0.004058	0.00473	23.25315	23.9171	0.5586606	0.6629835	0.5569618	-0.1060217
0.01884	0.01151	19.38747	17.24915	0.8388567	0.7794029	0.8323193	0.05291631
0.003863	0.00596	22.24547	24.13026	0.7517546	0.8344104	0.7523531	-0.08205728
0.004628	0.00325	24.88486	23.34641	0.7469876	0.6412017	0.7392493	0.09804764
0.014058	0.02046	16.88998	18.52062	0.8575966	0.9147197	0.8486553	-0.0660644
0.021274	0.03766	14.24155	16.72151	0.8282257	0.8982966	0.8440158	-0.05428076
0.000739	0.00023	36.4472	31.3158	0.2147133	0.0813726	0.1759507	0.09457809
0.041759	0.01124	19.49052	13.79254	0.6689026	0.5489334	0.6279886	0.07905516
0.034399	0.0101	19.95526	14.63453	0.8580824	0.7941263	0.7261989	-0.0679274
0.00032	0.00047	33.26628	34.94378	0.1633434	0.0744937	0.1724086	0.09791484
0.028481	0.00012	39.35493	15.45452	0.2558642	0.4889433	0.409438	-0.07950526
0.024401	0.01338	18.73604	16.12592	0.1959146	0.1246587	0.1830852	0.05842653
0.020282	0.00335	24.74829	16.92892	0.7788411	0.7264862	0.6597724	-0.06671378
0.049177	0.00089	30.5055	13.08241	0.851678	0.6439461	0.5347224	-0.1092237
0.026821	0.00117	29.3215	15.71524	0.0577933	0.1760019	0.3082554	0.1322535
5.77E-05	4.48E-05	43.48586	42.38959	0.4741117	0.2813702	0.4638341	0.182464
0.010665	0.01071	19.70373	19.72032	0.2169529	0.1320166	0.2102368	0.07822023
0.023386	0.02544	15.94466	16.3104	0.112736	0.1960583	0.1165637	-0.07949458
0.017684	0.00558	22.53344	17.52419	0.8314323	0.6731238	0.7958134	0.1226896
0.032624	0.00247	26.06942	14.86466	0.8458363	0.7613826	0.6784886	-0.08289399
0.024364	0.00017	37.73592	16.13244	0.1033474	0.58504	0.4245766	-0.1604633
0.005175	0.00015	38.20736	22.8608	0.0717113	0.2034922	0.2709524	0.06746022
0.008216	0.01178	19.28787	20.85332	0.8279689	0.887342	0.8162336	-0.07110843
0.046387	0.02211	16.55338	13.33607	0.8772914	0.736625	0.626563	-0.1100621
0.024035	5.40E-06	52.67694	16.19163	0.2231409	0.5571196	0.4873998	-0.06971975
0.003159	0.02385	16.22594	25.00483	0.1828951	0.2706126	0.4382	0.1675874
0.002942	0.00216	26.654	25.3138	0.8767825	0.9344231	0.8831293	-0.05129389
0.000736	0.00024	36.2494	31.33388	0.7863516	0.9158473	0.8162863	-0.09956103
0.007005	0.00729	21.37513	21.54564	0.4026907	0.2516453	0.3876185	0.1359732
0.001075	0.00093	30.31304	29.6854	0.849704	0.9480947	0.853358	-0.09473675
0.006885	0.00464	23.33867	21.62101	0.7644663	0.8514455	0.7658156	-0.08562995
0.01045	0.0214	16.69579	19.80881	0.7732193	0.8536923	0.7665951	-0.08709715
0.005935	5.79E-05	42.37263	22.26577	0.5183356	0.6452457	0.7321937	0.08694801
0.038386	0.03561	14.48461	14.15823	0.1876418	0.3015819	0.354587	0.05300507
0.027412	0.02087	16.80442	15.62064	0.3169615	0.2595694	0.3118171	0.05224767
0.046997	0.00227	26.44767	13.2793	0.6377625	0.4784186	0.4057631	-0.07265543
0.014434	0.0001	39.99227	18.40622	0.7168469	0.5673144	0.634829	0.06751452
0.009117	0.0009	30.43771	20.40133	0.8461638	0.902764	0.8380826	-0.06468135
0.000361	0.0046	23.37124	34.41926	0.7747281	0.8667641	0.7588411	-0.1079231
0.003173	0.00391	24.07319	24.98509	0.5366782	0.7061805	0.5532719	-0.1529086
0.001863	0.00118	29.27855	27.29835	0.8349054	0.901766	0.8254738	-0.07629221
0.016935	0.00583	22.3441	17.71214	0.864677	0.7563608	0.8216751	0.06531437
0.046332	0.00539	22.68793	13.34119	0.6864334	0.5779844	0.5190554	-0.05892903
0.009924	0.00547	22.61815	20.03326	0.8083219	0.8994951	0.8292137	-0.07028142
0.016628	0.00047	33.32324	17.79154	0.1140408	0.22206	0.3214985	0.09943847
0.004443	0.00216	26.66495	23.52287	0.7098501	0.8245091	0.7107112	-0.113798
0.018618	0.00767	21.15448	17.30066	0.0808033	0.2582214	0.3787387	0.1205173
0.01156	0.00057	32.44189	19.37037	0.6211749	0.7218112	0.6659835	-0.05582777
0.046845	0.00195	27.09423	13.29337	0.8554664	0.7533585	0.8041899	0.05083133
0.016747	0.01956	17.08649	17.76063	0.7370667	0.8159469	0.7411627	-0.07478413
0.034203	0.02925	15.33878	14.65935	0.7857901	0.850376	0.7908121	-0.05956389
0.001458	1.30E-05	48.85147	28.36383	0.2234875	0.1415585	0.194674	0.0531156
0.008381	0.00024	36.22818	20.76723	0.788041	0.9404134	0.8664525	-0.07396082
0.012725	0.00147	28.33064	18.95333	0.7499678	0.6379037	0.7084416	0.07053787

0.029656	0.02517	15.99077	15.27884	0.5930808	0.6526194	0.5983393	-0.05428004
0.000825	0.0007	31.53959	30.83622	0.6268831	0.7172763	0.6198523	-0.09742405
0.010358	0.00286	25.42985	19.84722	0.6948414	0.5856742	0.6616631	0.07598885
0.001869	0.00089	30.51638	27.28407	0.3479254	0.1738187	0.3113425	0.1375238
0.008981	0.04208	13.75881	20.46689	0.883819	0.789737	0.6496791	-0.1400579
0.017915	0.00175	27.56764	17.46782	0.151065	0.3658212	0.491782	0.1259608
0.026706	0.01073	19.69304	15.73388	0.8074237	0.6620211	0.5567204	-0.1053007
0.014253	0.02422	16.15861	18.46088	0.8855495	0.9421717	0.8725404	-0.06963132
0.008261	0.02568	15.90439	20.82966	0.5680796	0.675809	0.5279961	-0.1478129
0.000619	0.00704	21.52586	32.0808	0.7727245	0.7173198	0.6237964	-0.09352347
0.000511	0.00041	33.87844	32.91632	0.1955194	0.0690412	0.1817386	0.1126974
0.005286	0.00705	21.52066	22.76858	0.3945271	0.343807	0.3977047	0.05389771
0.045705	0.04416	13.54941	13.40038	0.0944527	0.1868009	0.0930928	-0.09370804
0.045297	7.65E-05	41.16547	13.43935	0.1416835	0.2952338	0.3473969	0.05216318
0.001793	0.00195	27.10035	27.46515	0.8801374	0.9503232	0.879905	-0.07041815
0.038375	0.0011	29.59216	14.15952	0.7778177	0.558718	0.6461805	0.08746254
0.026961	0.02684	15.71239	15.69265	0.4510346	0.3012049	0.4522274	0.1510225
0.009404	0.01336	18.74316	20.26687	0.623969	0.6886212	0.6130765	-0.07554466
0.001498	0.00117	29.30991	28.24522	0.7685354	0.8570483	0.7770233	-0.08002503
0.019893	0.00133	28.75218	17.01293	0.6384424	0.4713457	0.3699332	-0.1014125
0.022822	0.00918	20.37041	16.41643	0.8421051	0.7858557	0.6500161	-0.1358396
0.017205	0.00216	26.65522	17.6435	0.8859873	0.7203388	0.8225939	0.102255
0.017669	0.00089	30.49837	17.52794	0.8218107	0.7461534	0.6549012	-0.09125219
0.036103	0.02507	16.00775	14.42453	0.3554668	0.2564481	0.3549889	0.09854074
0.008609	0.01576	18.0236	20.65032	0.7399936	0.8374478	0.7309581	-0.1064897
0.012729	0.03969	14.01322	18.95196	0.7163376	0.5770438	0.3848585	-0.1921854
0.004009	7.97E-06	50.98623	23.96948	0.1542979	0.0800335	0.130769	0.05073548
0.017568	0.02945	15.30974	17.55274	0.7266204	0.8597132	0.7161306	-0.1435826
0.048306	0.0286	15.43567	13.15997	0.6722566	0.7514215	0.6851222	-0.06629927
0.006068	0.01645	17.8375	22.16925	0.4493787	0.502635	0.4411335	-0.06150147
0.010534	0.00078	31.08929	19.77416	0.2192471	0.0892377	0.1686705	0.07943282
0.042313	0.01903	17.20569	13.73523	0.8295392	0.7417114	0.8075401	0.06582866
0.019267	0.0056	22.51438	17.15196	0.6581542	0.5146034	0.4195492	-0.0950542
0.036358	0.0003	35.25785	14.39398	0.8125899	0.5823539	0.513594	-0.06875992
0.02224	1.01E-05	49.95686	16.52856	0.869262	0.564405	0.4834868	-0.08091823
0.007498	0.00281	25.50868	21.25032	0.8821785	0.773109	0.6440896	-0.1290194
0.029275	0.01746	17.57941	15.33502	0.7941533	0.8761221	0.8047946	-0.07132747
0.044725	0.03311	14.8005	13.49454	0.8089351	0.8700942	0.8157606	-0.05433362
0.042367	0.00338	24.70984	13.72972	0.5782625	0.3828867	0.473937	0.09105036
0.015054	0.01517	18.18929	18.22354	0.7690452	0.8315468	0.7600637	-0.07148309
0.000855	0.00024	36.15321	30.67812	0.9119561	0.9745741	0.9241189	-0.05045518
0.007827	0.00913	20.39497	21.06383	0.6129409	0.7747504	0.6365153	-0.1382351
0.027918	0.00817	20.87739	15.54119	0.8593603	0.6290354	0.4428287	-0.1862067
0.003164	0.01176	19.29533	24.99809	0.6968431	0.7890597	0.6756123	-0.1134475
0.030582	0.02587	15.87262	15.14534	0.1698393	0.2547137	0.3472761	0.0925624
0.021968	0.02335	16.31707	16.58213	0.8402825	0.7705619	0.700591	-0.06997091
0.040634	4.56E-06	53.40847	13.91115	0.2074409	0.5919011	0.5178261	-0.07407489
0.03047	6.55E-07	61.83699	15.1613	0.86922	0.6251403	0.5366464	-0.08849394
0.027258	0.03577	14.46424	15.64509	0.8226397	0.7410731	0.658196	-0.0828771
0.003149	0.00368	24.34295	25.01805	0.2311203	0.1185137	0.2272415	0.1087278
6.75E-06	0.00101	29.96031	51.70643	0.1954399	0.1018833	0.1812307	0.07934735
0.022584	0.02557	15.92324	16.46201	0.5548156	0.6735848	0.5501211	-0.1234636
0.009707	0.00604	22.19058	20.1293	0.2943126	0.2378455	0.2919742	0.05412868
0.030221	0.00037	34.37304	15.19688	0.7051815	0.4589536	0.5634607	0.1045072

0.027489	0.02152	16.6716	15.60845	0.8517355	0.7494591	0.8425334	0.09307428
0.000114	0.00025	36.04704	39.43648	0.5436227	0.6296037	0.5335572	-0.09604656
0.000252	0.00151	28.21543	35.98251	0.526754	0.6431252	0.526706	-0.1164192
0.005456	0.00165	27.83723	22.63106	0.4824773	0.5664738	0.5051402	-0.06133353
0.003521	0.01311	18.82458	24.53382	0.5004914	0.6061823	0.4754051	-0.1307772
0.010218	0.00667	21.7585	19.90647	0.9105453	0.8499311	0.9050825	0.05515145
8.41E-05	3.11E-06	55.06571	40.75205	0.2084845	0.0875355	0.1731188	0.08558337
0.000564	0.00016	37.84593	32.48923	0.2020845	0.0753322	0.1772034	0.1018712
0.002674	0.01712	17.66433	25.72827	0.7556792	0.8160443	0.6997985	-0.1162458
0.001859	0.00014	38.43811	27.30628	0.757589	0.6700521	0.7358067	0.06575463
0.008972	0.00702	21.53716	20.47099	0.8240389	0.6776728	0.7978758	0.120203
2.51E-05	2.87E-05	45.41698	46.00914	0.5554034	0.6735313	0.5550039	-0.1185274
0.006234	0.00605	22.17983	22.05257	0.7810513	0.8901293	0.7885826	-0.1015467
0.005789	8.93E-05	40.49261	22.37421	0.8065578	0.7254773	0.7909232	0.06544593
0.001788	0.02316	16.35227	27.47517	0.1546819	0.2128022	0.1097057	-0.1030965
0.045333	0.00633	21.98568	13.43586	0.178589	0.2357775	0.3043721	0.06859456
0.014519	0.00107	29.72208	18.38077	0.1754864	0.3441102	0.4721214	0.1280112
0.013626	0.00032	34.98024	18.6564	0.6834827	0.5730544	0.5226616	-0.05039273
0.017035	0.00182	27.39003	17.68657	0.213311	0.114755	0.1682031	0.05344812
0.030753	0.04004	13.97485	15.12114	0.7456078	0.8181313	0.7348019	-0.08332936
0.035878	0.00017	37.68378	14.45175	0.7795379	0.6419232	0.5695999	-0.07232331
0.015524	0.00126	29.00581	18.08988	0.5788931	0.5057455	0.4506817	-0.05506372
0.014342	1.26E-07	69.0078	18.43404	0.1028971	0.5852212	0.6680861	0.08286497
0.002317	0.02928	15.3337	26.35062	0.6420356	0.5181521	0.6131515	0.09499944
0.00446	0.00727	21.38665	23.50695	0.7532362	0.8272801	0.7480341	-0.07924599
0.00039	0.00174	27.60411	34.08962	0.6935191	0.7655328	0.6704222	-0.0951106
0.002108	0.00215	26.66952	26.76053	0.8911036	0.943998	0.8928128	-0.05118522
0.047279	0.00719	21.43373	13.25333	0.6371619	0.7133967	0.6633086	-0.05008815
0.021776	0.0056	22.51876	16.62017	0.150647	0.0721612	0.1301662	0.05800502
0.027938	0.0111	19.54614	15.53811	0.0258488	0.1107269	0.189529	0.07880203
0.003351	0.00038	34.17223	24.74781	0.6530335	0.7739628	0.840899	0.06693618
0.033634	0.02341	16.30618	14.73222	0.9121217	0.8502242	0.9063609	0.05613674
0.039247	0.03062	15.13957	14.06194	0.4362643	0.2511487	0.4186127	0.167464
0.003297	0.00397	24.01421	24.81901	0.8688991	0.9275711	0.8654041	-0.062167
0.010187	0.00258	25.87559	19.91944	0.1670361	0.1001014	0.1574224	0.05732103
0.009384	0.0025	26.02575	20.27633	0.2175177	0.1038312	0.1712579	0.06742667
0.0248	0.04126	13.84491	16.05541	0.8397576	0.759042	0.6679155	-0.0911265
0.002075	9.96E-05	40.01804	26.83001	0.839989	0.8926407	0.8276244	-0.06501622
0.000127	0.00297	25.26933	38.97678	0.6467344	0.7388937	0.60913	-0.1297638
0.003625	0.00316	25.00167	24.40646	0.6118191	0.703358	0.6125116	-0.09084632
0.044777	0.00453	23.44001	13.48947	0.9103453	0.7758711	0.8434046	0.06753348
0.016408	0.00059	32.27257	17.84932	0.6879049	0.8249834	0.7538821	-0.07110126
0.005855	0.00909	20.41285	22.32468	0.3060421	0.3964286	0.2898765	-0.1065521
0.017945	0.00149	28.2742	17.46067	0.8319936	0.652895	0.5708899	-0.08200506
0.00058	0.00213	26.71421	32.36538	0.5212629	0.6605909	0.5102288	-0.1503621
0.040326	0.0009	30.44586	13.94413	0.1061319	0.2495346	0.3451109	0.09557632
0.001332	0.00132	28.79335	28.75474	0.5774861	0.6767572	0.5706143	-0.1061429
0.028646	0.03537	14.51323	15.42931	0.1310264	0.0680689	0.132314	0.06424514
1.04E-05	2.92E-05	45.34467	49.81807	0.4433071	0.5372285	0.4371819	-0.1000466
0.005076	0.00218	26.61721	22.94497	0.6540486	0.7290267	0.6640122	-0.06501453
0.018816	0.0448	13.48754	17.25474	0.7154987	0.6153402	0.7432812	0.127941
0.000434	0.00014	38.55241	33.6231	0.816399	0.9314739	0.8347971	-0.09667683
0.003712	0.00567	22.46738	24.30417	0.7128068	0.7836754	0.70812	-0.07555539
0.004054	0.00354	24.51231	23.92094	0.3536347	0.242807	0.3400691	0.09726218



0.009035	0.00921	20.35887	20.44077	0.8568837	0.7033453	0.5547785	-0.1485668
0.002211	0.00048	33.19827	26.55361	0.7652313	0.8887473	0.7763528	-0.1123945
0.00363	0.00011	39.47348	24.40063	0.2708483	0.3691452	0.4776749	0.1085296
0.002936	0.00027	35.6069	25.32201	0.1729433	0.0857924	0.1413541	0.05556165
0.037886	0.0199	17.01156	14.21525	0.0660942	0.1569054	0.0881576	-0.0687478
0.019464	0.01199	19.21007	17.10764	0.7927607	0.8854373	0.8076699	-0.07776739
0.028729	0.01352	18.68913	15.41683	0.1191013	0.1846022	0.1297985	-0.05480369
0.03213	0.00341	24.67517	14.93095	0.6991858	0.5140604	0.4302808	-0.08377959
0.028658	0.00241	26.1885	15.4275	0.1828308	0.0769866	0.1277204	0.05073376
0.013996	0.01561	18.06602	18.54009	0.699805	0.8193741	0.6943156	-0.1250584
0.007648	0.00886	20.52385	21.16434	0.8133904	0.901686	0.8164576	-0.08522838
0.015239	0.00213	26.71841	18.17042	0.844672	0.7590558	0.8162024	0.05714662
0.010359	0.01424	18.46482	19.84671	0.0875084	0.3001116	0.4974024	0.1972908
0.035805	0.00109	29.63295	14.46052	0.7814469	0.6253009	0.6925836	0.0672827
0.028147	0.03174	14.98435	15.50572	0.4050702	0.3046445	0.4153189	0.1106744
0.035456	0.03656	14.37013	14.50314	0.7385783	0.808458	0.732836	-0.07562204
0.024995	0.00906	20.42785	16.02147	0.6173823	0.7280764	0.6472555	-0.08082089
0.002679	0.01385	18.58682	25.72087	0.8399151	0.7497841	0.8209321	0.07114805
1.97E-05	9.82E-06	50.07697	47.05573	0.8609955	0.7728183	0.8479286	0.0751103
0.000933	0.00055	32.62667	30.30023	0.6695365	0.867372	0.681695	-0.185677
0.016629	0.00034	34.74309	17.79136	0.8814793	0.7745289	0.8275661	0.05303727
0.017938	0.01152	19.3846	17.46219	0.170293	0.0875761	0.1577899	0.07021382
0.000271	0.00042	33.77641	35.67714	0.3223001	0.0706695	0.2533455	0.182676
0.012759	0.00025	36.03705	18.94173	0.6178611	0.6849282	0.6294031	-0.05552512
0.010306	0.04086	13.88719	19.86911	0.9016638	0.819309	0.6921937	-0.1271153
3.68E-06	3.38E-06	54.71064	54.33946	0.7288513	0.8263457	0.7108786	-0.1154672
0.000166	0.00026	35.81877	37.80318	0.7866232	0.9034727	0.7807449	-0.1227279
0.020031	0.00205	26.88438	16.98305	0.8509647	0.6179023	0.5066053	-0.1112971
0.022267	0.00131	28.83494	16.52342	0.8359378	0.5656634	0.7026489	0.1369855
0.04867	0.01584	18.00273	13.12742	0.8112575	0.7157311	0.6354056	-0.08032557
0.026711	0.00657	21.82142	15.73312	0.2543393	0.4092007	0.5194412	0.1102405
0.031852	0.0145	18.38538	14.9686	0.356435	0.2119216	0.3162902	0.1043686
0.03008	0.00729	21.37041	15.21723	0.8796277	0.7202029	0.6164717	-0.1037311
0.003237	0.00158	28.02513	24.89832	0.9050064	0.9557732	0.9057263	-0.050047
0.019308	0.00782	21.07005	17.1426	0.7192656	0.6208208	0.7015151	0.0806943
0.003898	0.03521	14.53386	24.09212	0.7857425	0.7304609	0.6173619	-0.113099
0.003781	0.00083	30.82254	24.22389	0.0698603	0.4449637	0.6440524	0.1990887
0.0034	0.00233	26.33023	24.68468	0.73757	0.8997794	0.7492877	-0.1504917
0.0319	1.41E-05	48.50794	14.96204	0.1148105	0.311994	0.3745584	0.06256435
0.005108	0.00282	25.49792	22.91773	0.5119043	0.603148	0.5254837	-0.07766437
0.006284	0.02269	16.44107	22.01774	0.8400015	0.7411013	0.5894997	-0.1516016
0.000253	0.00212	26.73544	35.96281	0.6135987	0.7080557	0.5646586	-0.1433971
0.007394	0.0037	24.31798	21.31129	0.2822274	0.1879672	0.2564412	0.0684741
0.000264	1.24E-05	49.06928	35.78962	0.8897237	0.9695217	0.9170613	-0.05246038
0.000151	0.00036	34.38228	38.22446	0.780141	0.7239208	0.7806069	0.05668613
0.000129	0.0009	30.47567	38.90215	0.6623273	0.7440892	0.6313471	-0.1127421
0.028206	0.0105	19.79008	15.49652	0.8748472	0.8041822	0.8617529	0.05757073
0.008135	0.00272	25.66073	20.89618	0.8042032	0.7199805	0.788601	0.06862053
0.013888	0.04958	13.04712	18.5737	0.6945787	0.5669262	0.6442187	0.07729243
0.049368	0.01253	19.02073	13.06554	0.8742625	0.7296789	0.6462995	-0.08337937
0.026417	0.02428	16.14697	15.78109	0.7756622	0.8816043	0.7801066	-0.1014976
0.043674	0.01563	18.0602	13.59777	0.0516447	0.116066	0.199114	0.08304802
7.79E-05	1.49E-06	58.26949	41.08224	0.7646355	0.95536	0.8220966	-0.1332635
0.035707	0.00684	21.64784	14.47245	0.8475659	0.7443979	0.8079454	0.0635475

0.040851	0.02779	15.5604	13.88795	0.0720127	0.1414091	0.0837613	-0.05764787
0.009707	0.00017	37.7673	20.12898	0.1265347	0.2644285	0.3339701	0.06954158
0.006787	0.0187	17.28244	21.68318	0.7502728	0.8006279	0.7356824	-0.06494553
0.000852	5.64E-05	42.487	30.69309	0.7948058	0.6656911	0.7450045	0.07931338
0.000227	0.00465	23.32515	36.44209	0.9337206	0.819412	0.6655412	-0.1538708
0.030772	0.01467	18.33636	15.11848	0.8142332	0.7422118	0.799982	0.0577702
0.041605	0.02917	15.35005	13.80857	0.9285102	0.8179739	0.7289483	-0.08902566
0.014555	0.01223	19.12419	18.36996	0.3313792	0.1922861	0.3252839	0.1329977
1.40E-05	8.83E-05	40.54225	48.55053	0.1308587	0.0545555	0.1088874	0.05433188
0.001635	1.92E-05	47.17523	27.86355	0.1658736	0.0486081	0.0994177	0.05080954
0.013707	0.01908	17.19463	18.63069	0.8751138	0.8092109	0.8734437	0.06423279
0.000212	0.01033	19.85722	36.74349	0.6039717	0.7364414	0.5123326	-0.2241087
0.04112	0.04883	13.11341	13.85945	0.8727166	0.7607661	0.8834426	0.1226764
0.027905	0.0219	16.59542	15.54319	0.9129052	0.7799762	0.8972088	0.1172326
0.040841	0.03134	15.03864	13.88903	0.6803667	0.6094977	0.6730674	0.06356966
0.00653	0.0009	30.48108	21.851	0.7466878	0.6247227	0.7059966	0.08127397
0.033887	0.03018	15.20289	14.69965	0.8419668	0.7610955	0.8436382	0.08254268
0.027265	0.0054	22.67627	15.64392	0.8963774	0.8046215	0.7221518	-0.08246966
0.016505	0.01231	19.09676	17.82375	0.3062025	0.4803664	0.6399621	0.1595957
0.009933	4.49E-05	43.48127	20.0292	0.6836466	0.3862959	0.2768777	-0.1094182
0.003548	0.00665	21.77266	24.49981	0.3757516	0.4550225	0.3746134	-0.08040909
0.000455	0.00045	33.49986	33.42341	0.5555715	0.619644	0.5530851	-0.06655892
0.048688	0.01074	19.69127	13.12576	0.6967773	0.5986211	0.6608952	0.06227406
0.026402	0.01247	19.04254	15.7836	0.2414879	0.1729434	0.2405026	0.06755917
0.000459	9.53E-05	40.20894	33.37899	0.8203388	0.9218989	0.8430778	-0.07882109
0.001111	0.01699	17.69734	29.54447	0.7031972	0.7642527	0.6596374	-0.1046153
0.015724	0.01218	19.14316	18.03443	0.7706119	0.8545647	0.7704717	-0.08409301
0.001932	6.00E-05	42.2149	27.14052	0.8244793	0.6313657	0.5141391	-0.1172266
0.01304	0.01327	18.77237	18.84736	0.8240957	0.9026897	0.8242594	-0.07843032
9.39E-06	2.03E-07	66.9156	50.27409	0.1721675	0.0925743	0.1590873	0.06651303
0.009407	0.02117	16.74369	20.26543	0.6807039	0.746758	0.6705311	-0.07622699
0.022781	0.01078	19.67381	16.42436	0.7890127	0.8788638	0.8066001	-0.07226374
0.003912	0.00268	25.72416	24.07556	0.7818644	0.8603282	0.7864711	-0.07385702
0.048614	0.00706	21.51299	13.13236	0.9371201	0.8170226	0.7432747	-0.07374799
0.029803	0.00553	22.57092	15.25742	0.7729383	0.5996115	0.4869594	-0.1126521
0.001098	0.00019	37.20103	29.59356	0.1872531	0.1083129	0.1694824	0.0611695
0.002732	0.00675	21.70952	25.63455	0.5149862	0.4076781	0.2676878	-0.1399903
0.00131	0.00063	32.01893	28.82705	0.657271	0.7444885	0.6634576	-0.08103098
0.033647	0.00868	20.61356	14.73059	0.8186712	0.5126255	0.3060197	-0.2066057
0.023987	0.02213	16.55006	16.20015	0.8238358	0.9327946	0.8390403	-0.09375423
0.003571	0.00079	31.03233	24.47183	0.8699345	0.7722022	0.8453587	0.07315654
0.002914	6.35E-06	51.97049	25.35549	0.0788348	0.371376	0.4837222	0.1123462
0.011891	0.02343	16.30249	19.2479	0.6770178	0.7511306	0.6721632	-0.07896748
0.018798	5.52E-05	42.58173	17.25878	0.2548135	0.5455574	0.6358291	0.09027174
0.008052	0.00423	23.7369	20.94092	0.5462388	0.4930561	0.5478705	0.05481431
0.04361	0.03437	14.63782	13.6041	0.8578511	0.790509	0.8556029	0.06509396
0.003037	0.0004	33.99051	25.17611	0.5452327	0.6327457	0.4890856	-0.1436602
0.027031	0.00178	27.48601	15.6813	0.7586027	0.6091187	0.6909441	0.08182544
0.007343	0.00247	26.06753	21.34145	0.8114618	0.8878818	0.8205545	-0.0673273
0.030556	1.52E-06	58.18185	15.14901	0.1356483	0.3988503	0.4754969	0.07664657
0.039388	0.01655	17.811	14.04634	0.9039479	0.814475	0.7401962	-0.07427879
0.027087	0.01402	18.53251	15.67244	0.8949943	0.7882906	0.7053243	-0.08296634
0.002556	0.00172	27.63236	25.92388	0.82261	0.8831537	0.8242648	-0.05888887
0.005958	0.01302	18.85307	22.24883	0.6827767	0.8030432	0.6694671	-0.1335761

0.011686	0.00599	22.22505	19.3232	0.6050268	0.6794045	0.6063197	-0.07308479
0.035945	0.01432	18.44057	14.44357	0.633504	0.7401939	0.659577	-0.08061694
0.005592	0.0169	17.72068	22.52397	0.8911143	0.9458703	0.8847284	-0.06114196
0.015618	0.00074	31.30961	18.06375	0.8321005	0.5981609	0.7386466	0.1404857
0.016818	0.00842	20.74518	17.74215	0.8643971	0.9198453	0.8688438	-0.05100151
0.000579	0.0007	31.54775	32.37374	0.0799263	0.1852012	0.3051802	0.119979
0.020636	0.00265	25.76943	16.85375	0.7692936	0.5981656	0.7082782	0.1101126
0.024437	0.0003	35.24826	16.11949	0.7711911	0.6383895	0.6919409	0.05355143
0.036457	0.01462	18.34924	14.38223	0.8896154	0.8037342	0.8668842	0.06315006
0.003949	0.00374	24.27309	24.03488	0.8386919	0.7862642	0.8424441	0.05617995
9.27E-06	2.79E-07	65.54758	50.33124	0.6160995	0.7960964	0.6560413	-0.1400551
0.016453	0.0032	24.94258	17.83743	0.8596286	0.7933455	0.7123458	-0.08099976
0.006694	0.00201	26.97316	21.74334	0.8539048	0.7157903	0.6098683	-0.1059221
0.003957	0.00252	25.98772	24.0262	0.6157806	0.7784944	0.6019811	-0.1765133
4.14E-05	0.00044	33.57913	43.83472	0.7457408	0.8349769	0.7097915	-0.1251854
0.038615	0.03238	14.89775	14.13247	0.8069571	0.6400099	0.4900643	-0.1499456
0.002317	0.04072	13.90187	26.35116	0.6962594	0.7615106	0.6362307	-0.1252799
0.041413	0.01127	19.47988	13.82865	0.8070277	0.6443111	0.7554139	0.1111028
0.013911	0.00835	20.78509	18.56636	0.1155504	0.3452735	0.5245389	0.1792654
0.025528	0.0138	18.59969	15.92976	0.3755493	0.2499494	0.3546335	0.1046842
0.001731	0.00355	24.49707	27.6175	0.7302533	0.8172162	0.7197426	-0.09747361
0.004539	0.00312	25.05801	23.42994	0.1919581	0.0904498	0.1810009	0.09055112
0.0194	0.00066	31.77464	17.1219	0.8362694	0.7235075	0.7765667	0.05305922
0.012218	0.03503	14.55588	19.12992	0.6607057	0.7411596	0.801475	0.06031536
0.014014	0.01145	19.41023	18.53453	0.7360332	0.8649713	0.7394589	-0.1255125
0.030896	0.01291	18.88908	15.10094	0.8557498	0.7819881	0.8409725	0.05898438
0.005055	0.01382	18.59534	22.96247	0.9457369	0.8621417	0.7578045	-0.1043372
0.009658	0.01077	19.67658	20.15094	0.1473067	0.2402345	0.3743748	0.1341403
0.029753	0.01688	17.72638	15.26465	0.8660024	0.7478444	0.6452507	-0.1025937
0.028795	0.01594	17.97564	15.40686	0.5832837	0.6637338	0.5951387	-0.06859511
0.002234	0.00802	20.95862	26.5092	0.5925887	0.6777701	0.5892094	-0.08856072
0.004624	0.00357	24.47554	23.34967	0.598197	0.7517346	0.6261437	-0.1255908
0.013482	0.0156	18.06878	18.70239	0.7664971	0.8401991	0.7575547	-0.0826444
0.00287	0.00099	30.0293	25.42079	0.7364199	0.5738358	0.7400428	0.166207
0.026417	0.01244	19.05178	15.7811	0.2033327	0.0936132	0.1876854	0.09407225
0.026242	0.0223	16.51763	15.80998	0.7443041	0.8201595	0.7357693	-0.08439013
0.023539	0.00681	21.66886	16.28207	0.7889403	0.6909825	0.7637643	0.07278175
0.0117	0.01893	17.22829	19.31797	0.3942071	0.2683769	0.3675322	0.0991552
0.046966	0.00491	23.09307	13.28218	0.7387598	0.5968294	0.6694162	0.07258687
0.044256	0.03559	14.48699	13.54028	0.1624767	0.1023447	0.1597929	0.05744811
0.045986	0.00028	35.60587	13.37374	0.724893	0.5037999	0.5792146	0.07541473
0.026114	0.00254	25.94478	15.8313	0.875213	0.7370712	0.6594075	-0.07766374
1.89E-05	0.00029	35.44101	47.22905	0.7037446	0.7698498	0.6892232	-0.0806266
0.034613	0.02374	16.24516	14.60763	0.8043271	0.7413083	0.7995116	0.0582033
0.000257	3.90E-05	44.08525	35.89966	0.0849585	0.4958423	0.6710984	0.175256
0.002087	0.00088	30.57175	26.80542	0.53524	0.8224815	0.5683743	-0.2541071
0.021064	0.01363	18.65651	16.76456	0.4272543	0.3274969	0.4108281	0.0833311
0.023539	0.01249	19.03294	16.28215	0.3097374	0.1762078	0.2834108	0.1072029
0.031529	0.00408	23.89667	15.01286	0.9068207	0.7499697	0.8268673	0.07689759
0.031504	0.0016	27.97076	15.01636	0.0678763	0.5012398	0.649048	0.1478082
0.001344	0.00573	22.4222	28.71545	0.8217331	0.7683898	0.8391522	0.07076231
0.025425	0.00544	22.64507	15.94739	0.8621315	0.7777147	0.8320169	0.0543022
0.000182	6.55E-06	51.8404	37.38993	0.8528112	0.5725721	0.4045762	-0.1679959
0.037073	0.0049	23.09523	14.30937	0.174102	0.0903793	0.1412902	0.050911

0.039811	3.41E-05	44.67678	13.99996	0.819784	0.6697938	0.7301359	0.06034206
0.018305	3.35E-06	54.75559	17.3742	0.1158845	0.3626081	0.4507774	0.08816932
0.029797	0.02429	16.14505	15.25835	0.6471492	0.7913947	0.6848214	-0.1065732
0.003466	0.00024	36.17358	24.60126	0.2554877	0.3372448	0.4283344	0.09108958
0.036791	0.03438	14.6365	14.3426	0.4047045	0.3495438	0.4055024	0.05595863
0.016837	0.00084	30.73689	17.73747	0.8132406	0.7208662	0.6484855	-0.07238069
0.005213	0.00322	24.91532	22.82897	0.1522974	0.0750031	0.1417987	0.0667956
0.025411	0.01736	17.60357	15.94984	0.1789638	0.1110985	0.1723661	0.06126766
0.017453	0.00101	29.93974	17.58139	0.7584464	0.5873822	0.5158881	-0.07149411
0.04448	0.00713	21.46989	13.51834	0.9008378	0.7595851	0.8371812	0.07759616
0.022377	0.01548	18.1024	16.50199	0.6112102	0.6808357	0.7405387	0.05970302
0.021142	0.03493	14.56802	16.74863	0.8845306	0.7893652	0.6822093	-0.1071558
0.010092	0.00052	32.81607	19.96017	0.096953	0.3039168	0.4435036	0.1395868
0.02111	2.42E-06	56.15914	16.75521	0.6881086	0.3332047	0.3987609	0.06555623
0.03618	0.00058	32.39562	14.41533	0.1436045	0.5510275	0.3957802	-0.1552473
0.014311	0.00278	25.56228	18.44341	0.8720652	0.7500999	0.8211285	0.07102861
0.007668	0.00736	21.33267	21.15344	0.1974752	0.3128532	0.4232827	0.1104296
0.032895	0.0383	14.16818	14.82874	0.5542253	0.3912842	0.5605025	0.1692183
1.95E-05	1.95E-05	47.09099	47.10517	0.1250563	0.0562429	0.1298378	0.07359492
0.037369	0.0242	16.16118	14.27485	0.808566	0.8849407	0.8207236	-0.06421716
0.005243	0.00235	26.29522	22.80416	0.8621045	0.7486692	0.6104156	-0.1382536
0.002394	0.00058	32.34035	26.20909	0.7701714	0.8779702	0.794212	-0.08375813
0.032571	0.00613	22.12688	14.87167	0.7368565	0.629603	0.5670084	-0.0625946
0.027179	0.0018	27.438	15.65766	0.7762522	0.7085732	0.6286043	-0.0799689
0.039378	0.00033	34.79032	14.04745	0.5677528	0.8072038	0.6841331	-0.1230707
0.011004	0.01189	19.24957	19.58465	0.7021597	0.7656806	0.7010334	-0.06464721
0.021774	0.01719	17.64775	16.62063	0.8563646	0.7583865	0.841989	0.0836025
0.005756	0.00466	23.31459	22.3985	0.6362509	0.7517818	0.6319714	-0.1198104
0.006984	0.02952	15.29843	21.55921	0.3808457	0.4359421	0.5073714	0.07142926
0.014544	0.00558	22.53071	18.37328	0.3404599	0.2763624	0.3347606	0.05839814
0.041671	0.00026	35.86279	13.80166	0.8674152	0.5496137	0.4534923	-0.09612129
0.001888	0.0255	15.93539	27.24009	0.7273567	0.8019218	0.6764409	-0.1254809
0.014577	0.00491	23.08751	18.36328	0.1377639	0.2086376	0.1542978	-0.05433981
0.003342	0.00336	24.73396	24.76054	0.4418629	0.3141735	0.2106897	-0.1034838
0.03696	0.03232	14.90498	14.32272	0.8212066	0.6839319	0.8109813	0.1270494
0.042641	0.00966	20.15124	13.70169	0.860469	0.7469745	0.822323	0.07534847
0.000225	0.00014	38.67797	36.48032	0.458676	0.5623637	0.4542442	-0.1081195
0.002066	0.00258	25.88431	26.84885	0.5710843	0.6899822	0.5887414	-0.1012408
0.010946	0.00978	20.09591	19.60725	0.1950426	0.1056211	0.1876273	0.08200618
0.031595	0.02469	16.07439	15.00387	0.8761822	0.7740374	0.676793	-0.09724442
0.000362	0.00131	28.81678	34.41606	0.21923	0.1454784	0.2279644	0.08248603
7.63E-05	9.35E-06	50.29012	41.1763	0.2458796	0.0863974	0.2310679	0.1446704
0.02597	0.01441	18.41194	15.85528	0.5637718	0.4329508	0.3205025	-0.1124483
0.018843	0.02582	15.87967	17.24849	0.6557388	0.7355519	0.6474327	-0.08811913
0.015409	0.0415	13.8197	18.1224	0.4985977	0.5617996	0.6201332	0.05833357
0.018531	0.01591	17.98457	17.32105	0.0694242	0.1244455	0.2240388	0.09959324
0.000256	0.00727	21.38596	35.91429	0.7680646	0.6720337	0.7403565	0.06832278
0.029683	0.03337	14.76688	15.27493	0.1659064	0.2341347	0.3460658	0.1119311
0.00641	0.02435	16.13523	21.93162	0.7144886	0.6033522	0.6712135	0.06786127
0.001555	1.39E-05	48.56106	28.08397	0.6683201	0.8556828	0.696349	-0.1593338
0.001082	0.00189	27.23251	29.65725	0.4021754	0.2375949	0.3846638	0.1470688
0.039029	0.03343	14.75911	14.08614	0.9114767	0.8113828	0.9022183	0.09083554
0.013573	0.00735	21.33469	18.67337	0.4404468	0.688884	0.5003287	-0.1885553
0.006605	0.00085	30.70209	21.80114	0.6294758	0.6797232	0.6167038	-0.06301936

0.044628	0.00091	30.41216	13.50389	0.151332	0.2459489	0.3330177	0.08706885
0.012281	0.00188	27.26373	19.10763	0.5992762	0.8563056	0.9076155	0.05130994
0.000426	5.48E-07	62.60915	33.70838	0.1426683	0.0609232	0.1130518	0.05212865
0.011018	0.04995	13.01445	19.57882	0.9222962	0.8131044	0.6565702	-0.1565342
0.0124	0.01038	19.83861	19.0657	0.3207872	0.1698732	0.2999947	0.1301216
0.000322	8.74E-05	40.58389	34.92623	0.8554699	0.9372038	0.8706157	-0.06658809
0.009761	0.00967	20.14426	20.10494	0.4887961	0.3626262	0.4818483	0.1192221
0.000161	1.10E-05	49.57725	37.94409	0.6814462	0.7713175	0.6815943	-0.08972322
0.0139	2.66E-05	45.75208	18.56973	0.1043356	0.2106283	0.2685766	0.05794828
0.008524	0.02255	16.46857	20.69345	0.5804068	0.6617315	0.5591565	-0.102575
0.021823	0.00037	34.35715	16.61091	0.1513928	0.0383912	0.0912655	0.05287434
0.007925	0.00603	22.1986	21.00978	0.8738533	0.9293931	0.8775111	-0.05188196
0.010971	0.00308	25.10875	19.59741	0.8660359	0.9416723	0.8266003	-0.115072
0.019675	0.02402	16.19356	17.06094	0.9218006	0.8276235	0.7038177	-0.1238058
0.016236	0.00493	23.07407	17.89526	0.5276274	0.3644571	0.4753936	0.1109365
0.000176	0.00114	29.42609	37.53293	0.5279749	0.6139918	0.4822541	-0.1317377
0.024291	8.10E-06	50.91303	16.14563	0.4049248	0.6962917	0.625543	-0.07074867
0.000213	6.65E-05	41.76948	36.71354	0.8128916	0.8985369	0.8139374	-0.08459951
0.002846	6.18E-05	42.08841	25.45784	0.8623908	0.7011683	0.7956661	0.0944978
0.036645	0.01296	18.87522	14.35983	0.8124661	0.6943983	0.605803	-0.08859531
0.001025	0.00071	31.46909	29.89263	0.8677188	0.9374112	0.8746073	-0.06280396
0.01037	0.00119	29.23254	19.84223	0.1743547	0.1084737	0.1949701	0.08649634
0.02812	0.03651	14.37628	15.50989	0.1806779	0.1140291	0.187369	0.07333984
8.14E-05	0.00047	33.28841	40.89319	0.7863086	0.8799551	0.75769	-0.1222651
0.002429	0.01048	19.79553	26.14629	0.6027454	0.6577622	0.5840275	-0.07373462
0.000355	0.00037	34.32555	34.49328	0.8299186	0.9285532	0.8494259	-0.07912736
0.003516	0.00375	24.2617	24.54008	0.1503117	0.0860957	0.1458876	0.05979199
0.004123	0.00581	22.35526	23.84737	0.6274835	0.7719639	0.6234847	-0.1484793
0.010116	0.0177	17.5192	19.95007	0.8417537	0.9044432	0.8296852	-0.07475796
0.019473	0.00829	20.81449	17.10569	0.7968833	0.7276793	0.7826792	0.05499993
0.002591	0.0028	25.52384	25.86493	0.6286241	0.7315346	0.6345096	-0.09702507
0.03812	0.01862	17.29963	14.18843	0.8905863	0.7622946	0.6518601	-0.1104345
0.000254	3.27E-06	54.85036	35.95676	0.1173387	0.297708	0.4040244	0.1063164
0.04121	1.01E-05	49.96211	13.84999	0.8437667	0.7545726	0.6567911	-0.09778147
0.029886	0.01848	17.33217	15.24535	0.7810578	0.8552821	0.787918	-0.06736405
0.000349	0.00231	26.37094	34.56976	0.7034992	0.7970489	0.6675393	-0.1295096
0.000785	0.00011	39.56324	31.05335	0.1619344	0.0658425	0.1383396	0.0724971
0.007297	0.00522	22.82374	21.36827	0.175345	0.1060955	0.1609823	0.05488678
0.013718	0.01069	19.70919	18.62698	0.1723882	0.279359	0.1780953	-0.1012638
0.02695	0.00376	24.244	15.69434	0.7797167	0.6668674	0.7368062	0.06993874
0.015735	1.72E-06	57.63664	18.03126	0.4053016	0.6694073	0.7350733	0.06566603
0.011703	0.03322	14.78637	19.31712	0.6358856	0.7134264	0.6173542	-0.09607218
0.009854	0.02136	16.70404	20.06394	0.8640116	0.7560781	0.6227868	-0.1332912
0.000427	0.0023	26.38933	33.69686	0.6592022	0.7311716	0.6252741	-0.1058975
0.043397	0.04337	13.62829	13.62545	0.843963	0.754636	0.847371	0.09273496
0.018487	0.02338	16.31101	17.33141	0.6008604	0.4419245	0.6111295	0.169205
0.049231	0.00083	30.81835	13.07764	0.1033624	0.3280476	0.4250029	0.09695534
0.00163	0.00084	30.73678	27.87874	0.908612	0.965321	0.9140351	-0.05128585
0.017202	0.02111	16.75439	17.64414	0.8981923	0.82426	0.8996499	0.07538988
0.00024	6.73E-06	51.72247	36.18893	0.7021895	0.3822352	0.6478817	0.2656464
0.003792	0.00097	30.11449	24.21117	0.1412592	0.0556734	0.1166644	0.060991
0.026478	9.46E-05	40.23942	15.77117	0.8428932	0.7452072	0.6747426	-0.07046452
0.009256	0.00243	26.15101	20.33585	0.1979381	0.1145607	0.1778193	0.06325859
0.030909	3.07E-05	45.12738	15.09918	0.070892	0.3391072	0.4171674	0.07806023

0.005363	0.00649	21.88007	22.70628	0.6243762	0.7039073	0.6245537	-0.07935356
0.034044	0.03774	14.23247	14.67959	0.389097	0.5330005	0.6708397	0.1378392
0.004688	0.00356	24.49085	23.28987	0.3481079	0.5845213	0.3537192	-0.230802
0.030468	0.01422	18.47059	15.16156	0.881739	0.7173171	0.8435354	0.1262182
0.027842	0.01258	19.00405	15.55294	0.8547382	0.7268048	0.6220987	-0.104706
0.000315	1.81E-05	47.416	35.01872	0.2786544	0.1972532	0.2520033	0.0547501
0.000288	0.00259	25.87235	35.40972	0.8198973	0.8699771	0.7877417	-0.08223537
0.034738	0.00162	27.90786	14.59198	0.8431178	0.7364342	0.6755596	-0.06087457
0.017933	0.03194	14.95704	17.46356	0.6963548	0.7813037	0.687321	-0.09398266
0.010588	0.01246	19.04429	19.75205	0.2422874	0.1693743	0.2451359	0.07576159
0.023096	0.04872	13.1228	16.36463	0.152379	0.222953	0.1489943	-0.07395874
0.000998	0.00214	26.70358	30.00843	0.5986016	0.8150861	0.5826032	-0.2324828
0.033203	0.01912	17.18605	14.7882	0.9197375	0.8055141	0.6872531	-0.1182611
0.002667	0.00182	27.41079	25.73979	0.295363	0.1864283	0.2966176	0.1101893
4.68E-06	2.29E-06	56.39782	53.29885	0.1089314	0.0367682	0.1012937	0.06452555
0.00139	0.00032	34.95514	28.56917	0.6923209	0.4793579	0.3683846	-0.1109732
0.044718	0.00029	35.34266	13.49521	0.4305773	0.7140672	0.6166938	-0.09737334
0.010931	0.00347	24.59621	19.61349	0.7173668	0.8285594	0.7486405	-0.07991884
0.010107	0.00088	30.56874	19.95368	0.4191916	0.5212812	0.5876523	0.06637113
0.0045	0.00808	20.92466	23.46828	0.1627513	0.233345	0.3456734	0.1123284
0.015731	0.00011	39.75093	18.03253	0.8426915	0.7736309	0.6406739	-0.1329569
0.006753	0.00318	24.97721	21.70483	0.6936386	0.6117513	0.682018	0.07026671
0.021627	0.00211	26.75701	16.65001	0.8933198	0.714246	0.8066857	0.09243975
0.001981	0.00037	34.3219	27.03077	0.1909095	0.1118645	0.1696568	0.0577923
0.005491	0.00848	20.71411	22.60371	0.6635169	0.7667992	0.6533729	-0.1134264
0.045343	0.01859	17.30751	13.4349	0.8362997	0.7481001	0.8120526	0.0639525
0.049001	0.00937	20.28143	13.09797	0.740872	0.6538776	0.5907701	-0.06310753
0.031745	0.02813	15.50834	14.98328	0.8136096	0.7205382	0.8129213	0.0923831
0.030171	0.02292	16.39721	15.20404	0.603936	0.6680511	0.6090602	-0.05899089
0.006364	0.00311	25.07092	21.96276	0.7261239	0.8294831	0.7308281	-0.09865496
0.031821	0.00719	21.43264	14.97288	0.825888	0.7457419	0.8036842	0.05794227
0.006817	0.00072	31.44642	21.66435	0.5611259	0.4681155	0.5785305	0.110415
0.027472	0.04501	13.46696	15.61111	0.8860296	0.8333314	0.8939496	0.06061822
0.01072	0.0005	33.04739	19.69802	0.1515717	0.0679003	0.1288998	0.06099952
0.0304	0.02331	16.32445	15.17122	0.1437454	0.223043	0.1518766	-0.07116639
0.008961	0.00128	28.93696	20.47626	0.8656969	0.9542261	0.8995107	-0.05471532
0.048439	0.01167	19.32825	13.14807	0.8585	0.7168417	0.7989509	0.08210918
0.031514	0.03203	14.94463	15.01503	0.815044	0.8824611	0.8177677	-0.06469337
0.009949	0.01601	17.95733	20.02214	0.6819498	0.7665131	0.6686026	-0.09791056
0.007723	0.0166	17.79909	21.12195	0.6178945	0.7348449	0.5958312	-0.1390137
0.007017	0.00021	36.75681	21.53827	0.8216891	0.669046	0.7486527	0.07960673
0.011367	0.00021	36.81693	19.4435	0.8033188	0.7088915	0.7629231	0.05403158
0.01785	0.03962	14.02078	17.48352	0.1667037	0.2461701	0.3403706	0.09420054
0.002125	0.00167	27.7713	26.72549	0.7594591	0.8675973	0.7684278	-0.09916952
0.014323	4.16E-06	53.8083	18.43963	0.1714317	0.9283858	0.8660994	-0.06228634
0.000133	4.18E-05	43.78409	38.76922	0.14714	0.081115	0.1453892	0.06427427
0.046744	0.0027	25.68607	13.30272	0.6827163	0.8950302	0.8078003	-0.08722993
0.002415	0.00024	36.1865	26.17125	0.4461271	0.8041949	0.56958	-0.2346149
0.04825	0.0116	19.35393	13.16504	0.8392844	0.7100395	0.600309	-0.1097305
0.044051	0.00406	23.91923	13.56041	0.0598669	0.2051253	0.312249	0.1071236
0.00703	0.00405	23.92508	21.53071	0.2399622	0.1413534	0.2306068	0.08925346
0.019966	0.02634	15.79451	16.99711	0.7817115	0.8992463	0.7665829	-0.1326635
0.016819	0.0111	19.54488	17.74188	0.685707	0.7549468	0.6860105	-0.06893627
3.44E-05	1.27E-05	48.97583	44.6351	0.6556752	0.7421839	0.6644847	-0.07769917

0.01177	0.00416	23.81095	19.29221	0.1707725	0.1087119	0.1731077	0.0643958
0.020791	0.00775	21.10848	16.82125	0.5854311	0.6902732	0.6032183	-0.0870549
0.005927	0.0057	22.44128	22.27187	0.8190882	0.8977993	0.8152952	-0.08250406
0.004285	0.00408	23.8916	23.68058	0.7406892	0.6127213	0.4865545	-0.1261668
0.00255	0.00205	26.8882	25.93511	0.7790661	0.8413928	0.7702279	-0.07116488
0.020461	0.01301	18.85661	16.89067	0.791736	0.85519	0.7998884	-0.05530155
0.000215	0.02533	15.96342	36.68059	0.9412209	0.8867682	0.7478473	-0.1389209
0.006307	0.00474	23.24325	22.00195	0.7989125	0.8615539	0.8008631	-0.06069073
0.007301	0.00023	36.43599	21.36621	0.7381487	0.4871192	0.6190684	0.1319492
0.001365	0.00316	25.00487	28.64849	0.5945866	0.7644488	0.5985943	-0.1658545
1.92E-06	1.12E-05	49.50371	57.17115	0.1850726	0.0583253	0.1806415	0.1223162
0.02025	0.01382	18.5936	16.93575	0.7914589	0.8564687	0.7917455	-0.06472322
1.60E-05	2.86E-05	45.4391	47.95731	0.1811361	0.0965697	0.1705704	0.0740007
0.007717	0.04023	13.95461	21.12538	0.7984458	0.7377863	0.8420082	0.1042219
0.049288	0.00858	20.66628	13.07255	0.638262	0.8072103	0.7032763	-0.1039339
0.002806	0.00547	22.61817	25.51874	0.8325823	0.9000774	0.8288269	-0.07125049
0.001385	0.00014	38.41426	28.58666	0.2449435	0.0875504	0.1681794	0.08062907
0.000101	2.16E-05	46.65038	39.96519	0.1817808	0.1018578	0.1655553	0.06369742
0.005353	0.00183	27.37069	22.71402	0.752856	0.878915	0.7807919	-0.09812311
0.002222	0.00171	27.66613	26.53254	0.4151518	0.301623	0.4319724	0.1303494
0.03653	0.00542	22.66021	14.37351	0.8356737	0.7024986	0.5997548	-0.1027439
0.002145	0.00148	28.28679	26.68672	0.5411379	0.6658051	0.5473791	-0.118426
0.004062	0.00031	35.12917	23.91267	0.8536485	0.5863361	0.4352149	-0.1511212
0.007599	0.00279	25.5502	21.1927	0.2974524	0.0962124	0.2622973	0.1660849
0.028659	0.02046	16.89161	15.42738	0.700461	0.7872034	0.7067429	-0.08046056
0.008192	0.03037	15.17601	20.86584	0.8562067	0.9221528	0.8356755	-0.08647733
0.022043	0.00077	31.11587	16.5672	0.877722	0.7685256	0.6962464	-0.07227924
0.001518	1.04E-05	49.83949	28.18627	0.8392046	0.9027911	0.843021	-0.05977007
0.03852	0.00246	26.09302	14.14314	0.0629591	0.5009409	0.656053	0.1551121
9.87E-05	3.35E-07	64.74862	40.05565	0.2002604	0.0953508	0.1623974	0.06704658
0.004344	0.00506	22.95925	23.62102	0.5953671	0.754958	0.6108744	-0.1440836
0.034663	0.02822	15.49419	14.60134	0.9163803	0.748047	0.6033483	-0.1446987
0.000469	0.00036	34.44844	33.29015	0.650538	0.7812927	0.6510335	-0.1302592
0.030419	0.00993	20.03219	15.16861	0.1665899	0.4162266	0.2349769	-0.1812497
0.00223	0.0004	34.02449	26.51792	0.166607	0.0781589	0.1500977	0.0719388
0.0172	0.00024	36.21439	17.64474	0.7520193	0.5110251	0.6200601	0.109035
0.007158	0.0013	28.84397	21.45205	0.784174	0.7054341	0.7605708	0.05513673
0.037224	0.03868	14.12467	14.29179	0.4098642	0.5984771	0.4187205	-0.1797566
0.018277	0.0135	18.69797	17.38105	0.2625805	0.1595537	0.2660798	0.1065261
0.001753	0.00639	21.9445	27.56237	0.8397521	0.923338	0.8014235	-0.1219145
0.049018	2.27E-05	46.43451	13.09643	0.5062222	0.7925707	0.7276578	-0.0649129
0.028229	0.02456	16.09725	15.49302	0.8220732	0.7444643	0.8201892	0.0757249
0.008974	0.00079	31.02584	20.47001	0.1985373	0.348194	0.4315184	0.0833244
0.009873	0.03496	14.56457	20.05567	0.2540753	0.4005936	0.5901995	0.1896058
0.007813	0.00496	23.0469	21.07194	0.8411061	0.7589698	0.8380134	0.0790435
7.47E-05	3.40E-05	44.67941	41.26686	0.6750153	0.7775291	0.6792995	-0.09822961
0.027847	0.03773	14.23286	15.55225	0.807071	0.7535681	0.8120418	0.05847366
0.011469	0.00028	35.49791	19.40478	0.6335742	0.7607391	0.8243543	0.06361517
0.012962	0.01574	18.03108	18.87313	0.8182172	0.7108954	0.8172119	0.1063165
0.037915	0.01426	18.45913	14.21194	0.9215498	0.8365828	0.704968	-0.1316148
0.048975	0.01198	19.21711	13.10023	0.8497956	0.7825709	0.6929007	-0.08967019
0.011932	0.04411	13.55427	19.23279	0.4112296	0.336472	0.4425665	0.1060945
0.000155	3.81E-06	54.19496	38.10899	0.1221873	0.0470109	0.1017568	0.05474586
0.028993	0.02209	16.55876	15.37702	0.8918144	0.7747905	0.8778093	0.1030188

0.003677	0.00624	22.04523	24.34555	0.8338476	0.9111843	0.8331956	-0.07798864
0.009094	0.00052	32.84317	20.41253	0.481005	0.5937248	0.5309374	-0.06278743
0.002915	0.00252	25.99198	25.35369	0.8900838	0.6767882	0.5040175	-0.1727706
0.00048	0.00035	34.56628	33.192	0.8201846	0.922877	0.8186694	-0.1042077
0.025029	0.03641	14.38753	16.01564	0.6379376	0.6968459	0.6312571	-0.06558891
0.016931	0.02577	15.88832	17.71305	0.2004788	0.263858	0.3493038	0.08544576
0.00057	0.00993	20.03072	32.44207	0.5670415	0.6430045	0.5514973	-0.09150715
0.023241	0.00683	21.65741	16.33742	0.6581779	0.579695	0.515739	-0.06395593
0.006486	0.01697	17.70268	21.88055	0.43469	0.540756	0.4172821	-0.1234739
2.98E-05	9.70E-09	80.13172	45.26331	0.2462556	0.1259073	0.2234313	0.097524
0.006834	0.00324	24.89553	21.65343	0.8617967	0.7825207	0.843382	0.06086129
0.033645	0.02043	16.89642	14.73082	0.1557171	0.0904047	0.1450934	0.0546887
0.001205	0.00321	24.93308	29.18971	0.2494597	0.3452474	0.2277676	-0.1174799
0.046447	0.03228	14.91069	13.33042	0.8362806	0.7770281	0.8298696	0.05284156
0.002297	0.00428	23.68811	26.38752	0.5785455	0.6721698	0.5606834	-0.1114863
0.015393	0.00563	22.49562	18.12664	0.8230712	0.7060879	0.7964731	0.09038515
0.01129	0.00112	29.50644	19.4729	0.6302447	0.3828481	0.5257716	0.1429234
0.039674	0.00209	26.79523	14.01498	0.0624018	0.3938539	0.5129763	0.1191224
0.00015	2.84E-05	45.47042	38.24191	0.6999851	0.8210862	0.7261432	-0.09494295
0.00072	0.0004	33.98922	31.42606	0.8072678	0.7321663	0.7854205	0.0532541
0.013472	0.0026	25.84493	18.70572	0.8219937	0.479245	0.285888	-0.1933571
0.036894	0.02705	15.67753	14.33048	0.88289	0.773072	0.8686301	0.09555811
0.0137	0.00936	20.2851	18.63283	0.0768934	0.204108	0.3054608	0.1013528
0.025414	0.00909	20.41241	15.94935	0.7731762	0.5765586	0.7240738	0.1475151
0.000109	0.00297	25.27608	39.6293	0.6795148	0.7809234	0.6169972	-0.1639262
0.037969	0.00147	28.33435	14.20574	0.151237	0.4990026	0.6468258	0.1478232
0.006804	0.00041	33.91458	21.67224	0.2871977	0.1195051	0.2132667	0.09376161
0.018847	0.02415	16.17097	17.2475	0.6068734	0.6749173	0.6000353	-0.07488196
0.002469	8.04E-06	50.94857	26.07561	0.8671035	0.6894204	0.5625794	-0.126841
0.003138	0.00266	25.75306	25.03366	0.8351811	0.7648456	0.8336681	0.06882249
0.000457	0.00152	28.18918	33.40496	0.8004328	0.9162609	0.8083482	-0.1079127
0.046164	0.02612	15.83007	13.35699	0.5218754	0.4611751	0.5116685	0.05049338
0.000124	0.00629	22.01227	39.04903	0.6074958	0.6718779	0.54342	-0.128458
0.04828	5.42E-05	42.65967	13.16229	0.7290879	0.5428244	0.6089287	0.06610429
0.001764	0.00462	23.35668	27.53418	0.1284039	0.0779272	0.1418846	0.06395745
0.015945	0.02236	16.50453	17.97367	0.8764942	0.69569	0.5043316	-0.1913585
0.003881	0.00994	20.02579	24.11059	0.4490891	0.6436663	0.4394586	-0.2042076
0.033395	0.01056	19.76386	14.76321	0.7391284	0.8462371	0.764102	-0.08213508
0.004895	0.00303	25.19258	23.10246	0.320097	0.2032431	0.3104195	0.1071764
1.51E-05	1.87E-05	47.29139	48.20333	0.1456328	0.0437135	0.1384685	0.09475502
0.011813	0.02688	15.70605	19.27627	0.3306306	0.2785086	0.1949518	-0.0835568
0.013859	0.00751	21.24388	18.58284	0.539178	0.7891425	0.5867124	-0.2024301
2.80E-06	1.85E-06	57.33679	55.52855	0.6516678	0.8260501	0.6585038	-0.1675463
0.04405	0.00757	21.20732	13.56051	0.7994141	0.5130071	0.3383612	-0.1746459
0.009258	0.00676	21.69808	20.33501	0.5450308	0.7272231	0.554662	-0.1725611
0.009275	0.01804	17.4376	20.32701	0.5845892	0.3761649	0.1457341	-0.2304308
0.01539	0.01451	18.38218	18.12761	0.1405519	0.2380517	0.3292617	0.09121001
0.003552	0.00996	20.01768	24.49568	0.8461624	0.7657118	0.8549502	0.08923841
0.019329	0.0017	27.69739	17.13787	0.774739	0.8665123	0.8092067	-0.05730563
0.000377	0.0003	35.26274	34.23741	0.5472725	0.7019217	0.5808797	-0.121042
0.006046	0.00955	20.19995	22.18501	0.5429389	0.6679339	0.5505256	-0.1174083
0.006703	0.00926	20.333	21.73743	0.8111941	0.5968314	0.8122075	0.215376
0.001285	0.0005	32.98215	28.91164	0.688714	0.5777191	0.6723306	0.0946115
0.033451	0.00666	21.76468	14.7559	0.8354107	0.7294713	0.8002185	0.07074725



0.000974	0.00092	30.34503	30.11466	0.1499613	0.0783733	0.1498729	0.07149962
0.002387	0.00612	22.13261	26.22072	0.8142364	0.8746964	0.8033355	-0.0713609
0.012094	0.00464	23.33813	19.17414	0.5244122	0.6781344	0.5643114	-0.113823
0.020271	0.00633	21.98474	16.9313	0.0441756	0.1989284	0.2939057	0.09497728
0.004498	0.01228	19.10851	23.46993	0.6124497	0.6691504	0.5771067	-0.09204367
0.000244	0.00023	36.46077	36.12406	0.5118861	0.7416041	0.817057	0.07545281
0.02803	0.00191	27.18072	15.52375	0.7973803	0.6601098	0.7398892	0.07977942
0.00222	0.00119	29.26201	26.53695	0.7777563	0.8746783	0.7527882	-0.1218901
0.00574	0.03395	14.69139	22.41093	0.8692471	0.7591602	0.5870643	-0.1720958
0.01862	0.00134	28.74342	17.30028	0.5847754	0.658954	0.5796886	-0.07926541
0.022147	0.0176	17.54473	16.54676	0.8492103	0.7932151	0.8479076	0.05469251
0.005911	0.00325	24.87768	22.28363	0.5332919	0.6100453	0.5329472	-0.07709802
0.005071	0.04691	13.28715	22.94874	0.7869303	0.8492944	0.7355263	-0.1137681
0.020582	0.00019	37.16771	16.86519	0.8526623	0.6944696	0.6040064	-0.09046319
0.00488	1.16E-07	69.34097	23.11579	0.2288713	0.7273273	0.8207789	0.09345157
0.017372	0.00626	22.0328	17.60163	0.8499284	0.695103	0.805401	0.110298
0.004996	0.01022	19.907	23.01383	0.8559672	0.7655621	0.6666583	-0.09890381
0.001173	0.00641	21.92829	29.30575	0.7442741	0.7978315	0.7192468	-0.07858475
0.022557	0.02629	15.80183	16.46719	0.7617884	0.7041159	0.7652174	0.06110153
0.023625	0.00052	32.81585	16.26632	0.8806652	0.6702624	0.5913399	-0.07892243
0.007813	0.0087	20.60392	21.07195	0.1837233	0.316092	0.1769782	-0.1391137
0.019665	0.00111	29.55527	17.06296	0.6853393	0.5273829	0.6148258	0.08744304
0.025974	0.00868	20.61726	15.85461	0.2178383	0.1168527	0.20315	0.08629733
0.017837	0.01349	18.70076	17.48684	0.8136357	0.7026003	0.5957721	-0.1068282
0.011805	0.00547	22.62082	19.2795	0.3059901	0.4272423	0.5246519	0.09740958
0.031191	0.03344	14.75788	15.05965	0.8299972	0.7763724	0.6989447	-0.07742766
0.000117	0.00048	33.18499	39.32489	0.852436	0.9236973	0.8540844	-0.0696129
6.01E-06	2.78E-06	55.55947	52.20928	0.5592428	0.6392787	0.5639223	-0.07535642
0.016127	0.03191	14.9614	17.92443	0.7864845	0.8470935	0.7724887	-0.07460486
0.008582	0.00639	21.94302	20.66401	0.6961873	0.7552461	0.6969281	-0.05831794
0.022374	0.00025	35.95625	16.50252	0.1667541	0.1119428	0.1779607	0.06601788
0.046273	0.01141	19.42774	13.34668	0.9105711	0.6984225	0.559211	-0.1392115
0.012116	0.00079	31.03567	19.16639	0.8523599	0.669913	0.7763327	0.1064197
0.037355	0.04637	13.33739	14.2765	0.8187729	0.730529	0.8237292	0.09320027
2.02E-05	3.17E-05	44.98801	46.95685	0.7796393	0.8694395	0.7515907	-0.1178489
1.16E-05	2.81E-06	55.50843	49.35027	0.2753191	0.1107758	0.2548638	0.144088
0.003603	0.00656	21.83009	24.4337	0.8926607	0.6633958	0.4585622	-0.2048336
0.01901	6.12E-05	42.1313	17.21017	0.6476489	0.7596168	0.6954408	-0.06417599
1.68E-05	3.55E-06	54.49634	47.73522	0.7097878	0.7936715	0.7251878	-0.06848375
2.80E-05	0.00022	36.48763	45.5262	0.6510826	0.7868418	0.636883	-0.1499588
0.039939	0.00044	33.54924	13.98599	0.6017383	0.3462317	0.2646745	-0.08155718
0.018226	0.00334	24.7601	17.39303	0.7359164	0.6445417	0.5661154	-0.07842632
0.009647	0.01164	19.34034	20.15613	0.2610771	0.1976728	0.2589191	0.06124633
0.043249	1.01E-06	59.96955	13.64028	0.8124935	0.6346511	0.6895673	0.05491617
0.039525	0.00041	33.90005	14.03129	0.5035138	0.6890985	0.6214282	-0.06767038
0.040427	0.0209	16.79881	13.93324	0.1355216	0.0608511	0.1215812	0.06073013
0.000168	1.03E-05	49.87699	37.74781	0.1729457	0.0846084	0.1585623	0.07395394
0.007395	0.00454	23.43151	21.31073	0.6670172	0.7400182	0.6789743	-0.06104389
0.035773	0.03756	14.25256	14.46447	0.9419658	0.869969	0.7928249	-0.07714404
0.044532	0.03236	14.8995	13.51331	0.5877421	0.4491555	0.5746667	0.1255112
0.02571	0.02549	15.93569	15.89891	0.1380461	0.2507334	0.3580733	0.1073398
0.001162	7.92E-05	41.01027	29.34777	0.2174005	0.1255107	0.189265	0.06375425
0.036093	0.01966	17.06507	14.42574	0.9168917	0.8000308	0.8895215	0.08949071
0.005963	4.02E-06	53.95242	22.245	0.1405699	0.4318763	0.5295533	0.09767701

0.015678	0.01686	17.73072	18.04708	0.732902	0.6522909	0.7351092	0.08281829
0.010151	0.0173	17.6204	19.93505	0.6239964	0.7049984	0.6114831	-0.09351528
0.009827	0.00887	20.51906	20.07584	0.328273	0.4595575	0.3240699	-0.1354876
0.020016	0.02462	16.08743	16.98614	0.093537	0.1565294	0.090376	-0.06615341
0.036244	3.92E-05	44.07144	14.40765	0.5687837	0.3635678	0.4279685	0.06440075
0.0435	0.00084	30.75888	13.61511	0.5759546	0.369052	0.4566734	0.08762139
0.036243	0.00238	26.22802	14.40777	0.7336752	0.5701371	0.4434119	-0.1267252
0.003295	0.01285	18.91237	24.82189	0.7577183	0.8677895	0.7381077	-0.1296818
0.011659	0.00024	36.24935	19.33348	0.3014701	0.1810744	0.2838176	0.1027432
0.004085	0.01303	18.85153	23.88832	0.3090894	0.2061855	0.3267911	0.1206057
0.010398	0.00945	20.24651	19.83061	0.3876673	0.3252009	0.3851416	0.05994073
0.008953	0.00331	24.79802	20.48027	0.675698	0.7584687	0.6831656	-0.07530317
0.022892	0.00529	22.76941	16.40326	0.0960794	0.1790334	0.2703946	0.09136118
0.036299	0.01964	17.06879	14.40105	0.8363101	0.5455158	0.7759807	0.2304649
0.043661	0.03612	14.42291	13.59907	0.765505	0.6410195	0.7545495	0.11353
0.019331	0.01473	18.31841	17.13756	0.3005488	0.5080542	0.3150429	-0.1930114
0.002517	0.00073	31.35359	25.99113	0.8957447	0.7674551	0.6871228	-0.08033227
0.001689	0.00412	23.85238	27.72285	0.7405725	0.8295444	0.7419198	-0.08762462
0.000187	4.79E-07	63.20101	37.29137	0.7816852	0.9008209	0.8109267	-0.08989419
0.000128	0.00086	30.63193	38.91446	0.731715	0.8374399	0.7589397	-0.07850014
0.044727	0.01081	19.66108	13.49427	0.2601256	0.346077	0.4555143	0.1094374
0.02403	0.0263	15.79997	16.19244	0.7686635	0.8689638	0.7692443	-0.09971952
3.21E-05	0.00022	36.63652	44.92848	0.7968861	0.8580614	0.7749492	-0.08311214
0.006669	0.03058	15.14599	21.75921	0.112971	0.1951219	0.3375109	0.142389
0.02773	0.00714	21.46304	15.57057	0.1239884	0.1820775	0.2665325	0.08445495
0.010698	0.01017	19.92593	19.70715	0.8025302	0.8710582	0.7988248	-0.07223331
0.038025	0.00723	21.41036	14.19935	0.8935515	0.7490953	0.6093094	-0.139786
0.026342	0.02142	16.69115	15.7935	0.8304727	0.6923314	0.8239185	0.131587
0.036167	9.73E-05	40.11844	14.41683	0.7947648	0.5275432	0.4217554	-0.1057878
0.028798	0.0227	16.43894	15.40644	0.6984914	0.7610058	0.6923258	-0.06868
0.012462	0.00206	26.85257	19.04418	0.3302925	0.5259427	0.3909661	-0.1349766
0.000233	0.00014	38.67033	36.31965	0.843391	0.9095461	0.8443328	-0.06521332
0.048357	0.01446	18.39875	13.15537	0.6573793	0.5798404	0.6315604	0.05171996
0.005198	0.00433	23.63891	22.84131	0.5697151	0.6394438	0.5695358	-0.06990799
0.025967	0.03127	15.04834	15.85585	0.8661983	0.8111961	0.8716181	0.06042189
0.002904	0.00314	25.02927	25.3697	0.1959441	0.0964079	0.1883882	0.09198036
0.029853	0.00058	32.3298	15.25006	0.0467635	0.328692	0.4214795	0.09278756
0.001608	0.00482	23.1727	27.93711	0.3926835	0.5351957	0.3756982	-0.1594975
0.041523	0.01748	17.57353	13.81715	0.7236001	0.6530403	0.5808777	-0.07216261
0.000159	0.00085	30.7023	37.98298	0.6554034	0.746855	0.6129307	-0.1339244
0.004219	1.02E-05	49.93061	23.74757	0.746971	0.428199	0.5472215	0.1190226
0.027365	0.00353	24.5246	15.62797	0.8640511	0.6511949	0.7692741	0.1180791
0.037665	0.00735	21.33425	14.24068	0.7644678	0.6725605	0.6122428	-0.06031768
0.031575	0.03711	14.30468	15.00656	0.2317746	0.1654567	0.2312915	0.06583488
0.018877	0.0474	13.2422	17.24058	0.7961526	0.7222231	0.8145438	0.09232074
0.041129	0.03772	14.23484	13.85854	0.7909589	0.7251379	0.6629004	-0.06223744
0.0176	7.93E-05	41.00699	17.5448	0.7676771	0.4977625	0.412512	-0.08525051
4.36E-05	6.41E-05	41.93363	43.60977	0.1125793	0.0541855	0.1048384	0.05065288
0.003865	0.0039	24.09286	24.12906	0.534441	0.6120918	0.5326099	-0.07948194
0.02296	0.00015	38.37695	16.39034	0.3432458	0.6115623	0.7127422	0.10118
0.00189	0.00836	20.78046	27.2344	0.8533618	0.9213289	0.8384081	-0.0829208
0.000385	0.00079	31.02982	34.14326	0.744794	0.8699636	0.7738253	-0.09613834
0.010188	0.00735	21.33664	19.91894	0.5042483	0.6643849	0.5286497	-0.1357352
0.006203	0.00958	20.18825	22.07394	0.8391828	0.9079792	0.8372049	-0.07077432

2.35E-05	1.48E-05	48.30737	46.29635	0.4933749	0.6585552	0.475278	-0.1832772
0.034806	0.01648	17.83072	14.58349	0.3695962	0.290924	0.3881822	0.09725822
0.01066	8.71E-06	50.6006	19.7225	0.8354338	0.7134197	0.7665682	0.05314858
0.030112	0.01282	18.92249	15.21255	0.3782341	0.2930671	0.395923	0.102856
0.000797	0.00023	36.46906	30.9845	0.1318457	0.0655	0.1161743	0.05067427
0.009484	0.01255	19.01257	20.22996	0.8168408	0.9063846	0.8218366	-0.08454811
0.002719	0.00483	23.1622	25.65568	0.2089968	0.1399166	0.205029	0.06511241
0.000171	8.98E-05	40.46838	37.65964	0.1126024	0.0418677	0.1098197	0.06795194
0.019926	0.02094	16.79015	17.0057	0.6476075	0.7433254	0.6507655	-0.09255981
0.004731	0.0035	24.5603	23.25077	0.6853809	0.7674897	0.6885893	-0.07890043
0.017331	0.01147	19.40487	17.61165	0.2028428	0.1267635	0.1880741	0.06131064
0.01843	0.04475	13.49252	17.34466	0.2291413	0.1637354	0.2517856	0.08805015
1.34E-06	1.17E-06	59.3364	58.72539	0.67483	0.7959748	0.6723227	-0.1236521
0.000165	2.23E-06	56.52023	37.83673	0.4678439	0.675621	0.7687342	0.09311315
0.013077	0.00217	26.63479	18.83489	0.8055705	0.6144743	0.4963044	-0.1181698
0.032771	0.04475	13.49163	14.84509	0.5701639	0.6215965	0.5638308	-0.05776576
0.00258	4.12E-06	53.85564	25.88406	0.3156332	0.6762331	0.7312387	0.05500564
0.04621	0.00573	22.42083	13.35265	0.7618452	0.5701275	0.680863	0.1107355
0.000477	1.92E-06	57.15801	33.21033	0.8330847	0.5753999	0.4700387	-0.1053613
0.010428	0.03072	15.1263	19.818	0.4382408	0.5343964	0.3961004	-0.138296
0.01346	0.01468	18.33142	18.70958	0.7945635	0.8664934	0.7907528	-0.07574058
0.01958	0.0034	24.67909	17.0818	0.8397002	0.7157936	0.7956007	0.07980701
0.003298	9.27E-05	40.33033	24.81684	0.7869329	0.6817067	0.7445268	0.06282009
0.00032	0.00265	25.76451	34.94614	0.2182395	0.3616224	0.4934512	0.1318288
0.00187	0.00049	33.07036	27.28208	0.8949778	0.7494069	0.6505736	-0.0988333
0.015848	0.01959	17.07912	18.0003	0.5270767	0.608629	0.5202984	-0.08833059
0.007758	0.00363	24.39506	21.10264	0.7735311	0.7182465	0.7694684	0.05122186
0.013884	0.02004	16.98181	18.57472	0.818007	0.7455229	0.662445	-0.08307788
0.000229	0.00067	31.76109	36.40614	0.7215701	0.8446871	0.7174942	-0.1271929
0.010893	0.01352	18.68967	19.62857	0.9340925	0.873236	0.7639409	-0.1092951
0.002246	0.00058	32.38761	26.48589	0.7346712	0.9276188	0.8359514	-0.09166739
0.009765	0.00231	26.36766	20.10327	0.2577066	0.1576971	0.2426754	0.08497828
0.000123	3.74E-05	44.26854	39.09622	0.2208503	0.1264453	0.2173773	0.09093203
0.04482	0.04757	13.22655	13.48527	0.547601	0.6224533	0.5458358	-0.07661754
0.028669	0.00489	23.10389	15.42581	0.8944189	0.7371282	0.8288558	0.09172759
4.73E-05	7.49E-07	61.25608	43.25327	0.2159935	0.1255434	0.191297	0.06575362
0.033043	0.02219	16.53781	14.80919	0.8800672	0.7313809	0.597519	-0.1338619
0.002399	0.00273	25.6378	26.19955	0.8357418	0.6114723	0.3858748	-0.2255975
0.029687	5.92E-05	42.27772	15.27429	0.1366209	0.3302414	0.4266412	0.09639975
0.002349	0.00045	33.4842	26.29152	0.8428751	0.7420758	0.8176193	0.07554353
0.013962	0.00385	24.13991	18.55049	0.1745207	0.3195288	0.4628485	0.1433197
0.030228	0.02449	16.11015	15.19594	0.5721892	0.5213044	0.5789721	0.05766768
0.011884	0.01001	19.99738	19.25044	0.7935088	0.7004573	0.7942356	0.0937783
0.005625	0.00322	24.92789	22.499	0.8309123	0.7634391	0.6628942	-0.1005448
0.01269	0.02221	16.53516	18.96534	0.7319369	0.8150136	0.7228474	-0.09216623
0.004055	0.00583	22.34443	23.92019	0.8791724	0.8225397	0.8926896	0.07014984
0.001944	0.00067	31.74787	27.11246	0.8295522	0.7661623	0.8287628	0.06260052
0.018669	0.01472	18.32006	17.28884	0.5567964	0.6272865	0.5445995	-0.08268703
0.002783	0.00122	29.13974	25.55451	0.1812015	0.0993294	0.1725409	0.07321149
0.005064	0.00149	28.27542	22.95475	0.8178831	0.6350007	0.5077189	-0.1272818
6.63E-05	0.00045	33.43554	41.78567	0.1631326	0.0852316	0.1549206	0.06968907
0.016654	0.02566	15.90693	17.78477	0.7787248	0.8451903	0.7705157	-0.0746746
0.027327	0.03394	14.69326	15.63412	0.3272478	0.2318716	0.3318014	0.0999298
0.005143	0.01028	19.87827	22.88771	0.5883596	0.6393726	0.5815263	-0.05784623

0.043932	0.04099	13.87334	13.57221	0.2881748	0.3640482	0.4398497	0.07580158
0.032963	0.02592	15.86283	14.81975	0.7526353	0.8709505	0.7667564	-0.1041941
0.004073	0.01986	17.02084	23.90052	0.2712125	0.1649373	0.3011183	0.136181
0.008832	0.00585	22.33061	20.53952	0.1097113	0.0466055	0.1004715	0.05386606
0.028455	0.0064	21.93954	15.45849	0.8202469	0.6854165	0.5956288	-0.08978774
0.003705	0.01357	18.67442	24.31234	0.8300593	0.9088831	0.8120903	-0.09679283
0.035608	0.00024	36.27018	14.48447	0.7283011	0.4852198	0.3812526	-0.1039672
0.003081	0.00362	24.40723	25.11245	0.634286	0.7660647	0.6341976	-0.1318671
0.040438	0.0295	15.3025	13.93208	0.5597885	0.4170997	0.5431417	0.126042
0.043479	0.00673	21.71813	13.61718	0.8815413	0.7640001	0.8303385	0.06633835
0.039241	0.01668	17.77875	14.06261	0.681984	0.599104	0.5239309	-0.07517304
0.004814	0.00404	23.94039	23.17461	0.3673645	0.2375373	0.3604133	0.1228761
0.02065	0.00526	22.7921	16.85082	0.7685272	0.6532837	0.7281839	0.07490013
0.034053	0.0006	32.18453	14.67849	0.7939804	0.6699502	0.5845126	-0.08543762
0.015033	0.00538	22.69215	18.22961	0.2691717	0.2026028	0.2608633	0.05826046
0.022051	0.02538	15.95537	16.56581	0.8191824	0.7560579	0.8218929	0.06583507
0.002676	0.00151	28.20654	25.72576	0.7725266	0.8386075	0.7736592	-0.0649483
0.039312	0.00146	28.37112	14.0547	0.077454	0.3179107	0.4164184	0.09850771
0.008808	0.00017	37.74849	20.5511	0.8356924	0.7058563	0.6022263	-0.1036301
0.023492	0.03736	14.27609	16.29079	0.650311	0.7350872	0.639843	-0.09524422
5.71E-06	2.31E-07	66.36838	52.4315	0.1138042	0.0389979	0.0896303	0.05063243
0.003326	0.00102	29.90491	24.78064	0.873754	0.9314425	0.8795817	-0.05186077
0.005782	0.00187	27.28665	22.37955	0.7745796	0.881333	0.7942046	-0.08712839
0.036826	0.03833	14.16474	14.33851	0.8824213	0.7513756	0.8813669	0.1299913
0.008838	0.00061	32.1201	20.53625	0.8110147	0.7219606	0.5908375	-0.1311231
0.027861	0.01531	18.15149	15.55002	0.7068142	0.7736601	0.7214928	-0.05216731
0.017961	8.24E-05	40.83982	17.45672	0.8431224	0.7445602	0.6939437	-0.0506165
0.027746	9.85E-05	40.06736	15.56802	0.2689253	0.6597992	0.5299926	-0.1298066
0.019969	0.01048	19.79445	16.99644	0.6469337	0.7127106	0.6613632	-0.0513474
0.022151	0.00755	21.22198	16.54599	0.8482453	0.7845771	0.8358176	0.05124051
0.036981	0.00503	22.98079	14.32021	0.7918428	0.5804775	0.6859927	0.1055152
0.004504	6.32E-05	41.99199	23.46372	0.8326076	0.7103403	0.5791875	-0.1311529
0.033046	0.03521	14.53315	14.80884	0.9793326	0.7857146	0.6068998	-0.1788148
0.034169	0.00579	22.37693	14.66362	0.7540616	0.6387686	0.5562645	-0.08250399
0.00767	0.00019	37.31023	21.15198	0.4294599	0.8644733	0.7673941	-0.09707928
0.011732	0.01798	17.45205	19.30642	0.7809346	0.8321143	0.77454	-0.05757428
0.021922	0.01505	18.22579	16.59113	0.8695622	0.7525249	0.8582625	0.1057377
0.01175	0.0141	18.50812	19.29948	0.9194689	0.8361565	0.7382574	-0.09789909
0.018328	0.03719	14.29598	17.36884	0.7802994	0.7084978	0.798887	0.09038915
0.000844	0.00311	25.07915	30.7378	0.8259895	0.9167297	0.822641	-0.09408872
0.024927	0.02451	16.10707	16.03325	0.7891639	0.595289	0.4150252	-0.1802638
0.005398	0.03021	15.1992	22.67754	0.8169285	0.9137789	0.7791719	-0.134607
0.014722	0.0361	14.42552	18.32044	0.8466564	0.9005641	0.8298522	-0.0707119
0.017816	0.00262	25.81503	17.49183	0.2891793	0.1927564	0.2518612	0.0591049
0.00183	9.12E-05	40.39782	27.37601	0.7860491	0.8880123	0.8309774	-0.05703488
0.002799	0.00098	30.07415	25.5294	0.2358015	0.1382396	0.2304753	0.09223576
0.022087	0.01901	17.20946	16.55862	0.6141363	0.699681	0.6244983	-0.07518274
0.004084	0.00491	23.09304	23.88878	0.1325922	0.0574226	0.1272742	0.06985155
0.040417	0.00059	32.28255	13.93435	0.6015104	0.3138883	0.2634927	-0.05039563
0.001933	0.00098	30.09504	27.13772	0.4751971	0.2990462	0.4621471	0.1631009
0.013175	0.0121	19.17265	18.80236	0.5468862	0.6165864	0.5478632	-0.06872329
0.018327	0.01935	17.13267	17.36899	0.5116176	0.6034888	0.5095735	-0.09391531
0.027342	0.03626	14.40531	15.63173	0.8043812	0.7509685	0.8085054	0.05753686
0.00197	0.00955	20.19988	27.05483	0.789376	0.8461069	0.7569127	-0.08919419

0.013284	0.0025	26.02246	18.76671	0.8220037	0.7501378	0.8040177	0.05387992
0.004999	0.00245	26.10314	23.01081	0.4017317	0.2012071	0.3647067	0.1634996
0.004762	0.01269	18.96426	23.22172	0.7871326	0.8752543	0.7744889	-0.1007655
1.60E-05	8.01E-07	60.96209	47.95016	0.1957563	0.0954353	0.1783097	0.08287438
0.008825	5.04E-05	42.97659	20.54296	0.1724404	0.3440902	0.4129079	0.06881765
0.023785	0.00115	29.38105	16.23702	0.8056074	0.6091651	0.7069074	0.09774235
0.001559	0.00021	36.80724	28.07176	0.1399528	0.0609705	0.1203047	0.0593342
0.030626	0.00132	28.79008	15.13905	0.1947556	0.4526409	0.5628052	0.1101643
0.048523	0.02202	16.57101	13.14052	0.2407601	0.1569584	0.2213225	0.06436412
0.046015	0.01825	17.38643	13.37099	0.7902886	0.5727031	0.4184417	-0.1542614
0.033498	0.01959	17.07861	14.74978	0.5687534	0.4510703	0.5426346	0.09156433
0.000378	6.15E-05	42.1105	34.23021	0.38082	0.2818821	0.3525779	0.07069581
0.018024	0.00477	23.21353	17.44152	0.0638076	0.2862804	0.4076857	0.1214053
0.000815	0.00042	33.73071	30.88743	0.6350777	0.6980144	0.6371815	-0.06083287
0.004266	2.39E-06	56.21775	23.69945	0.0509764	0.2842514	0.3647203	0.08046897
0.005286	1.49E-05	48.26218	22.76836	0.83758	0.6363205	0.552018	-0.08430238
0.042264	0.00221	26.55703	13.74031	0.0673396	0.2589462	0.1824828	-0.07646346
0.000711	0.00171	27.66698	31.48015	0.5425014	0.6467407	0.5368345	-0.1099062
0.002668	0.00206	26.85975	25.73755	0.817269	0.7141302	0.8096005	0.09547026
0.036068	0.00658	21.81979	14.42877	0.2782088	0.3688478	0.2907928	-0.07805508
0.0436	0.01012	19.94792	13.60513	0.1817403	0.1060086	0.1655216	0.05951304
0.011937	0.03082	15.11202	19.23114	0.2525421	0.3765467	0.5246814	0.1481347
0.024814	0.02454	16.10041	16.05302	0.452334	0.619202	0.4581339	-0.1610681
0.015702	0.00641	21.93352	18.04035	0.8976648	0.7724486	0.6632931	-0.1091555
0.01398	0.00021	36.7501	18.54504	0.3733442	0.5527625	0.5022879	-0.05047467
0.013593	0.03879	14.11268	18.66675	0.5891318	0.6460112	0.5597448	-0.0862665
0.016439	0.01351	18.69473	17.84125	0.7156852	0.8670682	0.7312171	-0.1358511
0.02302	0.03441	14.63363	16.37887	0.6191976	0.7118571	0.6065424	-0.1053147
0.022249	0.0398	14.00088	16.52689	0.9524539	0.8937527	0.8171812	-0.07657145
0.015314	5.07E-06	52.95145	18.14919	0.5618147	0.8006406	0.7284901	-0.07215057
0.001734	0.00301	25.20968	27.6086	0.7282015	0.863712	0.7223879	-0.1413241
0.01323	0.00082	30.8743	18.78445	0.8028657	0.7007173	0.5911083	-0.1096091
0.000269	0.00021	36.7206	35.69648	0.7431381	0.8116827	0.7502116	-0.06147109
0.048119	0.00374	24.2671	13.17684	0.5541715	0.7337439	0.6409111	-0.09283281
0.038335	0.0027	25.69346	14.16406	0.8227926	0.6146522	0.7152929	0.1006407
0.016914	0.01297	18.87047	17.71755	0.7565541	0.6709064	0.7488526	0.07794616
0.038412	0.00018	37.33986	14.15532	0.4490926	0.6980889	0.6164585	-0.08163043
0.000118	8.84E-05	40.53703	39.26526	0.8641129	0.9251606	0.8688114	-0.0563492
0.004747	0.0052	22.84386	23.23593	0.651292	0.8240205	0.6747048	-0.1493157
0.010744	0.00927	20.33005	19.6882	0.6761644	0.5764179	0.6701662	0.09374825
0.039712	0.01796	17.45579	14.01077	0.1040704	0.0396726	0.0936972	0.05402452
0.001531	0.00125	29.01934	28.15034	0.2309669	0.0749642	0.2067396	0.1317754
0.001938	9.26E-05	40.33519	27.12655	0.8860527	0.657209	0.5480785	-0.1091305
0.044253	0.00147	28.3374	13.54056	0.8165204	0.6263319	0.705042	0.07871011
0.025401	8.63E-06	50.64145	15.95155	0.1219154	0.7205967	0.8329261	0.1123295
0.002766	4.95E-06	53.05053	25.58093	0.1049698	0.2106752	0.3633139	0.1526387
0.015232	0.01431	18.44322	18.17234	0.6399909	0.726502	0.6436411	-0.08286091
0.016484	0.03431	14.64581	17.82939	0.7500533	0.8017362	0.732164	-0.06957214
0.001777	0.00143	28.45846	27.50237	0.7776163	0.8391197	0.7232993	-0.1158204
0.012824	0.02031	16.92296	18.91971	0.5175214	0.6489633	0.5086672	-0.1402962
0.045272	1.21E-06	59.189	13.44172	0.732537	0.4804824	0.5562463	0.07576388
0.0472	0.00871	20.60081	13.26055	0.7770581	0.4838546	0.319312	-0.1645426
0.000205	0.00094	30.28562	36.87428	0.8138252	0.884688	0.7948027	-0.08988529
7.67E-05	0.0004	33.96248	41.15395	0.6282016	0.7899252	0.6371266	-0.1527986

0.016793	1.18E-05	49.28936	17.74866	0.2213649	0.566711	0.6589143	0.09220325
0.000479	0.00022	36.49451	33.19237	0.1378642	0.07111	0.1311307	0.06002066
0.036064	0.01907	17.19592	14.42924	0.8470832	0.9412641	0.869535	-0.07172906
0.048327	0.03103	15.08165	13.15811	0.3725997	0.1840577	0.3378642	0.1538065
0.033596	0.0129	18.8947	14.73711	0.8564631	0.7027398	0.5988699	-0.1038699
0.001506	0.0012	29.22506	28.22235	0.1517631	0.0932351	0.153722	0.06048686
0.031973	0.02441	16.12384	14.95222	0.3629479	0.2552923	0.3510057	0.09571339
0.015164	0.01113	19.53641	18.19188	0.7713634	0.8349956	0.7683977	-0.06659792
7.42E-06	2.28E-05	46.41291	51.29662	0.5621026	0.7016721	0.5321945	-0.1694776
0.002027	3.37E-07	64.71907	26.93072	0.1404931	0.5514506	0.6641012	0.1126507
0.004631	0.00116	29.36536	23.34365	0.6569053	0.7509877	0.6708482	-0.08013956
0.004916	0.01782	17.49004	23.08426	0.8875624	0.7849694	0.6587952	-0.1261742
0.031667	0.01685	17.73502	14.99399	0.3258169	0.1905647	0.3011883	0.1106236
0.000477	9.35E-05	40.29082	33.21357	0.7808453	0.6578095	0.7433052	0.08549567
0.0249	0.04759	13.22455	16.038	0.8160466	0.8742981	0.8030595	-0.07123856
0.001914	0.00042	33.73232	27.18125	0.5144169	0.623553	0.4875781	-0.135975
2.61E-05	4.26E-06	53.70471	45.83067	0.2238336	0.1160315	0.2033442	0.08731271
0.046221	0.00928	20.3249	13.3516	0.1517502	0.2900442	0.3748682	0.084824
0.003593	0.00037	34.29431	24.44551	0.838276	0.7263517	0.8071219	0.08077021
0.000125	0.0005	32.99094	39.0221	0.2448768	0.147843	0.2575378	0.1096948
0.044245	0.02033	16.91913	13.54138	0.0658378	0.1842774	0.281827	0.09754951
0.000624	0.00213	26.7175	32.04799	0.1395255	0.0662345	0.1341363	0.06790181
0.000316	0.00182	27.40249	35.00341	0.7459645	0.8016247	0.7248306	-0.0767941
0.00175	0.01889	17.2377	27.56982	0.6575149	0.565758	0.4305304	-0.1352276
0.001185	5.29E-06	52.76511	29.26414	0.124722	0.4446053	0.5670342	0.1224289
0.001946	0.00191	27.18097	27.10756	0.7603859	0.8482369	0.7505519	-0.09768488
0.005358	0.00211	26.76632	22.71025	0.5227407	0.7512755	0.5223484	-0.228927
0.003604	0.00122	29.12004	24.43255	0.7073128	0.8655864	0.7434649	-0.1221214
0.010932	0.02343	16.30295	19.61281	0.5824434	0.7058765	0.5589588	-0.1469177
0.015791	0.00244	26.13407	18.01578	0.1791295	0.1208918	0.1822536	0.0613618
0.000451	0.00012	39.12349	33.4598	0.304903	0.1637523	0.2765687	0.1128164
0.009564	0.00159	27.98465	20.19378	0.9028812	0.8059012	0.8639138	0.05801254
0.001525	0.00069	31.62925	28.16669	0.2217387	0.1507152	0.2140478	0.06333265
0.022147	0.01972	17.05122	16.54679	0.8003864	0.8949271	0.8070883	-0.08783878
0.000553	0.00073	31.35314	32.57458	0.842187	0.9017438	0.8331297	-0.06861413
5.75E-05	0.00035	34.60955	42.40202	0.5163758	0.5912409	0.4385746	-0.1526663
0.00708	0.00077	31.13905	21.49939	0.8401333	0.7653067	0.8163637	0.05105703
0.030342	0.00134	28.73747	15.1796	0.7937461	0.6431087	0.7180761	0.07496736
0.014183	0.01109	19.551	18.48245	0.8649788	0.7827245	0.8532317	0.07050724
0.011388	0.01772	17.51429	19.43557	0.8978444	0.832736	0.9066612	0.07392524
0.038073	0.04913	13.08691	14.19383	0.2999731	0.2470524	0.3211831	0.07413063
0.006089	0.01203	19.19788	22.15424	0.584026	0.6480733	0.5711758	-0.07689746
0.000368	0.00491	23.08614	34.33766	0.7876281	0.8403864	0.7581665	-0.08221986
0.018999	0.02898	15.3791	17.21261	0.5348347	0.6058576	0.5207383	-0.08511921
0.021	1.84E-06	57.35265	16.7778	0.1073032	0.2814136	0.3551283	0.07371473
8.15E-06	1.34E-05	48.72707	50.88726	0.5497564	0.6370489	0.5437757	-0.09327325
0.009671	0.00751	21.24245	20.14524	0.136875	0.0824069	0.1337606	0.05135376
0.000239	6.25E-06	52.04118	36.21459	0.790095	0.8794247	0.79592	-0.08350471
0.01076	0.00832	20.7981	19.68201	0.7973948	0.6888764	0.7938759	0.1049995
0.003094	0.00695	21.582	25.09482	0.5375235	0.6273368	0.5223152	-0.1050216
0.030796	0.04405	13.5601	15.11508	0.8729701	0.7821722	0.6810386	-0.1011336
0.000453	0.00084	30.73283	33.44069	0.7732688	0.8689918	0.7611707	-0.1078211
0.030064	0.03729	14.28412	15.21952	0.8689595	0.8146651	0.874356	0.05969092
0.026888	0.01226	19.11457	15.70442	0.741401	0.6300916	0.7178315	0.0877399

0.032697	0.03741	14.27052	14.85488	0.4991765	0.5701826	0.4985199	-0.07166269
0.00879	0.00609	22.15247	20.56034	0.9089257	0.7553818	0.6375954	-0.1177864
0.003819	0.00716	21.45366	24.18087	0.8619905	0.9264987	0.818147	-0.1083516
0.009873	0.01394	18.55805	20.05542	0.6413287	0.800922	0.646622	-0.1543
0.004724	1.07E-05	49.72493	23.25666	0.8048046	0.6453745	0.55553	-0.0898445
0.022894	0.02422	16.15879	16.4028	0.0414574	0.1152777	0.0385733	-0.0767044
0.000416	8.04E-06	50.9495	33.80645	0.2114708	0.062033	0.151247	0.08921399
0.009125	0.01501	18.23745	20.39786	0.1719298	0.104969	0.1766825	0.07171348
0.003028	0.02128	16.71985	25.18865	0.2620022	0.3400015	0.4457151	0.1057136
0.00595	0.00264	25.78736	22.25498	0.5183791	0.4586554	0.5118142	0.0531588
0.003378	0.03559	14.48612	24.71376	0.6983722	0.7806709	0.6282499	-0.1524211
0.005292	0.01815	17.41183	22.76357	0.1190504	0.0606517	0.113566	0.0529143
0.000785	0.00138	28.61332	31.05379	0.8161106	0.7648591	0.8194689	0.05460972
0.003159	0.00024	36.13955	25.00387	0.3963267	0.5469281	0.4261927	-0.1207354
0.027747	6.86E-05	41.63691	15.5678	0.1734096	0.3253903	0.4052788	0.07988856
0.019826	0.02796	15.53388	17.02765	0.792484	0.8507218	0.786782	-0.06393971
0.00134	0.00097	30.14812	28.72903	0.2606081	0.1447355	0.2461028	0.1013673
0.005204	0.0123	19.10221	22.83651	0.7695439	0.8693866	0.7582358	-0.1111508
0.026893	9.20E-05	40.36422	15.70367	0.4970221	0.2987308	0.3641481	0.06541732
0.032754	0.00062	32.0593	14.84735	0.5892922	0.3454507	0.4397548	0.09430412
0.000676	8.04E-05	40.94698	31.70328	0.8405048	0.7271508	0.6299163	-0.09723457
0.044682	0.02816	15.50441	13.49866	0.331312	0.2014192	0.3115106	0.1100913
0.034587	0.00051	32.9495	14.6109	0.3297961	0.4366565	0.5128157	0.07615913
0.022823	0.01808	17.4285	16.41631	0.2415273	0.185095	0.2423177	0.05722271
0.010195	0.00897	20.47065	19.91631	0.6558665	0.8502412	0.6649298	-0.1853114
0.025019	0.01285	18.91133	16.01728	0.8516625	0.7590119	0.6571861	-0.1018258
0.020768	0.02177	16.6209	16.82599	0.8362877	0.9217982	0.8399037	-0.0818945
0.022134	0.00161	27.9424	16.54939	0.5712116	0.3031684	0.4498107	0.1466422
0.045796	0.00461	23.36112	13.39176	0.9097018	0.7649549	0.8313813	0.06642631
0.029831	0.0293	15.33172	15.25329	0.3943037	0.3260697	0.3967064	0.07063665
0.000151	0.0004	33.92708	38.21505	0.3933288	0.4841013	0.3800719	-0.1040294
0.009573	0.00503	22.98859	20.18944	0.8248547	0.7274999	0.8151913	0.08769139
0.000467	0.00031	35.11401	33.3054	0.2372011	0.1170173	0.2267365	0.1097192
0.049688	1.20E-06	59.19685	13.0375	0.170924	0.5976453	0.531268	-0.06637735
6.18E-05	3.56E-05	44.48585	42.08935	0.0668396	0.0139792	0.0640524	0.0500732
0.001251	0.00317	24.98286	29.02637	0.3776542	0.2328647	0.3917942	0.1589295
0.008983	0.01455	18.37168	20.46584	0.6180969	0.7408231	0.593915	-0.1469081
0.009746	0.01263	18.98628	20.11163	0.3797345	0.4746096	0.5728446	0.09823503
0.002359	0.00792	21.01175	26.27305	0.4900366	0.6347191	0.4737016	-0.1610175
0.016544	0.00658	21.82009	17.8137	0.6968753	0.8219389	0.6883042	-0.1336347
0.029614	0.04453	13.5137	15.28509	0.7680659	0.8366575	0.7573593	-0.0792982
0.021156	0.02512	16.00009	16.74561	0.886118	0.738957	0.5945798	-0.1443773
0.000348	0.00052	32.85469	34.58221	0.6007691	0.5263661	0.6073219	0.08095581
0.003974	4.37E-06	53.59544	24.00808	0.762403	0.5424681	0.4676769	-0.07479121
0.023067	0.01383	18.59264	16.37001	0.8457987	0.6903115	0.8268477	0.1365362
0.01553	0.00026	35.91151	18.08838	0.101632	0.2071699	0.2696572	0.06248729
0.023561	3.59E-05	44.44846	16.27808	0.3082921	0.7444393	0.6297484	-0.1146909
0.03355	0.02129	16.71769	14.74305	0.6577631	0.7603919	0.6737134	-0.0866785
0.02908	0.00648	21.88214	15.364	0.8851155	0.8035377	0.7435501	-0.05998753
0.025392	0.01209	19.17708	15.95303	0.8210627	0.7692462	0.6869715	-0.08227474
0.00804	0.01406	18.52102	20.94755	0.4218715	0.5577903	0.4134169	-0.1443734
0.031214	0.00479	23.20047	15.05644	0.2217121	0.1402981	0.1960545	0.05575645
0.044422	0.04494	13.47345	13.52402	0.8527486	0.7789265	0.8530729	0.07414642
0.007862	0.00894	20.4872	21.04486	0.7771818	0.6350088	0.773744	0.1387353

0.011306	0.00484	23.14782	19.46677	0.9067816	0.7787378	0.875179	0.09644124
0.002397	1.41E-05	48.50269	26.20324	0.3733705	0.6933392	0.5973156	-0.09602353
0.015037	0.02052	16.87897	18.22837	0.3060564	0.1892629	0.3236639	0.1344011
0.015007	0.00208	26.81626	18.23706	0.8894224	0.8149135	0.8788754	0.06396189
0.000111	0.00131	28.82881	39.54472	0.3037224	0.2022592	0.291101	0.08884183
0.004087	0.00061	32.17456	23.88558	0.1261987	0.0508873	0.1085403	0.05765308
0.035695	0.02681	15.71692	14.47393	0.8797876	0.7557952	0.6493914	-0.1064038
0.043671	0.00138	28.59594	13.5981	0.7778629	0.5939572	0.5088201	-0.08513719
0.015568	0.00714	21.46047	18.07781	0.7893373	0.6712609	0.7635841	0.09232317
0.041392	4.92E-05	43.08361	13.83081	0.6179822	0.3217811	0.4067948	0.08501372
0.003651	0.01577	18.02095	24.37529	0.7774802	0.8582819	0.7368112	-0.1214707
0.000677	0.00352	24.53339	31.69281	0.101341	0.1743253	0.2573872	0.08306186
0.023445	0.00386	24.13934	16.29942	0.8377272	0.7626554	0.6815474	-0.08110803
0.000339	0.00039	34.0872	34.698	0.815757	0.9308122	0.8229062	-0.107906
0.023375	0.0025	26.02861	16.31253	0.1972302	0.2700094	0.3275928	0.05758343
0.016454	0.0111	19.54646	17.83728	0.2046003	0.1150986	0.1864555	0.07135694
0.002545	0.00487	23.1241	25.9434	0.5808604	0.7134714	0.5673462	-0.1461252
0.022595	0.0417	13.79864	16.45983	0.6467018	0.7475841	0.628907	-0.1186771
0.023955	0.0285	15.45096	16.20609	0.8707672	0.9282981	0.868372	-0.05992602
0.001393	4.58E-06	53.3958	28.55947	0.0949033	0.0241111	0.1026858	0.07857479
0.002908	0.01262	18.99052	25.36423	0.4741983	0.5743454	0.4356539	-0.1386915
0.048496	0.015	18.23773	13.14292	0.8966566	0.8379595	0.7802469	-0.05771265
0.026628	0.00795	20.99459	15.74664	0.8487316	0.7954949	0.7333435	-0.06215131
0.027599	0.02773	15.57093	15.59113	0.8997921	0.7744897	0.8970143	0.1225245
0.044144	0.03315	14.79546	13.5513	0.8396832	0.7613186	0.6932279	-0.06809065
0.002082	0.00291	25.35785	26.81619	0.1694196	0.094352	0.1603591	0.06600707
0.008338	0.01719	17.64672	20.78936	0.7339364	0.7908219	0.720206	-0.07061578
1.40E-05	2.10E-06	56.77028	48.5424	0.8078436	0.6282315	0.7446504	0.1164189
0.023861	0.03746	14.26401	16.22318	0.2810397	0.1893587	0.2884319	0.09907314
0.014034	0.00831	20.80388	18.5282	0.6178998	0.7793158	0.6606631	-0.1186527
0.001206	0.00132	28.80411	29.18506	0.6987273	0.8896672	0.7054209	-0.1842462
0.042741	0.00011	39.55032	13.6916	0.7024459	0.4000523	0.3317634	-0.06828889
0.044579	0.04547	13.42246	13.50874	0.7882206	0.6612815	0.7875452	0.1262637
0.009592	2.10E-07	66.78654	20.18108	0.794956	0.5767245	0.4786204	-0.09810417
0.046686	0.01354	18.68508	13.30816	0.8247313	0.7259851	0.6464985	-0.07948662
0.008716	0.03491	14.57002	20.5967	0.8488501	0.9081804	0.7874445	-0.1207358
0.001558	0.00499	23.02261	28.07484	0.6248653	0.7293039	0.6167349	-0.112569
0.008823	0.01488	18.27334	20.5438	0.511276	0.6603964	0.4813891	-0.1790073
0.004965	0.00016	37.87381	23.04067	0.1163055	0.1942936	0.2543099	0.06001633
0.004485	0.04574	13.39711	23.48273	0.7390085	0.795329	0.6951039	-0.100225
0.006336	0.00033	34.85465	21.98203	0.5134819	0.3661979	0.435027	0.06882909
0.002439	0.00118	29.2995	26.12791	0.7347427	0.818449	0.692238	-0.1262109
0.016249	0.00479	23.19568	17.89169	0.1199472	0.3010615	0.4089672	0.1079058
0.004384	5.47E-06	52.62391	23.58107	0.1147617	0.6459689	0.8161725	0.1702036
0.033018	0.02369	16.25447	14.81249	0.2896313	0.2072495	0.2840917	0.07684221
0.031881	1.57E-05	48.0272	14.96474	0.6933271	0.4614524	0.5129614	0.05150906
0.008293	0.00341	24.66799	20.81301	0.8023192	0.7164521	0.789477	0.07302489
0.010352	0.00882	20.54312	19.84975	0.8610789	0.744769	0.6381253	-0.1066437
0.000566	5.52E-05	42.58118	32.47086	0.3075649	0.1602423	0.2745019	0.1142596
0.001814	0.00145	28.37659	27.41377	0.8561342	0.9157522	0.8609189	-0.05483332
0.005063	0.00258	25.87973	22.95563	0.8120109	0.7445971	0.8050937	0.06049661
5.20E-05	4.43E-07	63.53518	42.84288	0.8786418	0.7124106	0.5468758	-0.1655348
0.003356	0.00178	27.48641	24.74182	0.2545325	0.0867865	0.2169293	0.1301428
0.002755	0.00427	23.69375	25.59925	0.6407371	0.7702582	0.6484576	-0.1218007



0.022399	0.00352	24.52973	16.49768	0.8170434	0.5568587	0.4241709	-0.1326878
0.001014	0.00092	30.35851	29.94095	0.5408903	0.6221876	0.5349402	-0.0872474
0.014447	0.03365	14.73019	18.40214	0.585293	0.6529028	0.5678028	-0.08509991
5.70E-05	0.00139	28.58528	42.44093	0.7175388	0.7902876	0.6699987	-0.1202888
0.018552	0.03098	15.08859	17.31618	0.7150213	0.7848776	0.7039457	-0.08093189
0.00255	0.00126	29.00221	25.93452	0.2975015	0.1778513	0.2860269	0.1081756
0.000337	2.83E-05	45.48104	34.7205	0.2240323	0.1433413	0.209855	0.06651372
0.009168	3.42E-06	54.66285	20.37745	0.7794445	0.3875081	0.2902023	-0.09730586
0.027338	0.00049	33.07483	15.63234	0.8335134	0.5750114	0.4573414	-0.11767
0.005882	0.00359	24.45244	22.3047	0.8345616	0.7602594	0.8274708	0.06721131
0.006474	0.04194	13.77375	21.88856	0.9094897	0.7994623	0.619778	-0.1796843
0.006388	0.00212	26.72999	21.9461	0.5001841	0.4135069	0.5215122	0.1080054
0.012684	0.02552	15.93177	18.96758	0.8301767	0.7668113	0.8234128	0.05660158
0.000741	0.00103	29.86684	31.30391	0.8562037	0.9280875	0.8581012	-0.06998625
0.007559	0.01175	19.29961	21.21536	0.8079534	0.8592317	0.7514451	-0.1077866
0.025084	0.00708	21.5012	16.00606	0.9057661	0.6743161	0.8242291	0.149913
0.022147	0.03015	15.20648	16.54693	0.9118491	0.9627749	0.9083735	-0.05440138
0.004574	0.00939	20.2724	23.39664	0.5296323	0.6344443	0.5244623	-0.109982
0.000555	0.00011	39.44975	32.55927	0.0748085	0.3614056	0.5205506	0.159145
0.000371	5.63E-05	42.49784	34.31051	0.4422656	0.625108	0.7251905	0.1000824
0.031661	0.02428	16.14773	14.99478	0.5776837	0.651931	0.72086	0.06892897
0.005351	0.00224	26.50251	22.71557	0.7241032	0.7921828	0.7362345	-0.05594836
0.045407	0.03965	14.01716	13.42881	0.2149948	0.1159515	0.1705372	0.05458568
0.017201	0.0474	13.24193	17.64443	0.5756705	0.6523622	0.5501168	-0.1022453
0.006973	0.0009	30.45115	21.56552	0.6192893	0.7295949	0.6506926	-0.07890229
0.000801	0.01304	18.84712	30.96572	0.7560487	0.8351436	0.7040971	-0.1310465
0.000582	0.00181	27.42513	32.3507	0.8379722	0.9049659	0.8283173	-0.0766486
0.027676	0.00608	22.16314	15.57889	0.8283917	0.7138562	0.6218486	-0.09200755
0.048194	0.00105	29.77361	13.17004	0.8085462	0.6166461	0.6870263	0.07038023
0.00955	0.00541	22.66836	20.20008	0.7724202	0.9027007	0.798749	-0.1039517
0.001949	0.01414	18.49703	27.10186	0.6907152	0.7642813	0.6589676	-0.1053137
0.031421	0.00796	20.99043	15.02779	0.8964381	0.8183231	0.8763213	0.05799816
8.08E-05	3.81E-05	44.18572	40.92802	0.5681043	0.6675097	0.5748294	-0.09268035
0.003476	0.00159	27.98452	24.58947	0.2078453	0.1046895	0.1912172	0.0865277
0.029672	0.03427	14.65099	15.27648	0.8087359	0.7281601	0.8131629	0.08500282
0.02981	4.54E-06	53.42651	15.25634	0.1703625	0.3991308	0.3443071	-0.05482372
0.012346	0.00141	28.51652	19.08488	0.8187303	0.7160954	0.6372434	-0.07885202
0.038568	7.77E-05	41.09652	14.13778	0.143152	0.3398075	0.4017723	0.06196482
0.01464	0.00571	22.43511	18.34453	0.7314221	0.8682674	0.7610608	-0.1072067
0.031655	0.00155	28.09545	14.99554	0.8730576	0.8051453	0.7483366	-0.05680873
0.001354	0.00393	24.05594	28.68418	0.7652982	0.8837952	0.7486715	-0.1351238
0.005388	0.00932	20.30776	22.68584	0.5764722	0.680077	0.5747062	-0.1053708
0.044748	0.00071	31.46189	13.49228	0.1068831	0.3838548	0.4569257	0.07307097
0.002901	0.00459	23.37912	25.37494	0.7016761	0.5708205	0.7146705	0.14385
0.016617	0.00216	26.65664	17.79456	0.8778087	0.7699589	0.6689214	-0.1010375
0.007029	0.00396	24.02179	21.53119	0.7152182	0.7949945	0.7297214	-0.06527318
0.037323	0.01837	17.35946	14.28028	0.3065943	0.376091	0.4590612	0.08297016
0.020314	0.00053	32.78172	16.92207	0.7631473	0.6498626	0.5771682	-0.07269443
0.004594	0.00477	23.21859	23.37797	0.8484294	0.9202495	0.8489851	-0.07126432
0.005968	3.11E-05	45.07884	22.24198	0.2717115	0.1133187	0.1948916	0.08157292
0.004205	0.00209	26.80481	23.76271	0.1135398	0.0522823	0.1104092	0.05812684
0.031271	0.05001	13.00911	15.04863	0.8376345	0.7719744	0.8506997	0.07872529
0.000109	8.33E-05	40.7953	39.62823	0.7255039	0.8454517	0.7384936	-0.1069581
0.000608	2.93E-05	45.32837	32.16015	0.7074407	0.8837755	0.7786739	-0.1051015

0.03279	0.00764	21.16819	14.84265	0.4393973	0.3347011	0.4088488	0.07414769
0.006175	0.00208	26.818	22.09352	0.2049401	0.0857246	0.1733924	0.08766782
0.000527	0.00119	29.24551	32.77845	0.6427897	0.7429444	0.621134	-0.1218103
0.021288	0.02209	16.55753	16.71863	0.5930157	0.7233304	0.595161	-0.1281693
0.007544	0.00453	23.4351	21.22406	0.2255195	0.1169207	0.2086596	0.09173892
0.046886	0.01879	17.26017	13.28959	0.9211292	0.7923483	0.8794473	0.08709899
0.007432	0.00519	22.84856	21.2892	0.639985	0.740478	0.6624881	-0.07798988
0.001303	0.00142	28.48203	28.85031	0.4951501	0.5923697	0.493986	-0.09838375
0.000606	0.00031	35.12001	32.17836	0.1125298	0.0506191	0.1027272	0.05210808
0.007869	0.00225	26.47792	21.04063	0.8150857	0.8910385	0.7888263	-0.1022122
0.003908	0.00235	26.2837	24.08089	0.5984668	0.6835472	0.6190404	-0.06450686
0.033638	0.03095	15.09336	14.73172	0.6256497	0.7311461	0.6285107	-0.1026354
0.03845	0.00987	20.0584	14.15102	0.8753391	0.6900474	0.5787315	-0.1113159
0.002262	2.57E-06	55.90276	26.45562	0.728166	0.6192811	0.4349464	-0.1843346
0.00028	0.00017	37.61134	35.53192	0.1292592	0.0371469	0.1166662	0.07951932
0.042139	0.01529	18.15554	13.75318	0.6873839	0.6091517	0.6667917	0.05764
0.043977	0.00022	36.67181	13.56772	0.138393	0.2413412	0.3256892	0.08434795
0.000347	0.00096	30.17693	34.60119	0.8827966	0.7681001	0.5988922	-0.1692079
0.010175	0.03103	15.08214	19.92477	0.8923182	0.9490541	0.8765273	-0.07252677
0.043779	0.00553	22.57435	13.58733	0.0539091	0.1273709	0.1988737	0.07150277
0.030042	4.15E-05	43.82081	15.22274	0.3225939	0.6932792	0.6064935	-0.08678575
0.000482	0.00096	30.17628	33.1683	0.2219041	0.1350742	0.238818	0.1037437
0.024182	0.02459	16.09224	16.16513	0.8494459	0.7950333	0.849701	0.05466779
0.046341	0.00153	28.15917	13.34031	0.1125144	0.3106171	0.3841836	0.07356658
4.34E-05	0.03714	14.30212	43.62455	0.7379875	0.7976252	0.6223375	-0.1752878
0.005107	0.01511	18.20652	22.91807	0.6359936	0.6934601	0.6317122	-0.06174794
0.002295	0.00123	29.11771	26.39155	0.3125372	0.1678763	0.3019315	0.1340552
0.032577	0.00013	39.03071	14.87084	0.8351586	0.6817479	0.7332525	0.05150465
5.57E-06	6.15E-06	52.10786	52.54268	0.1528543	0.0735981	0.1349374	0.06133936
0.014346	0.00772	21.12584	18.43272	0.8483986	0.7503386	0.8303893	0.08005062
0.003509	0.002	26.99511	24.54812	0.1027273	0.0466918	0.1031692	0.05647741
0.042756	0.02552	15.93106	13.69005	0.8979686	0.7935522	0.7064881	-0.08706411
0.040316	0.04803	13.18495	13.94519	0.5705116	0.6280531	0.5574237	-0.07062935
0.020373	0.00103	29.87451	16.90943	0.0789802	0.4144719	0.5342705	0.1197985
0.013038	0.00298	25.26175	18.84801	0.8158106	0.7378723	0.7967802	0.05890791
0.040097	0.01572	18.03499	13.96883	0.644835	0.727519	0.6644077	-0.06311129
0.011567	0.01202	19.20008	19.36783	0.6489904	0.7131537	0.6407049	-0.07244877
0.034217	0.04974	13.03275	14.65757	0.574314	0.4363252	0.5919347	0.1556095
1.44E-05	1.20E-05	49.19418	48.41051	0.2906575	0.2059005	0.2879432	0.08204271
9.62E-05	0.00029	35.39132	40.16934	0.6198534	0.6701115	0.6146213	-0.05549029
0.0182	0.01755	17.55602	17.39923	0.8518481	0.9215011	0.856715	-0.06478607
0.014918	0.00695	21.58124	18.26298	0.8568962	0.7940243	0.8481561	0.05413179
0.001624	0.00122	29.14596	27.89406	0.5198316	0.6375458	0.5260463	-0.1114995
0.047408	0.03194	14.95674	13.24148	0.8703417	0.8066049	0.8598472	0.05324227
0.019105	5.36E-05	42.70986	17.1886	0.5386691	0.7417014	0.6230301	-0.1186713
0.035339	0.00834	20.79053	14.51748	0.777358	0.9108041	0.8217025	-0.08910152
0.015999	0.00084	30.76986	17.95897	0.0536786	0.2394199	0.3295048	0.09008483
0.020517	0.00267	25.73101	16.87883	0.2796441	0.2165583	0.3297069	0.1131486
0.002449	0.03135	15.03741	26.11099	0.3173665	0.3734506	0.4751124	0.1016618
0.000314	2.93E-05	45.33321	35.02423	0.1398794	0.0719754	0.1361944	0.06421902
0.027724	0.01115	19.528	15.57143	0.902101	0.7478857	0.6277066	-0.1201791
0.020886	0.00264	25.77879	16.80139	0.7041845	0.5421516	0.4391103	-0.1030412
0.038025	0.03741	14.27066	14.19925	0.6910416	0.7759428	0.6948826	-0.08106028
0.008555	0.00579	22.37077	20.67757	0.8452842	0.7085853	0.5905518	-0.1180335

0.000404	0.00084	30.76374	33.93837	0.1714848	0.1044959	0.1794005	0.07490464
3.12E-06	8.05E-06	50.94343	55.0614	0.4300966	0.2413044	0.4063669	0.1650625
0.007135	0.00212	26.72912	21.46589	0.8803442	0.8147991	0.7244079	-0.09039111
0.048571	0.01097	19.59897	13.13626	0.135302	0.2848823	0.3872964	0.1024141
0.049255	0.01214	19.15828	13.07546	0.7671757	0.6296118	0.7184994	0.08888749
0.000177	0.00269	25.69623	37.53061	0.6967949	0.7762778	0.6339347	-0.1423431
0.033354	0.0053	22.76014	14.76848	0.7464607	0.858497	0.9212952	0.06279828
0.020179	0.01898	17.21618	16.95095	0.0937883	0.1521629	0.0955837	-0.05657918
0.039174	0.01145	19.41156	14.07	0.6254085	0.6929876	0.6326398	-0.06034778
0.013368	0.01092	19.61601	18.73932	0.7551242	0.8262795	0.7300065	-0.09627293
0.037552	0.0382	14.17947	14.25368	0.3819582	0.28477	0.2304815	-0.05428848
0.021311	0.01725	17.63328	16.71397	0.3392789	0.2586862	0.3324048	0.07371859
0.00153	0.00099	30.03603	28.15239	0.7848351	0.8930952	0.795925	-0.09717014
0.016691	0.005	23.01459	17.77522	0.7893836	0.6983751	0.7766458	0.07827065
0.039909	0.00052	32.80891	13.98932	0.7859605	0.6600251	0.5880221	-0.07200294
0.02931	6.12E-05	42.13583	15.32978	0.1275877	0.2270333	0.3811392	0.1541059
0.001586	0.0007	31.53911	27.99746	0.7931329	0.612291	0.4788389	-0.1334522
0.02932	0.00319	24.96797	15.32841	0.8297351	0.895634	0.7752677	-0.1203663
0.034898	0.0111	19.54663	14.57204	0.8660437	0.753923	0.6723132	-0.08160976
0.001716	7.82E-07	61.06741	27.65443	0.1063669	0.5570889	0.6623327	0.1052438
0.01359	0.00862	20.6436	18.66779	0.8124884	0.8975337	0.8293636	-0.06817
0.040988	0.03102	15.08396	13.87341	0.396479	0.2924114	0.3568116	0.06440023
0.043568	0.01894	17.2261	13.60832	0.6888918	0.7850047	0.707351	-0.07765373
0.009565	0.00447	23.50069	20.19332	0.15966	0.0825086	0.1537289	0.07122032
0.02188	0.03791	14.21215	16.59945	0.1788314	0.2510329	0.3508499	0.09981706
0.049657	0.03158	15.00628	13.04021	0.8399275	0.7568924	0.8253211	0.06842874
0.011126	0.01736	17.6051	19.53644	0.5239938	0.6052818	0.5234596	-0.08182224
6.48E-05	5.10E-05	42.92339	41.88218	0.7371835	0.8972607	0.7784765	-0.1187842
0.003848	0.0006	32.22326	24.1472	0.8507105	0.7751698	0.8274442	0.05227432
0.014641	0.02794	15.53703	18.34436	0.6353279	0.7150471	0.6242272	-0.09081985
0.023753	0.00078	31.06018	16.24277	0.9247825	0.7908258	0.8569986	0.06617279
0.000264	0.00021	36.81973	35.77959	0.1134758	0.0612062	0.1181845	0.05697828
0.006548	0.004	23.97731	21.83911	0.6617848	0.5252175	0.6523604	0.1271429
0.008074	0.01223	19.12666	20.92906	0.6081797	0.6797652	0.5954403	-0.08432486
0.016091	0.00059	32.27562	17.93424	0.1620845	0.2348911	0.1819001	-0.05299103
0.003473	0.00032	34.89176	24.59329	0.8686721	0.7626458	0.6870911	-0.07555471
0.033107	0.01986	17.01952	14.80075	0.3959348	0.2879246	0.3815955	0.09367086
0.010609	0.00164	27.84733	19.7433	0.4114064	0.4845416	0.4338905	-0.05065107
0.018178	0.01549	18.10066	17.40457	0.7496899	0.8184155	0.747143	-0.07127253
0.046947	0.04352	13.61334	13.28395	0.5424138	0.3900012	0.5447907	0.1547895
0.00153	0.01051	19.78369	28.15335	0.7156016	0.789388	0.676683	-0.112705
0.034776	0.01763	17.53761	14.58724	0.1019171	0.1955943	0.1202213	-0.07537291
0.005015	0.00147	28.33084	22.99766	0.7389087	0.6420251	0.7226107	0.08058558
0.00042	0.00065	31.87587	33.77265	0.5883477	0.7135876	0.5887313	-0.1248563
0.013841	0.02056	16.86955	18.58844	0.7170198	0.7949117	0.7121502	-0.08276162
0.018235	0.00063	31.99059	17.39105	0.8584194	0.4334233	0.6196156	0.1861922
0.016649	0.0209	16.79861	17.78622	0.8350222	0.7629786	0.672815	-0.09016364
0.024171	0.00015	38.34247	16.16711	0.822262	0.5871418	0.5004277	-0.08671408
0.001547	0.00254	25.95943	28.10405	0.629433	0.7926816	0.6391973	-0.1534844
0.027584	0.00476	23.2279	15.59347	0.0862214	0.2634488	0.3569785	0.09352966
0.000154	0.00018	37.46776	38.13377	0.6165987	0.8056799	0.6205781	-0.1851018
0.042643	0.03848	14.14792	13.70155	0.8266869	0.9083998	0.819149	-0.08925081
0.010205	0.00092	30.38369	19.91191	0.8425117	0.7421052	0.8035313	0.06142608
0.014356	0.02546	15.94182	18.42973	0.2908629	0.1822372	0.3132211	0.1309839

0.015304	0.04623	13.35113	18.15202	0.200679	0.3397833	0.5266312	0.1868479
3.87E-05	2.26E-05	46.46348	44.12794	0.7273338	0.8386198	0.7404662	-0.09815356
0.034841	0.00981	20.08309	14.57915	0.7628496	0.6666988	0.732715	0.06601613
0.027446	0.03062	15.14034	15.61518	0.8375736	0.6049594	0.8425176	0.2375582
0.010739	0.00044	33.53112	19.69025	0.6796855	0.563601	0.5068561	-0.05674485
0.000942	7.39E-05	41.31466	30.26141	0.1673946	0.0869986	0.1400412	0.0530426
0.020305	3.70E-05	44.32358	16.92397	0.7973567	0.4771527	0.3859143	-0.09123834
0.041665	0.04594	13.37808	13.80231	0.7173257	0.7824775	0.7150172	-0.06746033
0.000323	8.95E-05	40.48202	34.90925	0.1520845	0.0675654	0.1327483	0.06518289
0.041672	0.00762	21.17968	13.80159	0.8420671	0.6254839	0.5007036	-0.1247803
0.006334	0.00162	27.91752	21.9834	0.8644608	0.7844276	0.8450118	0.06058418
0.003668	0.01116	19.52347	24.35519	0.856531	0.7902806	0.6857207	-0.1045599
0.01993	0.00071	31.50976	17.00492	0.7244272	0.558718	0.4807267	-0.07799132
0.011584	0.00016	37.97675	19.36138	0.1939291	0.6643611	0.507261	-0.1571001
0.005601	0.0044	23.56883	22.5174	0.5738211	0.4909092	0.5827643	0.09185512
0.003078	0.00346	24.61071	25.11773	0.1680967	0.092936	0.1670893	0.07415327
0.022344	0.00227	26.44296	16.50832	0.8044515	0.6783707	0.5899203	-0.08845041
0.004746	0.02157	16.66166	23.23661	0.5860816	0.6634302	0.5570782	-0.106352
0.028342	0.00077	31.14578	15.47567	0.725912	0.5634919	0.6379564	0.07446446
0.024656	0.00062	32.07016	16.08075	0.8750916	0.810946	0.7311683	-0.0797777
0.034449	0.01535	18.1393	14.62821	0.9600228	0.890992	0.9450171	0.05402504
0.006589	0.00093	30.32871	21.81169	0.6124061	0.7657703	0.6531912	-0.1125791
0.000807	1.21E-05	49.18917	30.92999	0.7415048	0.8444768	0.7425196	-0.1019572
0.005585	0.00428	23.68192	22.52995	0.6655634	0.5627491	0.630113	0.06736383
0.025571	0.03279	14.84251	15.92257	0.5543128	0.6527681	0.5532093	-0.09955882
0.014122	0.00117	29.30437	18.50099	0.7621714	0.6114591	0.6848198	0.07336073
9.51E-05	0.00105	29.76789	40.21957	0.4127642	0.520435	0.4035927	-0.1168422
0.004631	0.00878	20.5635	23.34337	0.8543922	0.763819	0.6545206	-0.1092984
0.022425	0.01608	17.93585	16.49262	0.5781481	0.7723567	0.5993656	-0.1729911
0.000391	4.09E-05	43.88585	34.07928	0.128835	0.0487519	0.1120932	0.06334127
0.032373	0.01279	18.92962	14.89819	0.8111823	0.7393808	0.8003742	0.06099332
1.77E-05	3.69E-05	44.32652	47.5182	0.1494674	0.0859258	0.1365172	0.05059138
0.000938	0.00036	34.4765	30.27854	0.7374862	0.8104624	0.7488638	-0.06159857
0.008855	0.0001	39.92025	20.52829	0.7636032	0.6050587	0.6948461	0.08978742
0.01582	0.01045	19.80712	18.00803	0.5559639	0.6217638	0.5662862	-0.05547762
0.014614	0.00291	25.35989	18.35234	0.9239652	0.782803	0.6284255	-0.1543775
0.001288	0.00176	27.54422	28.89985	0.828135	0.9050438	0.7985987	-0.1064451
0.007721	0.03063	15.13863	21.1235	0.848433	0.9110776	0.8263429	-0.08473472
0.003473	0.00424	23.73139	24.59351	0.6663384	0.7566817	0.667232	-0.08944968
0.004413	0.0008	30.99282	23.55282	0.8257989	0.7476301	0.8030934	0.05546326
0.02905	0.03407	14.67623	15.36849	0.8044547	0.7084324	0.8074006	0.09896827
0.045487	0.0214	16.69523	13.4211	0.835152	0.7694697	0.8210181	0.05154838
0.004585	0.00029	35.39603	23.38658	0.702307	0.7758718	0.8265794	0.05070759
0.039236	0.0492	13.08053	14.06311	0.5483238	0.6648427	0.5135422	-0.1513005
0.003533	0.00343	24.64944	24.51892	0.8969382	0.963034	0.9073902	-0.05564382
0.009312	0.00318	24.97691	20.30943	0.8539103	0.796671	0.8468038	0.05013281
0.007103	0.01769	17.52317	21.48575	0.781816	0.7260715	0.6453696	-0.08070191
0.00586	6.82E-07	61.66529	22.3211	0.8742405	0.7592512	0.8182095	0.05895831
0.021478	0.03617	14.41707	16.68003	0.8373412	0.7738816	0.695219	-0.07866262
0.005139	0.00196	27.06766	22.89118	0.0823678	0.2017551	0.0729557	-0.1287994
7.47E-07	5.11E-06	52.91685	61.26725	0.5743623	0.7387736	0.5241543	-0.2146193
0.029261	0.0047	23.27598	15.33713	0.8079422	0.7072409	0.7721815	0.06494056
0.035584	0.01035	19.85107	14.48749	0.568997	0.6688151	0.6063275	-0.06248756
0.011111	0.02821	15.49582	19.54243	0.7886539	0.7026474	0.5770866	-0.1255609

0.014792	0.01801	17.44488	18.29986	0.4775963	0.6693296	0.4788114	-0.1905182
0.000173	1.29E-07	68.90439	37.6188	0.7968748	0.93672	0.8264517	-0.1102683
0.039322	0.01495	18.25455	14.05361	0.8531126	0.7848985	0.8383567	0.05345827
0.025757	0.00349	24.57192	15.89097	0.1620729	0.0758946	0.1278232	0.05192863
0.00716	0.00631	22.00223	21.45085	0.1252343	0.2932716	0.1215033	-0.1717683
0.001062	9.55E-05	40.19969	29.74078	0.839027	0.7374318	0.8074672	0.07003536
0.05006	0.00718	21.43665	13.0051	0.841441	0.6186278	0.5082247	-0.1104032
0.046855	0.00265	25.75941	13.29241	0.8749374	0.7448562	0.8033366	0.05848043
8.12E-06	9.17E-06	50.37859	50.90219	0.1328161	0.065829	0.1224112	0.05658223
0.039901	0.01039	19.83332	13.9902	0.8547898	0.6316978	0.4764568	-0.155241
0.000248	2.15E-05	46.67992	36.0629	0.7588904	0.9210423	0.7932648	-0.1277775
0.000469	1.35E-07	68.68816	33.29019	0.8501217	0.6802984	0.5218076	-0.1584909
0.010513	0.02579	15.88575	19.78285	0.8879341	0.9450873	0.8740119	-0.07107534
0.039261	0.0135	18.69537	14.06036	0.8529488	0.7197553	0.6286983	-0.09105695
0.017998	0.00119	29.23565	17.44772	0.1312534	0.3205879	0.4164443	0.09585646
0.002905	0.00212	26.74675	25.36807	0.6862618	0.8084602	0.6994807	-0.1089796
0.000101	1.88E-05	47.25223	39.97746	0.1211148	0.0645125	0.1189746	0.05446214
0.013092	0.03244	14.88924	18.83003	0.6221154	0.6921734	0.6015864	-0.09058696
0.002788	0.00371	24.3069	25.54705	0.6782274	0.8368921	0.676982	-0.1599102
0.033638	0.00337	24.72082	14.73165	0.7698146	0.6286278	0.5542604	-0.07436737
0.012517	0.01965	17.06682	19.02503	0.5899589	0.6604568	0.5795007	-0.08095612
0.006147	0.00403	23.94895	22.11306	0.7881842	0.7348284	0.7850204	0.05019191
0.037088	0.04492	13.47567	14.30769	0.8330181	0.900027	0.8260223	-0.07400469
5.20E-05	0.00011	39.45637	42.84147	0.1718557	0.0920384	0.1545802	0.06254184
0.001356	0.00051	32.91756	28.67803	0.7964385	0.8864806	0.81823	-0.06825062
0.034551	0.01132	19.46068	14.61545	0.7405618	0.6272542	0.5649747	-0.06227954
0.010536	0.00628	22.02174	19.77322	0.7730768	0.5993325	0.7615983	0.1622659
0.000406	0.00205	26.87765	33.91016	0.7980528	0.8519586	0.7846401	-0.06731854
0.025936	0.00292	25.35103	15.86105	0.8103848	0.7225651	0.7759707	0.05340562
0.006441	8.50E-05	40.70797	21.91048	0.7683136	0.5908206	0.5062217	-0.08459884
0.000185	0.0002	37.00288	37.33505	0.5254914	0.6843272	0.5452849	-0.1390424
0.006302	0.00848	20.71459	22.00548	0.9013578	0.9580314	0.8954935	-0.06253791
0.023524	0.01244	19.05319	16.28481	0.6995969	0.5840905	0.6437035	0.05961293
0.018774	0.00963	20.16331	17.26454	0.846615	0.7237229	0.6247147	-0.0990083
0.006957	0.00417	23.79461	21.57549	0.2461201	0.1174472	0.2307695	0.1133223
0.001842	0.00512	22.90663	27.34732	0.4617846	0.5558204	0.4379396	-0.1178808
0.042073	0.04577	13.39459	13.75994	0.1892763	0.1080818	0.1775736	0.06949177
0.000173	0.00169	27.71041	37.62228	0.1099499	0.0485566	0.1098144	0.06125781
0.004299	0.00791	21.01754	23.6667	0.1618654	0.2521316	0.3799672	0.1278356
0.040565	0.01884	17.24988	13.91844	0.7669273	0.864749	0.7936263	-0.07112262
0.000562	0.00772	21.12638	32.50434	0.6765572	0.8164028	0.6281799	-0.1882229
0.015112	0.00936	20.2869	18.20675	0.431038	0.2335257	0.3973421	0.1638164
0.015108	7.00E-06	51.54971	18.20783	0.106203	0.3036048	0.2316674	-0.0719375
0.011007	0.00026	35.83524	19.58342	0.6436567	0.3281256	0.4228846	0.09475899
0.033646	0.00894	20.48775	14.73071	0.8057796	0.7106068	0.6337553	-0.07685151
0.032229	0.03414	14.66732	14.91749	0.8738168	0.9306958	0.8758594	-0.05483647
0.004252	0.00083	30.8352	23.7144	0.1401659	0.0753243	0.1255081	0.05018383
0.034182	0.00088	30.56933	14.66209	0.7937022	0.6367134	0.7058064	0.06909303
0.000161	0.0003	35.17066	37.9308	0.8630646	0.9351935	0.8566034	-0.07859018
0.004399	0.00676	21.70012	23.56672	0.7049482	0.7929103	0.6958092	-0.09710108
0.03912	5.93E-06	52.26931	14.07598	0.2410139	0.5812883	0.660886	0.07959768
0.002173	0.00443	23.53433	26.62978	0.734479	0.80274	0.7067695	-0.09597053
0.030463	0.00033	34.79477	15.16226	0.8574869	0.7394701	0.7945193	0.05504919
0.013565	0.0149	18.26738	18.67565	0.1968611	0.1060921	0.2008179	0.09472579

0.047139	1.34E-05	48.72585	13.2662	0.0491708	0.5476551	0.6298046	0.08214946
0.003675	0.00091	30.40303	24.34751	0.8870697	0.950442	0.9000123	-0.05042978
0.034307	0.01457	18.36627	14.64617	0.6738992	0.7707673	0.7017443	-0.06902293
0.01585	0.01354	18.68427	17.99961	0.1233905	0.4161154	0.6533064	0.2371909
0.014228	0.00858	20.66311	18.46869	0.8792785	0.8131359	0.8718734	0.05873751
0.036483	0.02657	15.75674	14.37906	0.566003	0.6461827	0.5735892	-0.07259353
0.019043	0.02798	15.5313	17.20268	0.7246707	0.8332993	0.7087962	-0.1245031
0.025123	6.58E-05	41.81852	15.99932	0.544372	0.3268405	0.2529306	-0.07390993
0.000814	0.00211	26.75967	30.89313	0.7397059	0.8409106	0.7127688	-0.1281418
0.04505	0.0454	13.42952	13.46301	0.3949533	0.4719287	0.5363222	0.0643935
0.004326	0.00246	26.09296	23.63907	0.117623	0.0465238	0.1036415	0.0571177
0.038202	4.50E-05	43.47151	14.1791	0.7018166	0.3288352	0.4183281	0.08949298
4.41E-06	6.54E-05	41.84233	53.55833	0.6322691	0.7661253	0.5819488	-0.1841765
0.001393	0.00896	20.47775	28.5602	0.7499602	0.8593482	0.7300279	-0.1293203
0.022671	0.00091	30.39951	16.44531	0.8299375	0.7519726	0.6669724	-0.08500017
0.000603	0.00258	25.89132	32.19697	0.5684924	0.6697963	0.5594001	-0.1103962
0.002673	0.00143	28.43827	25.72969	0.8079563	0.8983973	0.8227139	-0.07568337
0.00852	0.02685	15.71029	20.69538	0.5572292	0.698045	0.5000361	-0.1980089
7.54E-06	2.34E-07	66.31668	51.22711	0.0804127	0.3619594	0.5284849	0.1665255
0.012508	0.02147	16.68162	19.02795	0.7133823	0.801784	0.6901842	-0.1115998
0.006222	0.0067	21.73758	22.06058	0.4134141	0.3297153	0.4124089	0.08269358
0.030526	0.00331	24.80135	15.15324	0.8173287	0.577152	0.6929131	0.1157611
0.027373	0.00085	30.71818	15.62671	0.8079215	0.6787098	0.5961818	-0.08252805
0.008678	0.00218	26.60892	20.61587	0.8814681	0.8080907	0.8628086	0.05471797
0.004951	0.01219	19.14057	23.0532	0.5859963	0.7049902	0.5675136	-0.1374766
0.002037	0.00032	34.94894	26.90944	0.0771693	0.1537316	0.0984333	-0.05529828
0.021228	0.02389	16.21805	16.73081	0.7767656	0.6940395	0.7774433	0.08340375
0.004523	3.60E-05	44.43689	23.44547	0.8409988	0.9014326	0.8414744	-0.05995818
0.009288	0.00025	35.99351	20.32073	0.5072814	0.6666496	0.7471954	0.08054569
0.015563	0.03829	14.16916	18.07911	0.3662531	0.3107522	0.3841592	0.07340699
0.046782	0.01748	17.57577	13.29925	0.8875054	0.8008277	0.8628358	0.06200811
0.008451	0.0069	21.61269	20.73116	0.1937774	0.0940285	0.1737838	0.07975531
0.002199	0.00101	29.97285	26.57676	0.3012451	0.2041408	0.2958351	0.0916943
0.0199	0.00047	33.25742	17.01156	0.738	0.5448862	0.6366163	0.0917301
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4.33E-05	0.00059	32.26225	43.63021	0.9083443	0.9712581	0.8839812	-0.08727693
9.15E-05	6.10E-06	52.14572	40.38565	0.189833	0.0903914	0.1766525	0.08626112
0.008056	0.00835	20.78332	20.93902	0.4929992	0.5735606	0.4922059	-0.08135467
0.018229	0.00077	31.12512	17.39227	0.8673719	0.6924232	0.6068749	-0.08554824
0.020267	5.99E-05	42.2287	16.93208	0.2999851	0.6581229	0.5518823	-0.1062406
0.02546	0.01608	17.93745	15.94147	0.7020803	0.8273843	0.7119554	-0.1154289
0.034415	0.03143	15.02652	14.63255	0.6625143	0.7380704	0.6702539	-0.06781652
0.008164	0.04711	13.26927	20.88123	0.6895933	0.6049781	0.4946811	-0.110297
0.025254	5.45E-06	52.63655	15.97677	0.8790753	0.6310017	0.5438599	-0.08714176
0.007112	0.00131	28.83231	21.4803	0.7873815	0.8794933	0.7991017	-0.08039169
0.027461	0.00063	32.01178	15.61288	0.7750883	0.6098797	0.5164943	-0.09338535
0.030413	0.0004	34.00903	15.16946	0.0944756	0.3799922	0.4869386	0.1069464
5.83E-05	0.00012	39.13461	42.34592	0.7991251	0.8590071	0.7872618	-0.0717453
0.006079	0.0041	23.86866	22.16143	0.8421832	0.7582345	0.8350612	0.0768267
0.026711	0.01154	19.37981	15.73306	0.7282424	0.8107408	0.7391512	-0.07158951
0.039287	0.00166	27.7926	14.0575	0.8940699	0.778548	0.8316594	0.05311135
9.57E-06	1.22E-05	49.13322	50.18863	0.6079146	0.8190495	0.6475232	-0.1715264
0.042918	0.00017	37.64663	13.67361	0.776572	0.6175082	0.5447234	-0.07278486
0.000253	0.00115	29.40701	35.9677	0.7370263	0.8256819	0.7041445	-0.1215374

0.00137	0.00397	24.01002	28.6313	0.4841543	0.5401612	0.4724247	-0.06773652
0.003438	0.03678	14.34425	24.63718	0.8755468	0.9362861	0.838489	-0.09779708
0.016416	0.02223	16.53158	17.84729	0.6975435	0.7602719	0.6944377	-0.06583421
0.005257	0.00103	29.87899	22.79292	0.2008187	0.1152099	0.1735824	0.05837255
0.024529	0.00694	21.58542	16.10322	0.8491158	0.6489319	0.5341487	-0.1147832
0.00188	1.54E-05	48.12785	27.25743	0.1083863	0.0408086	0.0952631	0.05445446
0.001008	0.0013	28.844	29.96749	0.9131558	0.9645748	0.9019397	-0.06263499
0.008006	0.01885	17.24658	20.96586	0.3874411	0.4383172	0.3773226	-0.0609946
0.011664	0.02175	16.62574	19.33145	0.7621945	0.6684633	0.7635185	0.09505514
0.000247	0.00113	29.45512	36.07592	0.5230952	0.6011639	0.5096991	-0.09146477
0.03217	0.01294	18.88072	14.92543	0.8342161	0.5822024	0.4167237	-0.1654787
0.041358	0.01044	19.81278	13.83441	0.7855923	0.6928313	0.7547395	0.0619082
0.025815	0.03563	14.48172	15.88123	0.7496373	0.8113575	0.7414756	-0.06988191
0.011071	0.01501	18.23568	19.55801	0.580113	0.7504324	0.5638252	-0.1866071
0.007957	0.00385	24.14885	20.99271	0.7155373	0.5563037	0.6937675	0.1374638
0.048833	0.00374	24.26576	13.11289	0.839187	0.7596493	0.6615079	-0.09814147
0.043044	0.04756	13.22746	13.66085	0.9259417	0.830438	0.7241232	-0.1063148
0.019244	0.00164	27.86043	17.15697	0.1459433	0.3202749	0.4287477	0.1084727
0.044863	0.04259	13.70647	13.48114	0.4034067	0.2798113	0.4011178	0.1213065
0.028159	0.03224	14.91571	15.50381	0.2843405	0.1632179	0.2886153	0.1253974
0.002149	0.00131	28.82023	26.67718	0.4039913	0.2488933	0.3619855	0.1130922
0.008156	0.00518	22.85673	20.8852	0.8104296	0.6294571	0.8013987	0.1719417
0.015691	0.00849	20.71181	18.04351	0.8833677	0.8252104	0.8753387	0.05012827
0.009245	0.00013	38.72042	20.34103	0.8735154	0.6677002	0.5692885	-0.09841173
0.0084	0.0124	19.0645	20.75713	0.1486393	0.0929813	0.1494485	0.05646718
0.04607	8.48E-08	70.71431	13.36582	0.2301782	0.8301856	0.7653769	-0.06480875
0.00082	0.00044	33.59604	30.86389	0.7415743	0.9107422	0.7655852	-0.145157
0.000177	7.66E-05	41.15639	37.51923	0.7917266	0.7189535	0.7755584	0.05660476
0.005569	0.0022	26.57477	22.54234	0.4777199	0.6944053	0.7634322	0.06902688
0.004807	0.00511	22.91156	23.18159	0.2144485	0.1307103	0.2086586	0.07794824
0.03448	0.02165	16.64475	14.62427	0.2390836	0.1798664	0.229867	0.05000057
0.012077	0.03728	14.28509	19.18048	0.8178669	0.8958589	0.7886826	-0.1071763
0.007494	0.00168	27.73958	21.25303	0.8838207	0.655238	0.8066617	0.1514236
8.24E-05	0.00023	36.40866	40.83867	0.4408444	0.5832424	0.4360241	-0.1472183
0.021326	0.00386	24.13863	16.71095	0.9151124	0.7806646	0.6974402	-0.08322435
0.005383	0.01034	19.85563	22.69003	0.0889476	0.1964086	0.3109394	0.1145308
0.004283	0.004	23.97813	23.68244	0.8738246	0.8146728	0.7176527	-0.0970202
0.036617	0.02557	15.92203	14.36315	0.5370879	0.4176485	0.5192972	0.1016488
0.024851	0.04973	13.03413	16.04648	0.8487548	0.7750317	0.8650392	0.09000754
0.009022	0.001	30.00144	20.4472	0.8516804	0.737627	0.6571854	-0.08044159
0.010773	0.0011	29.59904	19.67665	0.5157998	0.74595	0.5972172	-0.1487328
0.018838	0.03166	14.99555	17.24955	0.8239542	0.7355713	0.6357502	-0.09982113
0.005812	0.0146	18.35741	22.35688	0.9620644	0.8114617	0.6338163	-0.1776454
0.046562	0.02379	16.23598	13.31965	0.2580704	0.3734729	0.2889521	-0.08452073
0.006567	4.50E-06	53.4711	21.82659	0.8429679	0.7275859	0.5990303	-0.1285556
0.025885	0.03041	15.16974	15.86952	0.5462716	0.7462934	0.5411878	-0.2051055
0.012698	0.00109	29.60851	18.9627	0.1715354	0.2826845	0.3572086	0.07452416
0.000461	0.00027	35.7491	33.36103	0.8061064	0.7259775	0.7836113	0.05763377
0.009829	0.00664	21.77955	20.0749	0.8435773	0.9081625	0.8516924	-0.05647
0.009897	0.0043	23.66554	20.0451	0.2087158	0.1388993	0.1948643	0.05596502
0.042373	0.00426	23.70256	13.72907	0.8408216	0.6621969	0.5266216	-0.1355752
0.044697	0.0461	13.36272	13.49718	0.884438	0.7717542	0.8827302	0.110976
0.000291	0.01287	18.90483	35.36556	0.2067493	0.3224954	0.4313838	0.1088884
0.002101	0.0027	25.68171	26.77508	0.74898	0.6559398	0.7411203	0.0851805

0.003014	0.00372	24.29066	25.20927	0.4555338	0.6775879	0.4598537	-0.2177342
0.039149	0.00534	22.72518	14.07284	0.8777306	0.7995157	0.851855	0.05233934
0.049141	0.0327	14.8543	13.08553	0.8954676	0.7409175	0.8726012	0.1316837
0.017813	0.00695	21.58191	17.49261	0.0492166	0.1171567	0.0645141	-0.05264256
0.047501	0.00272	25.6528	13.23298	0.8854713	0.8196239	0.7330189	-0.08660495
0.004338	0.00609	22.15652	23.62748	0.8137581	0.7231562	0.6323217	-0.09083443
0.031486	0.01548	18.10323	15.0188	0.7263336	0.7884332	0.7113442	-0.07708896
0.047787	0.01586	17.99794	13.20686	0.0966445	0.2120015	0.1329186	-0.07908298
0.011312	0.00097	30.11273	19.46455	0.811458	0.7129815	0.7753028	0.06232128
0.017317	0.03105	15.07959	17.61518	0.737501	0.8306892	0.7256598	-0.1050293
0.033545	0.00104	29.81518	14.74368	0.0622483	0.2614067	0.3506016	0.08919496
0.01106	0.00021	36.71779	19.56255	0.8048552	0.5973973	0.6829831	0.08558577
0.012318	0.00026	35.77931	19.09472	0.8904051	0.7792714	0.8484554	0.06918393
0.044032	0.00112	29.5117	13.56227	0.7785471	0.6289269	0.6885327	0.05960579
0.001392	0.00079	31.03549	28.5651	0.7677654	0.8827944	0.8042709	-0.07852357
0.00664	0.01066	19.7212	21.7784	0.472924	0.5961505	0.4680243	-0.1281262
0.040161	0.01444	18.40485	13.96193	0.1256105	0.2013285	0.2794955	0.0781671
0.00081	0.00233	26.32056	30.91257	0.8881838	0.9406585	0.8721373	-0.06852116
0.005107	0.00205	26.8883	22.91805	0.8811119	0.7388728	0.8536808	0.1148081
0.00052	0.00035	34.60993	32.83954	0.1327405	0.0825241	0.1331203	0.05059619
0.000147	1.84E-05	47.34199	38.33389	0.3358974	0.1469101	0.2909465	0.1440365
0.00181	0.00043	33.67833	27.42379	0.1391269	0.0725203	0.1235074	0.05098717
0.002557	0.00806	20.93747	25.92217	0.4820799	0.5738255	0.4799356	-0.09388995
0.028031	0.0296	15.2868	15.52361	0.150462	0.0872891	0.1495414	0.06225237
0.03248	0.02644	15.77659	14.88383	0.8788095	0.8215897	0.8752438	0.05365411
0.004873	0.00473	23.25421	23.12218	0.8626372	0.808165	0.7319221	-0.07624281
0.018793	0.04344	13.62099	17.25993	0.8240811	0.7297765	0.5999653	-0.1298112
0.034902	0.00759	21.19476	14.57147	0.8238491	0.750206	0.8034552	0.05324921
0.003501	4.90E-05	43.09952	24.55811	0.7179384	0.5994344	0.6573964	0.05796199
0.000159	1.61E-07	67.92371	37.99936	0.215855	0.061208	0.1853175	0.1241095
0.009028	0.00676	21.69761	20.44388	0.7993123	0.8943034	0.7919616	-0.1023418
0.040312	0.03063	15.13915	13.94564	0.8340129	0.6885002	0.5502592	-0.138241
0.03909	0.04166	13.8025	14.07938	0.1796443	0.094681	0.1530471	0.05836604
0.000202	4.80E-05	43.18876	36.95024	0.1541424	0.3673968	0.4422137	0.07481697
0.025747	0.00492	23.07832	15.8928	0.7098907	0.5593159	0.4764942	-0.08282173
0.002995	0.00179	27.47041	25.23642	0.2375145	0.1375838	0.2245385	0.08695472
0.045547	0.03397	14.68853	13.4154	0.4039736	0.3293032	0.4206961	0.09139286
0.032423	0.00181	27.41978	14.89151	0.2082813	0.3800021	0.286871	-0.0931311
0.034911	0.02107	16.76394	14.57035	0.9470577	0.8818426	0.7693164	-0.1125262
0.046107	0.03448	14.6238	13.36234	0.4869531	0.5887245	0.496545	-0.09217947
0.00313	0.00637	21.95682	25.04444	0.4681184	0.6049612	0.4666958	-0.1382654
0.030156	0.05005	13.00628	15.20621	0.797135	0.7235093	0.6391646	-0.08434473
0.030006	0.00249	26.02966	15.22796	0.83311	0.7495521	0.6979555	-0.05159663
0.00747	0.00316	25.00594	21.26651	0.2557778	0.1567395	0.2401437	0.08340418
0.035362	0.03424	14.65408	14.51464	0.9133032	0.8540565	0.9133415	0.05928501
0.000238	0.00056	32.54842	36.22579	0.8835913	0.7376572	0.5962942	-0.1413631
0.036231	0.00039	34.10996	14.40924	0.7569929	0.6626286	0.5982189	-0.06440969
0.033005	0.00752	21.23732	14.81415	0.3486219	0.6293852	0.6820549	0.05266975
0.001746	0.00182	27.40861	27.57891	0.6675957	0.8492532	0.674094	-0.1751591
0.024209	0.00796	20.98913	16.16022	0.8779434	0.7700016	0.6803772	-0.08962443
0.006883	0.00288	25.39933	21.62196	0.8325542	0.924814	0.8455248	-0.07928931
0.005027	0.0019	27.20816	22.987	0.7079098	0.8222237	0.7351266	-0.08709712
0.019795	0.00864	20.6337	17.03448	0.9205551	0.8595476	0.9101545	0.05060693
0.035547	0.00401	23.9673	14.49201	0.7376363	0.8187553	0.7667766	-0.05197864



0.007681	7.27E-06	51.3839	21.14568	0.8339624	0.6379752	0.542837	-0.09513815
0.004011	0.00936	20.28905	23.96697	0.8883184	0.7657049	0.5803719	-0.1853331
0.026519	0.00023	36.42874	15.76443	0.77678	0.6302462	0.6952149	0.06496875
0.013363	0.0069	21.60899	18.74087	0.057248	0.1210305	0.0709684	-0.05006206
0.011384	0.00393	24.05819	19.43693	0.8993183	0.8187539	0.882994	0.06424004
0.000238	0.00024	36.25896	36.23832	0.2176825	0.1359013	0.2126017	0.07670046
0.032989	0.00052	32.82802	14.81637	0.3324113	0.5433348	0.6261854	0.08285058
0.002747	0.02356	16.27737	25.61168	0.8043618	0.7324325	0.7965846	0.06415211
0.00811	0.01695	17.70807	20.90997	0.7782041	0.8426214	0.7685336	-0.07408784
0.041953	0.02228	16.52008	13.7724	0.6836166	0.7987716	0.7062007	-0.09257094
0.002018	0.00066	31.83227	26.95098	0.0853269	0.0153476	0.0724251	0.05707747
0.039366	0.01507	18.22027	14.04875	0.8866587	0.8099434	0.7510583	-0.05888512
0.03646	0.01024	19.89688	14.38182	0.8567458	0.7499748	0.6405806	-0.1093943
0.002854	0.00109	29.64372	25.44616	0.4415384	0.5000682	0.4498365	-0.05023175
0.023788	0.00058	32.34064	16.23648	0.8338297	0.6639708	0.736311	0.07234013
0.03978	0.04878	13.11778	14.00338	0.6552178	0.738969	0.6503065	-0.08866244
0.037558	0.00193	27.14315	14.25295	0.8739823	0.7960572	0.7093875	-0.0866697
0.003949	0.00096	30.1965	24.0353	0.8322681	0.7458253	0.8080807	0.06225537
0.005574	0.00687	21.629	22.53801	0.6711742	0.7774153	0.6778248	-0.09959047
0.003383	0.00189	27.22616	24.70744	0.8973513	0.834242	0.8867859	0.05254377
0.038907	0.00025	36.09302	14.09967	0.7449062	0.5667413	0.6404509	0.0737096
0.022122	0.01369	18.63643	16.55167	0.7895959	0.8841043	0.8022832	-0.08182108
0.001766	0.00586	22.31748	27.53008	0.7439138	0.8378972	0.7370827	-0.1008145
0.012847	0.02323	16.33954	18.91188	0.3503931	0.4685727	0.3108308	-0.1577419
0.025347	8.02E-06	50.9563	15.9608	0.4140474	0.8601229	0.7532325	-0.1068903
0.008587	0.0094	20.26873	20.66136	0.8098206	0.7335057	0.8091869	0.07568123
0.032091	0.00434	23.62257	14.93624	0.2667566	0.5793829	0.7379982	0.1586153
0.015989	0.00528	22.77591	17.96192	0.1575162	0.0733875	0.1402592	0.06687167
0.00924	0.02344	16.30026	20.34305	0.5286787	0.3486813	0.5861828	0.2375015
0.015959	0.03911	14.07734	17.96982	0.7680373	0.8221048	0.7518826	-0.07022221
0.049201	0.00505	22.96693	13.0803	0.7230295	0.5616201	0.6503016	0.0886816
0.005807	0.00627	22.02397	22.36059	0.8717759	0.7467914	0.5911706	-0.1556207
0.003686	0.00383	24.16865	24.33406	0.6983723	0.7517541	0.6962886	-0.05546554
0.04088	0.01377	18.61191	13.88489	0.8278598	0.6737384	0.7821301	0.1083918
0.032563	0.01304	18.84725	14.87273	0.8317486	0.9340284	0.8385859	-0.09544247
0.018175	0.00828	20.81829	17.40534	0.7912347	0.8992205	0.8138458	-0.08537471
0.021121	0.03694	14.3256	16.75291	0.7320281	0.7996086	0.6876355	-0.1119731
0.006719	0.00182	27.39919	21.72688	0.8144131	0.8833641	0.8278646	-0.05549944
7.85E-06	1.22E-05	49.13007	51.0506	0.7424746	0.838053	0.7415861	-0.09646693
0.042483	0.01423	18.46864	13.71786	0.6383539	0.7380203	0.66787	-0.07015034
0.022838	0.01697	17.70198	16.41346	0.0438692	0.2023575	0.3315617	0.1292042
0.02706	0.02946	15.30698	15.67673	0.6533263	0.7655324	0.6571774	-0.108355
0.01387	0.00227	26.4451	18.57928	0.8634677	0.807971	0.7288982	-0.0790728
0.005108	2.07E-05	46.84372	22.91725	0.7401752	0.9399985	0.8785445	-0.06145398
0.003934	0.00882	20.54566	24.05137	0.853736	0.9113523	0.8450085	-0.06634385
0.001543	0.0037	24.32222	28.11546	0.48484	0.5487024	0.4733428	-0.07535957
0.013791	6.80E-05	41.67682	18.60413	0.1274944	0.4352035	0.5769309	0.1417274
0.032255	0.03117	15.06293	14.91408	0.8520569	0.9070957	0.8520265	-0.05506919
0.025832	0.01183	19.27057	15.87846	0.8542739	0.7789695	0.8387191	0.05974956
0.014242	0.02634	15.79328	18.4642	0.7701647	0.8632116	0.7595146	-0.1036971
0.036513	0.01219	19.13938	14.37553	0.8122303	0.7411994	0.7923257	0.0511263
0.02824	0.00236	26.27754	15.49138	0.8138416	0.394687	0.5657759	0.1710889
0.041508	0.0235	16.28911	13.81869	0.817733	0.7097538	0.6087551	-0.1009987
0.025369	0.00139	28.56997	15.957	0.5921808	0.4043169	0.3059525	-0.09836446

0.039799	0.0006	32.21688	14.00133	0.8607858	0.6270078	0.5583928	-0.06861503
0.017966	0.00979	20.09207	17.45561	0.8435537	0.9083773	0.8469999	-0.06137734
0.001701	3.16E-05	44.99873	27.69325	0.8897535	0.7915404	0.7282152	-0.06332529
0.008598	0.00504	22.97319	20.65619	0.7372907	0.8510392	0.7618243	-0.08921483
0.031399	0.01834	17.36621	15.03083	0.8510872	0.6712869	0.8216414	0.1503545
0.0133	0.01299	18.86465	18.76141	0.8732816	0.9441397	0.8740129	-0.07012676
0.04204	0.03216	14.92633	13.76335	0.1536292	0.2196467	0.2836834	0.06403671
0.023944	0.00264	25.79058	16.20806	0.7043102	0.5712644	0.4916957	-0.07956868
0.038923	2.21E-08	76.56133	14.09797	0.310499	0.8412703	0.7724336	-0.06883667
0.019689	0.02369	16.25438	17.05787	0.7643518	0.8519754	0.7646991	-0.08727629
0.023967	0.00038	34.17295	16.20394	0.8530511	0.4718824	0.3397938	-0.1320886
0.030792	0.03266	14.85938	15.11556	0.6757312	0.8165267	0.6778897	-0.138637
0.002552	0.00078	31.06706	25.93145	0.7036706	0.770666	0.7147179	-0.05594814
0.036748	0.00047	33.23412	14.34772	0.1674576	0.0585517	0.1310326	0.07248098
0.005118	0.00107	29.7077	22.90932	0.8380094	0.7448996	0.8099128	0.06501323
0.001756	0.00104	29.82516	27.55563	0.2045124	0.1240387	0.1971902	0.07315154
7.39E-05	3.26E-05	44.87434	41.31491	0.4527412	0.3675402	0.4393431	0.07180288
0.003471	0.01157	19.36775	24.5957	0.8645792	0.916555	0.8509729	-0.06558221
0.000809	0.00168	27.75879	30.91977	0.8432266	0.7543821	0.8494671	0.09508495
1.17E-05	1.73E-06	57.61478	49.30223	0.598111	0.7303874	0.5996434	-0.130744
0.006685	0.00479	23.19301	21.7487	0.8152484	0.9111348	0.8297496	-0.08138523
0.002347	0.00238	26.23339	26.2956	0.498673	0.6175264	0.4979974	-0.119529
0.012104	0.01647	17.83266	19.17089	0.1851676	0.2940055	0.4192724	0.125267
0.002075	0.00455	23.41839	26.82925	0.1815184	0.1027237	0.1935712	0.09084745
0.032363	0.01538	18.1296	14.89957	0.8573213	0.7259259	0.8266791	0.1007531
0.021424	0.01544	18.11456	16.691	0.1263553	0.3473834	0.1668089	-0.1805745
0.006704	0.02501	16.01971	21.73685	0.7522125	0.8283004	0.7266122	-0.1016882
0.000537	0.00033	34.81923	32.70228	0.1540484	0.0917694	0.1443748	0.0526054
0.013932	0.00496	23.04502	18.55995	0.5701318	0.6515809	0.5878646	-0.06371623
0.003762	0.00189	27.24611	24.24582	0.2755	0.1830086	0.2629364	0.07992782
0.012784	0.00801	20.96186	18.93325	0.7779604	0.8744965	0.7891218	-0.08537467
0.005453	0.02634	15.79439	22.6334	0.1109302	0.1932845	0.3078043	0.1145198
0.032627	0.04932	13.06937	14.86426	0.614087	0.6944506	0.6009003	-0.09355028
0.006684	0.00045	33.46052	21.74982	0.8362435	0.7475322	0.7988877	0.0513555
0.009672	0.02983	15.25384	20.14473	0.7250065	0.8089896	0.700779	-0.1082106
0.042913	0.0001	39.87845	13.67411	0.7780866	0.6139366	0.6688354	0.05489884
0.022867	0.0018	27.45142	16.40786	0.734821	0.5991736	0.6770389	0.07786532
0.017595	0.00055	32.60081	17.54608	0.8372229	0.6938735	0.7789009	0.08502735
0.016765	0.03901	14.08876	17.75588	0.6564153	0.746673	0.6346403	-0.1120328
0.025882	9.81E-06	50.08356	15.86998	0.3093929	0.5790091	0.5112399	-0.06776914
0.039398	0.00931	20.31267	14.04529	0.166939	0.0900273	0.1470581	0.05703074
0.003329	1.62E-06	57.91192	24.77692	0.7119079	0.8086085	0.7458064	-0.06280208
0.017234	0.04131	13.83926	17.63624	0.7217294	0.6482841	0.5700696	-0.07821454
0.002804	0.00286	25.42902	25.52261	0.845264	0.7790962	0.8467726	0.0676764
0.022814	0.00936	20.28681	16.41792	0.7476428	0.5732672	0.6964242	0.123157
0.017432	0.04322	13.6431	17.58656	0.886683	0.8293139	0.7555681	-0.07374573
0.005776	4.41E-06	53.55152	22.38377	0.7204312	0.5147581	0.4391297	-0.07562834
0.030239	0.03042	15.16876	15.19439	0.9011911	0.7236407	0.903993	0.1803523
0.049519	0.01334	18.7494	13.05225	0.6896879	0.839255	0.746605	-0.09265001
0.000512	0.00048	33.17143	32.9031	0.4027314	0.32016	0.3961824	0.07602243
0.012117	0.00443	23.54084	19.16607	0.2230888	0.1388565	0.2090645	0.07020796
0.000571	0.00155	28.09379	32.43561	0.5171724	0.4039487	0.5163863	0.1124377
0.020353	0.02932	15.32766	16.91368	0.8363109	0.7166848	0.580548	-0.1361368
0.026871	0.02008	16.97198	15.70717	0.048967	0.1497635	0.056477	-0.09328653

0.032658	0.00287	25.42493	14.86017	0.8807278	0.7244388	0.8043216	0.07988279
0.002598	7.71E-05	41.12848	25.85288	0.8293033	0.6898039	0.5914726	-0.09833131
0.039558	0.01203	19.19869	14.02763	0.8747863	0.9453325	0.8174827	-0.1278498
6.28E-05	0.00025	36.09257	42.02377	0.4981799	0.558764	0.4841057	-0.07465831
0.004899	0.00676	21.70341	23.09862	0.8585132	0.5264453	0.2339363	-0.292509
0.000116	0.00055	32.60441	39.36928	0.8454553	0.9292803	0.8405645	-0.08871578
0.004422	0.00271	25.66651	23.54428	0.7944015	0.8866073	0.816039	-0.07056831
0.002436	0.00684	21.64902	26.13312	0.6051509	0.6904695	0.581628	-0.1088415
0.000329	0.00063	32.03238	34.82771	0.7835128	0.8762743	0.7650212	-0.1112531
0.001739	0.011	19.58518	27.59746	0.8646892	0.9190907	0.8443103	-0.07478049
0.030173	0.01889	17.2383	15.20382	0.1207734	0.2017731	0.2861488	0.08437569
0.0282	0.02712	15.66671	15.49758	0.6852379	0.4308451	0.6680823	0.2372371
0.049392	0.00837	20.77113	13.06345	0.8495559	0.5828276	0.7250224	0.1421949
0.037325	0.00724	21.40458	14.28006	0.173864	0.257439	0.1935834	-0.06385564
0.049344	0.01457	18.36666	13.06764	0.8756306	0.6746834	0.8031771	0.1284937
0.043424	0.0097	20.13304	13.62265	0.687582	0.7717109	0.7150818	-0.05662919
0.013604	0.0025	26.01808	18.66319	0.7863001	0.6875536	0.7555542	0.06800061
0.027823	0.04546	13.42369	15.55592	0.90114	0.8435819	0.9113399	0.06775802
0.042084	0.00502	22.98968	13.7588	0.1143082	0.2453871	0.1720658	-0.07332127
0.024508	0.013	18.85914	16.10691	0.857558	0.7712319	0.8445904	0.07335848
0.00434	3.47E-06	54.59765	23.62473	0.0829898	0.2756808	0.3442323	0.06855147
0.042049	0.04213	13.75412	13.76241	0.6650454	0.593393	0.6472703	0.05387738
0.020726	0.01456	18.36712	16.83487	0.873741	0.7631277	0.6719606	-0.09116711
0.001335	0.00316	25.0094	28.74566	0.8694368	0.9630315	0.8949153	-0.06811617
0.016827	0.00595	22.25335	17.73981	0.8414144	0.6906571	0.575025	-0.1156321
0.001189	0.00018	37.55209	29.24983	0.3134332	0.173149	0.3088698	0.1357208
0.016247	0.02128	16.72123	17.89233	0.8356324	0.7769874	0.6762068	-0.1007806
0.007229	0.00024	36.24178	21.40945	0.8772898	0.7201578	0.6189567	-0.1012011
0.019592	0.03918	14.06915	17.07921	0.0658034	0.1397493	0.0406568	-0.09909251
0.024275	0.00877	20.57224	16.14846	0.8116851	0.7191968	0.7932376	0.07404078
0.024334	0.00066	31.78833	16.13787	0.5141903	0.6758901	0.7491675	0.07327736
0.019054	0.02318	16.34816	17.20017	0.7369766	0.8605543	0.732472	-0.1280823
0.018213	0.00555	22.56073	17.39614	0.8881359	0.8172101	0.8676187	0.05040856
0.002268	0.00019	37.11944	26.44292	0.6112722	0.7017547	0.6404685	-0.06128618
0.001395	0.00102	29.89499	28.55569	0.781348	0.6804904	0.5510741	-0.1294163
0.001004	0.00025	35.97321	29.98475	0.836434	0.6077187	0.4629227	-0.144796
0.000138	2.33E-05	46.33321	38.6031	0.1533487	0.0866389	0.142842	0.05620314
0.028001	0.00198	27.04166	15.52822	0.7630358	0.6318964	0.7036036	0.07170726
0.002075	5.76E-05	42.394	26.83082	0.1368813	0.0560922	0.108918	0.05282581
0.016737	0.00178	27.49628	17.76324	0.7915879	0.6703205	0.5929265	-0.07739396
0.00815	0.03955	14.02886	20.8883	0.5712561	0.6543065	0.5395729	-0.1147336
0.029757	0.00075	31.27073	15.26408	0.4540555	0.5916039	0.538378	-0.05322594
0.007047	0.01123	19.4949	21.52003	0.6633751	0.779978	0.6487271	-0.131251
0.020337	0.00176	27.55059	16.91704	0.852753	0.76267	0.6608293	-0.1018407
0.01663	0.03465	14.60254	17.79113	0.7402942	0.8260425	0.7263943	-0.09964822
0.000687	0.00223	26.52018	31.6301	0.1363775	0.0745389	0.1338059	0.05926701
0.000207	0.00049	33.13615	36.84853	0.137996	0.0687422	0.1335654	0.06482318
0.001626	0.00837	20.77466	27.88987	0.7097548	0.8299911	0.6950554	-0.1349357
0.004013	0.03824	14.17496	23.9649	0.6098767	0.6893421	0.5489505	-0.1403917
0.020574	0.00472	23.25722	16.86685	0.8953536	0.752391	0.6455814	-0.1068096
0.003192	0.01389	18.57234	24.95904	0.2324768	0.1344654	0.2557314	0.121266
0.008393	0.0119	19.24428	20.76062	0.6848226	0.7865804	0.6757901	-0.1107902
0.020596	0.02584	15.87717	16.86207	0.2956699	0.194086	0.3014143	0.1073283
0.005449	0.0094	20.26777	22.63722	0.8031966	0.7333715	0.8130406	0.07966909

0.004048	1.32E-06	58.78743	23.92795	0.112513	0.5128793	0.5733339	0.0604546
0.00567	0.00397	24.00787	22.46441	0.9166648	0.8511015	0.9132264	0.0621249
0.001235	0.00228	26.4159	29.08167	0.8363525	0.8962916	0.8223133	-0.0739783
0.013947	0.00187	27.27778	18.55527	0.8373504	0.7221248	0.6301146	-0.09201021
0.000681	0.00125	29.01551	31.67129	0.7225704	0.8356974	0.7306508	-0.1050466
0.004196	9.83E-05	40.07355	23.77153	0.1654123	0.0831211	0.1429466	0.05982555
0.049737	0.041	13.87173	13.03319	0.2539112	0.1921776	0.2483818	0.05620416
0.0167	2.65E-05	45.76114	17.77288	0.4913827	0.3053046	0.2421308	-0.06317388
0.031044	0.00402	23.95426	15.08022	0.7593547	0.567998	0.6729608	0.1049628
0.003442	0.00148	28.28763	24.63184	0.0589403	0.2469997	0.3881924	0.1411927
0.010592	0.00151	28.21752	19.75037	0.79818	0.8772104	0.8166473	-0.06056311
0.018198	0.00831	20.80371	17.39973	0.4141848	0.3192335	0.4033673	0.0841337
0.035589	3.02E-06	55.20657	14.48683	0.8603655	0.6566402	0.7084085	0.05176822
0.033858	0.00037	34.34317	14.70338	0.7868078	0.6620618	0.5965822	-0.06547953
0.019334	0.00054	32.68117	17.13667	0.8011504	0.7274473	0.6545217	-0.07292556
0.001269	0.00023	36.42586	28.96471	0.7303248	0.6204755	0.5232686	-0.09720697
0.009192	0.01129	19.47298	20.36572	0.5990571	0.4087456	0.5918542	0.1831086
0.04035	0.02877	15.41043	13.94152	0.7906945	0.6854577	0.5828448	-0.1026129
0.011386	0.00034	34.72186	19.43613	0.7779043	0.6233128	0.5004134	-0.1228994
0.016102	4.31E-05	43.65971	17.93113	0.8327166	0.7036881	0.6391091	-0.06457902
0.039809	0.02354	16.28169	14.00014	0.8017116	0.5883862	0.7684655	0.1800793
5.18E-07	0.00023	36.41331	62.8589	0.1229329	0.0544837	0.1083645	0.05388082
0.00163	0.00472	23.25966	27.87899	0.409661	0.3505217	0.4183958	0.06787408
0.015059	0.02031	16.92218	18.22212	0.8398726	0.8989576	0.8378964	-0.06106114
0.01004	0.04264	13.70161	19.98285	0.8075894	0.722226	0.8526482	0.1304222
0.040366	0.02186	16.60337	13.93984	0.7835001	0.5889136	0.7359349	0.1470213
0.016027	0.00816	20.88441	17.95142	0.3262394	0.5306423	0.6914518	0.1608095
0.000796	0.00016	38.03277	30.98821	0.8788524	0.933603	0.8174961	-0.1161069
0.044883	0.0048	23.18396	13.47919	0.8136023	0.6709501	0.5857869	-0.08516324
0.000821	0.00072	31.45217	30.85644	0.1261413	0.0701582	0.1248524	0.05469421
0.026455	0.0474	13.24183	15.77498	0.8357161	0.7418399	0.622564	-0.1192759
0.025665	0.00034	34.63317	15.90665	0.3112548	0.2231537	0.2920396	0.06888587
0.043342	0.00017	37.79337	13.63094	0.797871	0.6127995	0.6869233	0.07412386
0.001273	0.00343	24.64891	28.95226	0.1989515	0.1476336	0.2224255	0.07479196
0.028716	0.02756	15.59734	15.41883	0.8253462	0.8900893	0.8217289	-0.06836037
0.002977	0.00765	21.16594	25.2621	0.7240215	0.6734573	0.7352873	0.06183006
0.000269	0.00108	29.67704	35.69707	0.5577838	0.7230747	0.5580263	-0.1650485
0.037292	0.0018	27.4406	14.28384	0.5804692	0.6780527	0.585962	-0.09209064
0.000357	5.59E-07	62.52468	34.47084	0.5357025	0.6312621	0.5359319	-0.09533016
0.045115	0.00018	37.39635	13.45681	0.5990649	0.414199	0.5018274	0.0876284
0.025148	0.01125	19.48847	15.99499	0.6731406	0.7489855	0.6806812	-0.0683043
0.024194	0.0156	18.07003	16.16299	0.5532688	0.695703	0.5720579	-0.1236452
0.016811	0.00041	33.83757	17.74409	0.330207	0.2621079	0.3258293	0.06372138
0.016099	0.00015	38.30506	17.93211	0.8564411	0.7914116	0.8436018	0.05219027
0.048025	3.51E-06	54.54626	13.18534	0.863467	0.6059016	0.6972657	0.09136417
0.016983	0.01603	17.95091	17.69998	0.6940267	0.7733583	0.6972285	-0.07612985
0.040556	0.02676	15.72567	13.91947	0.8073204	0.712228	0.8004916	0.08826364
0.000311	0.00277	25.57314	35.07784	0.8630195	0.9140447	0.8409563	-0.07308838
0.000441	8.22E-05	40.85342	33.55859	0.0419839	0.1291077	0.0648048	-0.06430281
0.00193	0.00297	25.26906	27.14428	0.8217322	0.9011132	0.8158025	-0.08531066
0.02997	0.0152	18.18166	15.23309	0.9143001	0.8487654	0.7958816	-0.05288388
0.022402	0.02511	16.00214	16.49704	0.831746	0.7700778	0.836032	0.06595413
0.020309	0.00111	29.55273	16.92302	0.3663723	0.2611507	0.32766	0.06650931
4.73E-05	1.92E-05	47.17825	43.25023	0.1372723	0.069222	0.119766	0.05054395

0.000248	0.0018	27.45857	36.05402	0.6078348	0.674788	0.5988886	-0.07589938
0.003808	0.0102	19.9143	24.19313	0.4479221	0.5318923	0.4441298	-0.08776248
0.008611	0.00164	27.83983	20.64936	0.7155073	0.5359232	0.6629838	0.1270606
1.73E-05	1.34E-05	48.7128	47.62411	0.7780861	0.8876616	0.7988313	-0.0888303
0.017849	0.02113	16.75067	17.48395	0.7467172	0.5656167	0.7179802	0.1523635
0.046002	0.00126	28.9859	13.37221	0.3845041	0.4698645	0.5281189	0.05825441
0.003143	0.0024	26.19915	25.0271	0.4605035	0.3624576	0.451204	0.08874637
0.046619	0.00618	22.08889	13.31438	0.886369	0.7658596	0.8323119	0.06645228
0.001732	0.00062	32.1007	27.61511	0.9268652	0.8437922	0.8986448	0.05485266
0.022459	0.01087	19.63623	16.48607	0.630097	0.712361	0.6423731	-0.06998791
0.026795	0.02126	16.72384	15.71946	0.1712269	0.0945579	0.1599337	0.06537582
0.004637	0.00784	21.05698	23.33803	0.8149813	0.8993848	0.8169132	-0.08247161
0.01277	0.02353	16.28442	18.93823	0.5091494	0.5670902	0.4925138	-0.07457635
0.000296	7.87E-05	41.03767	35.28141	0.9044039	0.8221676	0.8890977	0.06693006
0.009449	0.01637	17.85999	20.24635	0.7768071	0.6749411	0.5653939	-0.1095472
0.018789	0.00035	34.55281	17.26103	0.23297	0.1632278	0.2271737	0.06394593
0.023417	0.04301	13.66394	16.30477	0.4071419	0.4644985	0.5360581	0.07155965
0.016846	0.01121	19.50384	17.73493	0.802396	0.7090161	0.7971304	0.08811428
0.002022	0.00127	28.95093	26.94263	0.4687399	0.5706001	0.4771226	-0.0934775
0.018649	0.0002	37.04411	17.29346	0.3380912	0.6302822	0.7564121	0.1261298
0.002862	0.00343	24.64305	25.43274	0.7541454	0.6910121	0.7560331	0.06502103
0.007986	0.00299	25.24471	20.9768	0.8684925	0.7703865	0.8523451	0.08195864
0.007641	0.00724	21.40234	21.16854	0.7828458	0.6367597	0.4918568	-0.1449029
0.015266	0.01799	17.45041	18.16275	0.8167166	0.7101762	0.594966	-0.1152103
0.032535	0.00162	27.89304	14.87645	0.0932577	0.456709	0.5879341	0.1312252
0.03744	0.04997	13.01266	14.26659	0.8734334	0.7484605	0.8858923	0.1374318
5.11E-05	0.00259	25.86163	42.91407	0.7084272	0.8197024	0.6905081	-0.1291943
0.003628	3.60E-06	54.43145	24.40331	0.0738744	0.0125735	0.0634245	0.05085102
0.021749	0.00427	23.69738	16.62569	0.0634972	0.4009593	0.5642574	0.1632981
0.008744	0.00839	20.76408	20.5828	0.6640303	0.7333748	0.6645765	-0.0687982
0.015566	0.01888	17.23976	18.07814	0.888563	0.8068455	0.693293	-0.1135525
0.009295	0.00179	27.46098	20.31758	0.8642452	0.7932116	0.8448724	0.05166081
0.000258	0.0005	32.97723	35.87617	0.7558731	0.6635587	0.7271399	0.06358117
0.048348	0.00271	25.66506	13.15618	0.9071817	0.8034704	0.8569672	0.05349683
0.024668	0.00501	23.00174	16.07866	0.83448	0.7492838	0.8047149	0.05543111
0.028436	0.00747	21.26952	15.46135	0.1404071	0.2219825	0.3165108	0.09452827
0.027106	0.00059	32.31697	15.66938	0.7649342	0.5932209	0.6723887	0.07916781
0.032828	0.00024	36.15621	14.83762	0.8774405	0.7221825	0.782479	0.06029658
0.006963	0.00264	25.78109	21.57228	0.8821614	0.6649251	0.5202673	-0.1446578
0.006132	0.00332	24.78743	22.12414	0.1991973	0.1369582	0.1914157	0.05445752
0.021717	0.00739	21.31213	16.63197	0.8086416	0.7025086	0.777578	0.07506939
0.029876	0.00204	26.90318	15.24679	0.9021659	0.6263726	0.5194756	-0.1068971
6.72E-05	4.53E-05	43.44189	41.72374	0.774271	0.8822588	0.7933617	-0.08889717
0.035753	0.00654	21.84134	14.46686	0.0899705	0.4033728	0.5591626	0.1557898
0.033132	0.03732	14.28066	14.79748	0.1228637	0.2342936	0.1242634	-0.1100302
0.01044	0.01283	18.91877	19.81304	0.6572996	0.7520882	0.6627734	-0.08931479
0.002305	0.00193	27.13722	26.37285	0.5601778	0.6659809	0.5631812	-0.1027997
1.05E-05	1.16E-07	69.37153	49.80386	0.2784972	0.0807798	0.2800263	0.1992465
0.000111	2.04E-06	56.9121	39.56632	0.1183567	0.0468998	0.099802	0.05290217
0.023616	0.03032	15.18227	16.26785	0.7697237	0.8553674	0.7708735	-0.08449396
0.008125	0.00042	33.71992	20.90162	0.5023583	0.7094823	0.6050532	-0.1044291
0.021818	0.01626	17.88996	16.61191	0.1771198	0.1151514	0.1716919	0.05654056
0.027669	0.00717	21.44752	15.58002	0.8302855	0.7246965	0.6384881	-0.08620848
0.036642	0.04002	13.97768	14.36022	0.7934317	0.6997899	0.6069177	-0.09287225

0.007009	0.00782	21.07063	21.54318	0.862671	0.9282447	0.8623092	-0.06593549
0.000812	0.01639	17.85435	30.90266	0.6885301	0.7639351	0.6173703	-0.1465648
0.005718	0.00402	23.95896	22.42728	0.9691446	0.9044507	0.797736	-0.1067146
0.003762	0.0002	36.92675	24.24565	0.7549273	0.8667212	0.7526239	-0.1140973
0.025163	0.01349	18.69921	15.99243	0.7609337	0.8330262	0.7735205	-0.05950569
0.003226	0.00037	34.29261	24.91282	0.7994552	0.7203924	0.6284473	-0.0919451
0.046406	0.00691	21.60243	13.33426	0.0799675	0.1895041	0.1221513	-0.06735279
0.018867	0.00531	22.74586	17.24305	0.7391547	0.8751838	0.7885409	-0.08664297
0.039476	0.0032	24.94541	14.03672	0.2800123	0.5140527	0.3926185	-0.1214342
0.017884	1.74E-05	47.59352	17.47537	0.6477096	0.4866821	0.5526258	0.06594377
0.011801	0.01476	18.30812	19.28076	0.8902273	0.941118	0.8889224	-0.05219556
0.000385	0.00112	29.49544	34.14069	0.7205219	0.9198293	0.7472112	-0.1726182
0.034863	0.00346	24.61498	14.57634	0.7197016	0.6353329	0.7008642	0.06553134
0.03945	0.00234	26.31311	14.03957	0.1109896	0.3449968	0.4358337	0.09083695
0.024566	0.03297	14.8183	16.09673	0.8004422	0.8603323	0.7964619	-0.06387036
0.01954	0.0025	26.02878	17.09066	0.8447414	0.7600432	0.8357672	0.07572401
0.000269	1.71E-05	47.6654	35.70852	0.2196196	0.0831767	0.1801651	0.09698841
0.005228	0.00151	28.2169	22.81673	0.1322196	0.0713489	0.1270031	0.05565429
0.000632	0.0007	31.57701	31.99606	0.1948461	0.1309416	0.1828471	0.05190552
5.08E-05	4.30E-05	43.66074	42.94129	0.1171376	0.0495357	0.1195483	0.07001264
0.007048	0.00844	20.73515	21.51942	0.7847493	0.8614239	0.7942542	-0.06716958
0.000828	0.00028	35.52862	30.82036	0.8972355	0.9609935	0.9051021	-0.05589148
0.004679	7.29E-05	41.36981	23.29885	0.2690887	0.5214298	0.6270055	0.1055757
3.79E-05	1.48E-05	48.29518	44.21368	0.1059455	0.0388354	0.0989884	0.06015309
0.049236	0.00559	22.5249	13.07718	0.7105352	0.5858126	0.659298	0.07348543
0.024346	0.03287	14.8314	16.13581	0.5256142	0.5953473	0.513989	-0.08135833
0.003817	0.0004	34.00728	24.18316	0.7124616	0.7880142	0.7213645	-0.06664971
0.000119	0.01767	17.52848	39.26246	0.8838146	0.9591149	0.8307567	-0.1283583
0.004879	0.00096	30.1829	23.1171	0.8146249	0.8857257	0.8210364	-0.06468926
0.031924	0.04881	13.11447	14.9588	0.0408191	0.0965744	0.187369	0.09079457
1.52E-05	2.29E-06	56.40436	48.19402	0.1179152	0.050623	0.1070283	0.05640525
0.032431	9.01E-06	50.45463	14.89036	0.2968132	0.5600409	0.4292857	-0.1307552
0.003493	0.00055	32.56371	24.56825	0.687435	0.7965318	0.7178854	-0.07864639
0.022891	0.0024	26.1967	16.40328	0.1190931	0.2388618	0.1653324	-0.07352943
0.010166	0.0032	24.94224	19.92863	0.6494716	0.8190961	0.6645701	-0.154526
0.009164	0.02618	15.82012	20.37925	0.8444539	0.7177431	0.5522988	-0.1654443
9.16E-05	0.0004	34.01117	40.38251	0.6982815	0.7981622	0.6719997	-0.1261625
0.028043	0.00139	28.55674	15.52173	0.5351555	0.7882859	0.6760382	-0.1122477
0.025713	0.01141	19.42724	15.89846	0.8544304	0.7813714	0.6905807	-0.09079068
0.024014	2.64E-05	45.78026	16.19538	0.0640902	0.5671135	0.706471	0.1393575
0.010271	0.02057	16.86738	19.88371	0.1144062	0.1878975	0.3854761	0.1975785
0.0431	0.04943	13.0597	13.65523	0.8545822	0.7853535	0.8600391	0.07468561
0.018276	0.04155	13.81458	17.38115	0.5329341	0.4480949	0.5554963	0.1074014
0.010528	5.66E-05	42.47549	19.77643	0.2357412	0.4279872	0.4993798	0.07139254
0.000963	0.00197	27.04692	30.16597	0.2470633	0.1497885	0.2599853	0.1101967
0.000859	0.00064	31.95078	30.66179	0.6075471	0.6783262	0.6077597	-0.07056656
0.002556	0.00534	22.7211	25.92425	0.1141852	0.0466805	0.1073399	0.06065936
0.008735	0.00678	21.68516	20.58718	0.8500745	0.9294102	0.8512713	-0.07813893
0.019144	0.00362	24.41263	17.17975	0.1355923	0.0626279	0.1139675	0.05133961
0.002393	0.00082	30.84638	26.20996	0.2107559	0.1306648	0.1943273	0.0636625
0.01873	0.00012	39.15141	17.27467	0.6406275	0.4484683	0.5209175	0.07244913
0.004175	0.00311	25.07141	23.79345	0.7518281	0.8388662	0.7581912	-0.08067506
0.008829	0.00364	24.38401	20.54093	0.8882265	0.7700987	0.8637431	0.09364433
0.046805	0.01361	18.66107	13.29709	0.8786241	0.8273563	0.7707965	-0.05655982

0.046017	0.00024	36.14108	13.37079	0.905032	0.7874156	0.6787957	-0.10862
0.000168	0.00547	22.61998	37.75119	0.6606743	0.7723355	0.6098724	-0.1624631
0.000406	0.00577	22.38569	33.91217	0.6519471	0.7183323	0.6095997	-0.1087326
0.030967	0.03114	15.06688	15.09096	0.7899077	0.700861	0.788036	0.08717503
0.010484	0.00333	24.78144	19.79478	0.8062981	0.6459076	0.5250174	-0.1208902
0.040322	0.01538	18.13037	13.94453	0.9179395	0.8117425	0.8875093	0.07576682
0.002981	0.00672	21.72553	25.25566	0.2068308	0.1110042	0.2328276	0.1218234
0.018623	0.0008	30.95541	17.2994	0.6945488	0.4270551	0.5746885	0.1476334
0.003657	0.00037	34.28917	24.36897	0.1853314	0.1086129	0.1709844	0.06237148
0.000967	0.0028	25.52794	30.14719	0.5674356	0.6540804	0.5464167	-0.1076637
0.019442	0.04004	13.97534	17.11261	0.2939433	0.2422387	0.3009441	0.05870539
0.032634	0.00208	26.81202	14.86324	0.8419358	0.6965619	0.6188121	-0.07774981
0.02435	0.03186	14.96813	16.13502	0.8542948	0.7873054	0.8615956	0.07429019
0.003619	0.00546	22.62567	24.4146	0.5270881	0.6024271	0.524489	-0.07793818
0.003629	0.00662	21.79206	24.40266	0.5980495	0.6713343	0.5934616	-0.07787272
0.039555	0.00503	22.98517	14.02799	0.7354457	0.4726894	0.3329783	-0.1397111
0.015734	0.00487	23.12717	18.0316	0.8188815	0.6353796	0.460819	-0.1745606
0.026099	0.01403	18.53034	15.83374	0.9188201	0.8504487	0.9068543	0.05640563
0.003104	0.00217	26.63344	25.08101	0.1898814	0.134645	0.1854903	0.05084531
0.002017	0.00176	27.55149	26.9519	0.9067737	0.7888012	0.6316264	-0.1571748
3.64E-05	8.56E-06	50.67754	44.38377	0.3794942	0.1432852	0.3444563	0.2011711
0.004828	0.0067	21.73969	23.16274	0.3680657	0.4783083	0.3772692	-0.1010391
0.015262	0.01985	17.02195	18.16391	0.7679597	0.7082551	0.6356232	-0.07263189
0.015688	0.00441	23.55419	18.04423	0.7221063	0.6246174	0.7050046	0.0803872
0.012578	0.01121	19.50361	19.00372	0.1178	0.0543476	0.1104609	0.05611332
0.010491	0.02661	15.7499	19.79179	0.8660319	0.7832526	0.8390794	0.05582678
0.000882	0.00125	29.04594	30.54369	0.4476429	0.5687361	0.4873692	-0.08136688
0.015477	0.00047	33.24206	18.1031	0.7022311	0.7885724	0.7215986	-0.06697386
0.040439	0.00165	27.83211	13.93198	0.3182623	0.6629608	0.513678	-0.1492829
0.048392	0.0296	15.28705	13.15231	0.693697	0.5790592	0.4759636	-0.1030956
0.008967	0.0117	19.31945	20.4736	0.7265194	0.8440922	0.7260787	-0.1180136
0.001497	0.00132	28.79521	28.24855	0.7761228	0.7178118	0.7785234	0.06071154
8.78E-05	0.00019	37.2079	40.5644	0.8206013	0.886391	0.8161991	-0.07019192
0.005936	0.02752	15.6041	22.26499	0.6886167	0.7461529	0.6608234	-0.08532941
0.004362	4.42E-05	43.5485	23.60314	0.2993478	0.6337996	0.7275106	0.09371108
0.008606	0.00068	31.66047	20.65208	0.1324299	0.2761442	0.3556082	0.07946399
0.035778	0.02327	16.33127	14.46383	0.7448376	0.635332	0.5429996	-0.09233242
0.027046	0.03689	14.33063	15.6789	0.3960053	0.2835952	0.4099391	0.1263438
0.026969	0.02502	16.01643	15.69133	0.7911748	0.6745464	0.7825848	0.1080384
0.044637	0.01412	18.50085	13.50305	0.1336606	0.3508543	0.1933602	-0.1574941
0.038193	0.02156	16.66327	14.18022	0.8190968	0.8913347	0.8293374	-0.06199727
0.014507	0.00116	29.35972	18.38437	0.6956508	0.4247628	0.5891447	0.1643819
0.000243	0.00061	32.12206	36.13599	0.3012941	0.1549617	0.2829835	0.1280218
0.011861	0.03298	14.81724	19.25891	0.7520599	0.6359769	0.4884775	-0.1474994
0.00096	0.00012	39.21854	30.17927	0.1710844	0.0842162	0.1577017	0.07348551
0.048115	0.0421	13.757	13.17722	0.2276151	0.1528084	0.2219194	0.06911102
0.019361	0.00483	23.16151	17.13077	0.7476276	0.8251507	0.7438431	-0.08130757
0.006214	0.0153	18.1525	22.0663	0.4425311	0.5020359	0.4300193	-0.07201655
0.0167	0.00412	23.85474	17.77295	0.8616258	0.7655467	0.8334922	0.0679455
0.037844	0.0447	13.49686	14.22007	0.1272776	0.2090527	0.1195318	-0.08952086
0.01691	0.01424	18.46425	17.71859	0.8763723	0.6693959	0.4889337	-0.1804623
0.004781	0.00096	30.18909	23.20514	0.8710489	0.6358542	0.4735463	-0.1623079
0.003908	0.00122	29.13602	24.08048	0.2074272	0.1413053	0.1969465	0.05564127
0.017004	0.01211	19.16874	17.69439	0.0629623	0.1959701	0.076335	-0.1196352

0.000926	1.61E-05	47.94482	30.33319	0.7383981	0.5143009	0.6307153	0.1164144
0.006131	0.00204	26.89607	22.12439	0.7485473	0.8719145	0.757326	-0.1145885
0.001052	0.00086	30.67594	29.77844	0.1598809	0.091325	0.1606162	0.06929115
0.040887	0.00122	29.13116	13.88412	0.146788	0.4417983	0.5688316	0.1270333
0.025775	0.01189	19.24769	15.88802	0.8940123	0.8075876	0.6910107	-0.1165769
0.006251	0.00022	36.5345	22.04038	0.1238297	0.4319911	0.5722282	0.1402371
0.001839	0.00078	31.08229	27.35397	0.8068883	0.7114335	0.7855828	0.07414929
0.006571	0.00016	37.99751	21.82381	0.7518782	0.865469	0.7386524	-0.1268165
0.000117	3.46E-05	44.6133	39.3021	0.1597923	0.0929865	0.1442558	0.05126928
0.000766	0.00035	34.53213	31.15787	0.5540171	0.6477659	0.5726162	-0.07514964
0.00051	0.00085	30.71665	32.92743	0.5014067	0.6191983	0.5182136	-0.1009847
1.61E-05	4.23E-05	43.73857	47.92133	0.5978143	0.7097474	0.5825992	-0.1271483
0.041378	4.21E-05	43.76062	13.83236	0.8474618	0.7792397	0.7253191	-0.0539205
0.001396	0.00106	29.75657	28.55162	0.5743195	0.7788925	0.6091043	-0.1697882
0.015209	0.0423	13.73621	18.17905	0.6970344	0.8124354	0.6591127	-0.1533227
0.007658	0.00151	28.21598	21.15873	0.1344611	0.077613	0.137161	0.05954802
0.048499	0.00084	30.75304	13.14264	0.8214937	0.6693975	0.5973442	-0.07205329
0.000123	0.00079	31.02924	39.11845	0.3629165	0.1735568	0.3431053	0.1695485
1.53E-06	0.00275	25.60314	58.15804	0.6671694	0.5344989	0.6448913	0.1103923
0.039078	0.03294	14.8226	14.08069	0.9078104	0.7965689	0.9009059	0.1043371
0.009858	0.00889	20.50887	20.06192	0.360408	0.2730438	0.3579886	0.0849448
0.000279	0.00022	36.59137	35.55004	0.5430219	0.6821162	0.5297784	-0.1523377
0.007543	0.00728	21.37853	21.22454	0.8303868	0.7389856	0.6650745	-0.07391103
0.024056	0.00453	23.44341	16.18783	0.8079331	0.6112446	0.7345259	0.1232813
0.036319	0.00027	35.62659	14.39866	0.0830736	0.4193579	0.5128922	0.09353437
0.000149	2.97E-06	55.26759	38.28207	0.8160059	0.697392	0.7519915	0.05459953
0.022451	0.0083	20.80806	16.48765	0.706595	0.6387036	0.583546	-0.05515762
0.010073	0.00881	20.55124	19.96852	0.6871864	0.5291956	0.6814219	0.1522263
0.000437	6.96E-05	41.57563	33.5961	0.2768672	0.1843762	0.2525948	0.06821861
0.013587	0.01578	18.01957	18.6689	0.8170617	0.7635995	0.8225043	0.05890485
0.032289	0.01963	17.0703	14.90941	0.8385465	0.9096665	0.8479197	-0.06174682
0.016641	0.00607	22.16701	17.78813	0.0694098	0.1334176	0.0817916	-0.051626
0.028545	0.01064	19.7304	15.44465	0.8019029	0.7041371	0.7803574	0.07622027
0.038177	0.00034	34.65562	14.18203	0.6597175	0.8144193	0.7594192	-0.05500007
0.001053	4.06E-05	43.91317	29.7738	0.7840715	0.6931927	0.7660388	0.07284609
0.034319	0.00983	20.07431	14.64468	0.7540962	0.6345567	0.7173399	0.08278318
0.026512	0.04711	13.26912	15.76559	0.8544794	0.9047215	0.8442927	-0.06042879
0.00052	0.00174	27.59826	32.8363	0.8183478	0.9262871	0.8152719	-0.1110152
0.008492	0.01105	19.56693	20.7099	0.6352366	0.7674788	0.6255898	-0.141889
0.020209	0.0108	19.665	16.94456	0.7411073	0.5406942	0.433356	-0.1073382
0.010124	0.01549	18.10076	19.9465	0.6871452	0.7580907	0.680053	-0.0780377
0.008309	0.01759	17.54806	20.8043	0.6635754	0.7517887	0.6506671	-0.1011217
0.040664	0.0048	23.18925	13.9079	0.0634761	0.1997986	0.1225677	-0.07723096
0.043707	0.00288	25.40165	13.59445	0.1649049	0.418491	0.5209459	0.1024548
0.035063	0.01748	17.57486	14.55153	0.2559492	0.1690881	0.2406784	0.07159033
0.041137	0.03194	14.95651	13.85773	0.6965705	0.8256018	0.7129475	-0.1126543
0.01791	0.03689	14.33136	17.46913	0.3571458	0.2704019	0.3806907	0.1102889
0.026906	0.00101	29.96195	15.70155	0.8676846	0.726895	0.6393312	-0.0875638
0.002663	0.00031	35.07804	25.74674	0.0471989	0.1998948	0.0921843	-0.1077105
0.015602	0.00018	37.41294	18.06821	0.3207075	0.1264716	0.2099324	0.08346076
0.002133	0.00198	27.03491	26.71014	0.4825375	0.5605081	0.4920327	-0.06847538
0.022957	0.02329	16.32837	16.39087	0.8121479	0.7294816	0.8136601	0.08417843
0.009431	0.01443	18.40825	20.25457	0.712954	0.7954572	0.7119077	-0.08354954
0.023897	0.00051	32.93116	16.21659	0.8495695	0.6691369	0.75648	0.08734307



0.029242	0.00851	20.70142	15.33987	0.8125061	0.6847669	0.5911697	-0.09359724
0.032542	0.0012	29.20073	14.87554	0.1288479	0.2257898	0.1727584	-0.05303147
0.018174	0.01843	17.34448	17.4056	0.2596928	0.1504887	0.2552129	0.1047242
0.004172	0.00027	35.68858	23.7963	0.2606804	0.2103371	0.2857631	0.07542603
0.002	0.02974	15.2665	26.99059	0.6168994	0.6828838	0.572758	-0.1101258
0.013432	0.01458	18.36106	18.71867	0.0373981	0.1738634	0.3325813	0.1587179
0.043671	0.03629	14.40154	13.59809	0.8549707	0.7187627	0.5870844	-0.1316783
0.049134	0.04462	13.50497	13.0862	0.1238821	0.1849074	0.2686692	0.08376179
0.043776	0.01249	19.03467	13.58764	0.134241	0.2971542	0.4077642	0.11061
0.004511	0.00012	39.33558	23.45724	0.2384407	0.1753105	0.2423988	0.06708833
0.003683	0.00014	38.50589	24.33788	0.8860735	0.8063033	0.8621274	0.05582403
0.009678	0.01469	18.32935	20.14236	0.8844512	0.7595055	0.6255181	-0.1339873
0.001132	0.00142	28.46384	29.4598	0.7870698	0.8487997	0.7856658	-0.06313387
1.70E-05	8.63E-08	70.64013	47.70798	0.7891402	0.9042311	0.8339435	-0.07028768
0.008734	0.00479	23.19319	20.58769	0.2526324	0.1668399	0.2397692	0.07292929
0.006212	0.00847	20.71866	22.06757	0.8561847	0.9184713	0.8610913	-0.05738007
0.001118	0.00016	37.99006	29.51602	0.8167999	0.9012246	0.8404179	-0.06080676
0.025316	0.00218	26.61081	15.96607	0.8719991	0.7261297	0.6593259	-0.06680379
5.70E-05	0.00035	34.53917	42.44241	0.8872154	0.834794	0.8994513	0.06465725
0.047793	0.01341	18.72576	13.20633	0.8611556	0.6934604	0.5696101	-0.1238504
0.00513	0.00022	36.65333	22.89881	0.153778	0.5648903	0.719914	0.1550237
0.009336	0.00573	22.41921	20.29824	0.9016981	0.7404907	0.8758126	0.1353219
0.02104	0.00027	35.7493	16.7695	0.6990609	0.5721418	0.4944895	-0.07765231
0.026438	0.04003	13.97616	15.77768	0.3581548	0.2621143	0.3673639	0.1052497
0.010174	8.17E-05	40.87806	19.92529	0.1511166	0.0643814	0.1313697	0.06698826
2.59E-06	1.90E-06	57.21874	55.85871	0.4429732	0.5559449	0.404875	-0.1510699
0.0021	0.00383	24.17337	26.7786	0.863997	0.9270087	0.8635756	-0.06343309
0.003115	0.00979	20.09096	25.06575	0.6175941	0.6998377	0.5826619	-0.1171759
0.00072	0.0012	29.21309	31.42876	0.8596783	0.9376166	0.8726454	-0.06497123
0.000506	0.00106	29.74269	32.96208	0.622478	0.731325	0.6357951	-0.09552989
3.20E-06	1.36E-06	58.66415	54.95312	0.582223	0.6919916	0.574905	-0.1170866
0.03146	0.00036	34.48732	15.02243	0.9150243	0.8253546	0.8756467	0.05029217
0.004863	0.00112	29.49669	23.13098	0.8727279	0.7980186	0.8538413	0.05582273
0.027767	0.00366	24.3612	15.5647	0.8198971	0.7511485	0.6776997	-0.07344878
0.043156	5.88E-08	72.30683	13.64954	0.3945881	0.886978	0.8357878	-0.0511901
0.040511	5.98E-05	42.23281	13.92431	0.8201659	0.5700608	0.6343625	0.0643017
2.22E-05	2.23E-06	56.52077	46.54073	0.2305463	0.1274658	0.2094134	0.08194757
0.00313	0.00101	29.96891	25.0451	0.1633333	0.0830964	0.1484267	0.06533034
0.021759	0.03701	14.31665	16.62364	0.9186897	0.8243117	0.6998075	-0.1245042
0.036244	0.00098	30.07874	14.40765	0.0788454	0.401969	0.4966859	0.09471688
0.013108	0.01423	18.46643	18.82468	0.8430635	0.8995878	0.841714	-0.05787373
0.047119	0.03486	14.57614	13.26802	0.4499224	0.2845716	0.4277574	0.1431858
0.031525	0.00024	36.15884	15.01341	0.7522843	0.5175725	0.4319664	-0.0856061
0.041021	0.04447	13.51943	13.8699	0.815363	0.7461516	0.818513	0.0723614
0.000111	6.95E-07	61.57705	39.54824	0.336179	0.1508101	0.2779158	0.1271057
0.004467	6.66E-05	41.76404	23.49952	0.1531042	0.3317567	0.4131506	0.08139386
0.021278	0.04235	13.73125	16.72068	0.4993672	0.4397526	0.5120623	0.07230961
0.007427	0.00157	28.02798	21.29177	0.9134609	0.8393911	0.8959035	0.05651245
0.030568	0.00282	25.49279	15.14732	0.8701636	0.7853081	0.705254	-0.08005416
0.047336	0.04599	13.37293	13.24804	0.6434865	0.7606398	0.6441405	-0.1164993
0.006002	8.45E-08	70.73197	22.217	0.196929	0.9103366	0.8042268	-0.1061097
0.015495	0.00624	22.04943	18.09806	0.8279823	0.9221017	0.8554055	-0.06669624
0.000916	0.00034	34.69471	30.38084	0.1120327	0.2449408	0.3823667	0.1374259
0.038546	7.42E-05	41.29863	14.1402	0.802845	0.6708067	0.7245655	0.05375879

0.028772	0.02064	16.85297	15.41035	0.720812	0.8299396	0.7347407	-0.09519892
0.018999	0.02765	15.58331	17.21264	0.5929917	0.6602114	0.5871176	-0.07309385
0.007673	0.00314	25.02905	21.15059	0.9748106	0.838675	0.6973641	-0.1413109
0.047366	0.00142	28.46954	13.24536	0.6765734	0.5051141	0.4510796	-0.05403445
4.49E-05	0.00103	29.88754	43.4821	0.821099	0.9010637	0.74574	-0.1553238
0.004636	0.00301	25.21281	23.3381	0.1546248	0.0721957	0.151147	0.07895129
0.00214	0.00017	37.81816	26.69583	0.1368565	0.0640778	0.1204995	0.05642169
0.03257	0.00019	37.24619	14.87186	0.1577692	0.2510579	0.3399215	0.08886357
0.006267	0.03714	14.30104	22.02958	0.7670053	0.8226277	0.7317159	-0.09091184
0.001004	0.00275	25.60785	29.982	0.4787747	0.5746685	0.4568565	-0.1178121
0.012219	0.00945	20.24382	19.12955	0.8262435	0.7581912	0.823643	0.06545181
0.000276	0.00044	33.55657	35.59227	0.1387242	0.0837641	0.1382903	0.0545262
0.044265	0.03604	14.43265	13.53944	0.7594492	0.6895237	0.6086561	-0.08086763
0.015223	0.03335	14.7692	18.17494	0.5611314	0.6688423	0.5400465	-0.1287958
0.0004	0.01349	18.69891	33.98405	0.5965703	0.6813173	0.5336199	-0.1476974
0.036113	0.00065	31.86462	14.42337	0.7409643	0.5417382	0.6173964	0.07565815
0.037869	0.00556	22.55127	14.21718	0.7131941	0.5845685	0.4958262	-0.0887423
0.037327	0.04209	13.7583	14.27976	0.8345114	0.7662699	0.6929473	-0.07332261
0.012904	0.01696	17.70653	18.89268	0.6787971	0.7734481	0.6722972	-0.1011509
0.044686	0.00054	32.63622	13.49829	0.9126647	0.7209144	0.7909522	0.0700378
0.034109	0.00947	20.23779	14.67131	0.8594746	0.7912589	0.84284	0.05158114
0.044895	0.00436	23.60582	13.47804	0.1824155	0.5784313	0.7470861	0.1686548
0.001903	0.00052	32.79866	27.20449	0.3103497	0.1605291	0.2836452	0.1231161
0.040697	0.04651	13.32448	13.90442	0.16635	0.1136193	0.1674432	0.05382387
0.037212	0.00156	28.06677	14.29319	0.7887438	0.6508759	0.7130846	0.06220864
0.001133	0.00159	27.97507	29.45733	0.8323363	0.9191194	0.8330772	-0.08604214
0.000191	0.00046	33.39389	37.19333	0.233516	0.0943824	0.2129377	0.1185553
0.008863	0.00012	39.37868	20.52407	0.1520339	0.2838672	0.346561	0.06269383
0.001991	0.00262	25.82416	27.00991	0.5576084	0.7576626	0.5886981	-0.1689645
0.001724	0.00526	22.78941	27.63571	0.0463992	0.1355647	0.2603238	0.1247591
0.027558	0.00961	20.17281	15.59752	0.7754705	0.6783311	0.750334	0.07200286
0.044729	0.04543	13.42645	13.49407	0.6333095	0.7284796	0.6323888	-0.09609087
0.00249	0.01306	18.84132	26.03848	0.6203152	0.6859435	0.591339	-0.09460454
0.003506	0.00249	26.04171	24.55173	0.4613357	0.6395442	0.4852295	-0.1543148
0.000926	0.00338	24.70754	30.33462	0.2145056	0.1186177	0.2234682	0.1048505
0.01082	0.00015	38.3257	19.65756	0.8412309	0.7706519	0.7131436	-0.05750836
0.005843	0.00332	24.79161	22.33346	0.0674364	0.2561791	0.3810661	0.124887
0.007786	1.24E-05	49.06505	21.08699	0.2963927	0.5974075	0.699681	0.1022735
0.047687	0.02398	16.20106	13.21597	0.9087375	0.7431591	0.6211135	-0.1220456
0.042392	6.31E-05	42.00011	13.72717	0.8523558	0.6811373	0.7473351	0.0661978
0.046356	0.03344	14.75677	13.33895	0.5055214	0.2817824	0.4779877	0.1962052
0.001065	0.00422	23.74239	29.72452	0.8859351	0.8291028	0.7549975	-0.07410531
5.78E-05	1.49E-05	48.25731	42.38335	0.9081187	0.8196051	0.8773797	0.05777463
0.004284	0.00469	23.28824	23.68168	0.5926721	0.6855382	0.6028476	-0.08269066
0.030815	0.02097	16.78489	15.11232	0.7471338	0.832644	0.7601129	-0.07253113
0.039768	0.03235	14.90119	14.00467	0.8093647	0.8762125	0.8159738	-0.06023864
0.001365	8.12E-07	60.90187	28.64902	0.7373231	0.5998142	0.6651904	0.06537616
0.000855	5.25E-05	42.79437	30.67784	0.7719828	0.6441849	0.7258886	0.08170372
0.010756	0.00251	25.99551	19.68351	0.8031676	0.6719514	0.766852	0.09490056
0.04768	2.43E-06	56.14733	13.21667	0.3597737	0.7240039	0.7863399	0.06233612
0.002692	0.01531	18.15009	25.6986	0.8557464	0.9070174	0.8376548	-0.06936256
0.02908	0.04905	13.09318	15.364	0.7078946	0.784434	0.6980355	-0.0863985
7.42E-05	1.11E-05	49.54505	41.29723	0.8062013	0.6976037	0.6113631	-0.08624069
0.010853	0.00183	27.37261	19.64455	0.8961191	0.7720495	0.6659641	-0.1060854

1.34E-06	2.43E-05	46.14825	58.71341	0.6777215	0.7647552	0.6436518	-0.1211035
0.003174	0.00134	28.73869	24.98338	0.7794364	0.672335	0.7617466	0.08941162
0.038044	0.0199	17.0123	14.19709	0.8969681	0.8141154	0.8769839	0.06286855
0.001593	0.00736	21.33357	27.9781	0.7274184	0.7959267	0.7072729	-0.08865378
0.007259	0.00022	36.66687	21.39116	0.8542855	0.6112442	0.6987394	0.08749526
0.024308	0.00031	35.10028	16.14252	0.8470252	0.6528285	0.5726842	-0.08014428
3.55E-05	5.14E-06	52.89217	44.50193	0.1825223	0.0960988	0.160678	0.06457923
2.28E-06	1.87E-06	57.2918	56.42889	0.2643402	0.1248446	0.2528276	0.1279829
0.02556	0.041	13.8718	15.92447	0.7632399	0.5721448	0.7951765	0.2230317
0.004649	0.00645	21.90138	23.32641	0.8128214	0.8981221	0.8228439	-0.07527815
0.021925	0.00705	21.51552	16.59064	0.2043214	0.123511	0.1815349	0.05802393
0.036769	0.00389	24.10181	14.34513	0.0874223	0.1921256	0.1312762	-0.06084948
0.021693	0.00436	23.60548	16.63671	0.7440237	0.6472928	0.5340895	-0.1132033
0.006043	1.72E-06	57.63953	22.18723	0.0928063	0.5937691	0.6493679	0.05559879
8.37E-06	2.45E-06	56.11698	50.77497	0.1512185	0.0782842	0.1474367	0.0691525
2.25E-05	4.01E-06	53.96918	46.47056	0.3840962	0.2245104	0.3479936	0.1234832
0.002997	0.00097	30.12826	25.23354	0.795855	0.742126	0.7937064	0.05158028
0.003158	0.00311	25.0782	25.00532	0.1502667	0.0875027	0.1494837	0.06198101
0.009039	0.02052	16.87778	20.43896	0.1511873	0.2114716	0.1423849	-0.06908668
0.000544	0.00386	24.13817	32.64428	0.5268732	0.6856036	0.6011443	-0.08445932
0.016813	0.01763	17.53856	17.74357	0.8834452	0.7637917	0.8800351	0.1162434
0.020716	0.0091	20.41124	16.83701	0.2440865	0.1633487	0.2270411	0.06369237
0.011326	0.00733	21.3496	19.45933	0.8759513	0.8151262	0.8696355	0.05450932
0.01352	0.00639	21.9424	18.69014	0.3429638	0.2373499	0.3375458	0.100196
0.005417	0.00244	26.13494	22.66238	0.6122324	0.7014703	0.6227751	-0.07869525
0.025577	0.00537	22.69882	15.92155	0.0628071	0.2323922	0.3718653	0.1394731
0.026343	0.00188	27.26747	15.79339	0.8369801	0.6236696	0.5061265	-0.1175432
0.046398	0.00362	24.4085	13.33498	0.8482518	0.6189185	0.7376407	0.1187222
0.01716	0.02882	15.40327	17.65488	0.5513967	0.6625254	0.5388018	-0.1237236
0.00041	0.00057	32.44398	33.86995	0.6015816	0.7135502	0.6069176	-0.1066327
0.023504	0.00316	25.00185	16.28858	0.8695634	0.4944642	0.6881239	0.1936596
0.038272	0.04801	13.18644	14.17115	0.7188867	0.611325	0.5175099	-0.09381505
0.026832	0.00356	24.4902	15.71347	0.1810874	0.116947	0.1781324	0.06118541
0.03969	0.02262	16.45468	14.01315	0.0797444	0.12989	0.2366268	0.1067369
0.026809	0.01735	17.60603	15.71721	0.8867319	0.8254381	0.8764161	0.05097802
0.001437	0.01901	17.21115	28.42476	0.8017645	0.8946526	0.7564023	-0.1382503
3.27E-05	1.92E-06	57.15785	44.84854	0.1958907	0.100811	0.1657696	0.06495855
0.018437	0.02807	15.5177	17.343	0.8040695	0.7490382	0.8107452	0.06170709
0.023104	9.58E-06	50.18813	16.3632	0.0930884	0.4130042	0.497567	0.08456274
0.009177	0.00374	24.27453	20.37299	0.5556253	0.6359761	0.5624321	-0.07354405
0.048989	0.00012	39.32262	13.09903	0.4156204	0.6369231	0.5775231	-0.05940005
0.009014	0.02643	15.77918	20.45107	0.6845306	0.757549	0.6592445	-0.09830447
0.038461	0.00019	37.29469	14.14976	0.0892213	0.2062358	0.2978193	0.09158358
0.002924	0.0197	17.05561	25.34025	0.7262249	0.8086898	0.6565069	-0.1521829
0.036431	0.03833	14.16406	14.38524	0.7959733	0.7227302	0.7994342	0.07670407
0.002697	0.00353	24.52509	25.69101	0.7177388	0.8520761	0.7132703	-0.1388058
0.009615	0.02602	15.84733	20.17069	0.0577491	0.1656976	0.2926729	0.1269753
0.038588	0.02223	16.5302	14.13548	0.8976107	0.7318591	0.5993863	-0.1324728
0.039682	0.03101	15.08488	14.01403	0.3230492	0.3767328	0.4374584	0.0607256
0.024544	0.01044	19.81115	16.10054	0.1361348	0.0676099	0.1237497	0.05613987
0.002999	0.00021	36.83057	25.2304	0.8081251	0.6532393	0.7457855	0.09254622
0.026606	0.03732	14.28013	15.75028	0.1092811	0.1994723	0.0996228	-0.09984955
0.00041	0.00097	30.14198	33.87221	0.6624416	0.4171441	0.4920937	0.0749496
0.017114	7.77E-07	61.09622	17.66656	0.2241665	0.7812576	0.8461598	0.06490215

0.003995	0.01535	18.14014	23.98458	0.7605448	0.8471696	0.7288278	-0.1183418
0.013311	0.00591	22.28751	18.75804	0.8923337	0.8085852	0.6832387	-0.1253464
0.023364	0.00014	38.64852	16.31446	0.2489093	0.7096549	0.8587835	0.1491287
0.010312	0.00925	20.3407	19.86677	0.5965799	0.5217133	0.5948359	0.07312261
0.000141	2.96E-05	45.29136	38.52213	0.1512801	0.0876853	0.1439125	0.05622721
0.016593	0.01003	19.98657	17.80062	0.8210828	0.6269784	0.4850337	-0.1419447
0.000768	5.03E-05	42.98775	31.14676	0.7723821	0.8309973	0.7551137	-0.07588363
0.042564	0.01438	18.42118	13.70956	0.6496257	0.4912316	0.3800965	-0.1111135
0.011847	0.00275	25.6071	19.26402	0.2080582	0.1029001	0.1817736	0.07887353
0.004043	0.00012	39.08403	23.93312	0.3203291	0.2287275	0.2958553	0.06712777
0.036951	0.04365	13.59999	14.3238	0.8118154	0.8679625	0.8103052	-0.0576574
4.49E-06	5.93E-06	52.26684	53.48029	0.6768637	0.7978457	0.665399	-0.1324467
0.010547	0.0088	20.55371	19.76885	0.650331	0.7143786	0.6454135	-0.06896514
0.005412	0.00575	22.40423	22.66676	0.745483	0.628915	0.7666854	0.1377704
0.003691	0.00359	24.44774	24.32876	0.2701252	0.1667327	0.269371	0.1026383
0.046879	0.0003	35.26818	13.29026	0.7666621	0.4928964	0.5937968	0.1009004
0.02936	0.00157	28.05243	15.3225	0.3642264	0.1524254	0.2357929	0.08336755
0.028007	0.00446	23.50448	15.52728	0.8069072	0.7011165	0.7683949	0.06727841
0.030717	1.23E-05	49.09044	15.12626	0.4093615	0.7215985	0.7836446	0.06204604
0.020444	0.03623	14.40903	16.89436	0.0615986	0.1223249	0.2302642	0.1079393
0.004327	0.00288	25.40976	23.63764	0.203949	0.1241539	0.188737	0.06458312
0.002644	0.02102	16.77312	25.77735	0.742296	0.7994499	0.6953421	-0.1041078
0.001718	0.00206	26.87013	27.64891	0.3404878	0.1861797	0.3406931	0.1545134
0.015843	0.00217	26.62824	18.00169	0.5231882	0.7609837	0.7093042	-0.05167955
0.0224	0.01706	17.67975	16.49749	0.5767209	0.4976046	0.572481	0.07487638
0.000672	0.00428	23.68506	31.7293	0.536886	0.6242421	0.5136343	-0.1106078
5.29E-05	8.09E-05	40.91999	42.76527	0.5155874	0.5765461	0.5135705	-0.06297548
0.006686	0.00624	22.04964	21.74808	0.4017351	0.3221562	0.3974231	0.07526692
0.000434	0.00019	37.28746	33.62592	0.6393129	0.7130931	0.6488722	-0.06422088
0.011688	0.00611	22.13971	19.3226	0.7798395	0.8932397	0.8108625	-0.08237724
0.022429	0.00042	33.79863	16.49183	0.8373755	0.7355307	0.6482342	-0.08729653
0.014486	0.02166	16.64366	18.39049	0.8996921	0.8462229	0.902211	0.05598808
6.07E-05	3.66E-06	54.36099	42.1656	0.2009071	0.0501346	0.1668064	0.1166717
0.035451	0.00557	22.54378	14.50373	0.7832615	0.4986086	0.6410836	0.1424751
0.018009	7.12E-05	41.47286	17.445	0.8094711	0.6114956	0.6913611	0.07986557
0.048597	0.00157	28.04793	13.13393	0.8949131	0.6934072	0.7584834	0.06507621
0.012456	0.00435	23.61453	19.04631	0.39828	0.2672589	0.3703497	0.1030908
0.049926	6.28E-05	42.01733	13.01672	0.855882	0.5811767	0.6625052	0.08132852
0.018619	0.02545	15.94273	17.30037	0.8567387	0.761386	0.8633187	0.1019327
0.033831	0.01138	19.43844	14.70681	0.6354097	0.749332	0.6587246	-0.09060737
0.008829	0.00013	38.92354	20.54102	0.2258418	0.3274016	0.2573426	-0.07005901
0.006451	0.02588	15.8709	21.9036	0.9206988	0.7913395	0.6080654	-0.183274
0.000865	0.00063	31.97308	30.62974	0.5928206	0.6993396	0.5845423	-0.1147973
0.00024	0.00023	36.46927	36.1968	0.3606047	0.5259817	0.3270408	-0.1989409
0.036164	5.30E-06	52.75387	14.41728	0.6075585	0.909783	0.8443172	-0.06546579
0.014694	0.02213	16.55033	18.32857	0.8232955	0.7688477	0.8298709	0.06102316
0.02012	0.00951	20.21729	16.96377	0.8706392	0.7777654	0.7153312	-0.06243422
0.00148	0.00054	32.64199	28.29621	0.7538101	0.8431839	0.75996	-0.08322386
0.000367	0.00196	27.07001	34.35883	0.5532698	0.6358902	0.537832	-0.09805826
1.56E-05	4.14E-06	53.82597	48.06317	0.611532	0.8233058	0.6437659	-0.17954
0.000576	9.92E-05	40.03436	32.39741	0.6031541	0.6859497	0.6341229	-0.05182684
0.003229	0.00235	26.28929	24.90996	0.8378647	0.9035174	0.83103	-0.07248739
0.007264	0.00284	25.47151	21.38799	0.8690962	0.8102357	0.8615261	0.05129039
0.04655	0.03178	14.97808	13.32077	0.7770108	0.8364785	0.785054	-0.05142457

0.036166	0.03912	14.07602	14.41704	0.2577159	0.326999	0.263378	-0.06362102
0.049166	0.00155	28.08633	13.08334	0.2691601	0.4470869	0.5268875	0.07980061
0.009741	0.00083	30.80499	20.11385	0.8747581	0.7184603	0.5758908	-0.1425695
0.01403	0.00746	21.2722	18.52928	0.7926838	0.6623299	0.7708705	0.1085406
0.040879	0.03095	15.09277	13.88501	0.2647163	0.1868754	0.2541152	0.06723978
0.006186	0.0054	22.67745	22.08565	0.8308439	0.8948943	0.8357196	-0.05917468
0.040483	8.45E-05	40.73259	13.92725	0.519467	0.3240697	0.4163155	0.09224578
0.01279	0.04678	13.29949	18.93132	0.6224509	0.711328	0.5804773	-0.1308507
0.000242	0.00031	35.10438	36.15375	0.1591005	0.0580077	0.1363945	0.07838684
0.046982	0.00442	23.54622	13.28073	0.8523431	0.672254	0.7616454	0.08939143
0.002781	1.14E-05	49.42478	25.55874	0.1144538	0.3615533	0.5243953	0.1628421
0.000922	0.00155	28.09748	30.35337	0.7059155	0.5997317	0.4814178	-0.118314
0.043791	0.00676	21.69949	13.58619	0.5025356	0.6317991	0.5514475	-0.08035161
0.041207	0.00083	30.79642	13.8503	0.1373469	0.359656	0.4379779	0.07832191
0.007708	0.00417	23.80112	21.1305	0.7336636	0.5167577	0.3560117	-0.1607459
0.024504	0.03145	15.02433	16.1076	0.8786314	0.8028669	0.7130175	-0.0898494
0.032589	0.00685	21.64433	14.86922	0.0728056	0.1745607	0.1064092	-0.06815146
0.005445	0.02716	15.66004	22.64021	0.4979315	0.5618368	0.4739335	-0.08790328
0.021128	0.01125	19.48722	16.75133	0.2457298	0.160317	0.238022	0.07770506
0.031752	0.01809	17.42598	14.98227	0.2185353	0.4294875	0.5577815	0.128294
0.00017	1.42E-05	48.46952	37.68816	0.2376807	0.1310497	0.2296119	0.09856216
0.030224	0.01	19.9996	15.19655	0.7523649	0.6555913	0.578597	-0.07699432
0.007844	0.00343	24.64445	21.05449	0.3567661	0.2201529	0.3194826	0.09932964
0.00194	1.32E-05	48.77869	27.12213	0.8582244	0.6945868	0.7731328	0.07854602
0.024496	0.01575	18.02622	16.10902	0.764259	0.8414375	0.7760419	-0.06539562
0.015299	0.05009	13.00206	18.15326	0.1022854	0.1853986	0.3040945	0.1186959
0.008384	0.00199	27.00682	20.76525	0.9093745	0.8593117	0.8064544	-0.05285726
0.02272	0.00133	28.75318	16.43584	0.8825387	0.7437166	0.6394065	-0.1043101
0.009004	0.0215	16.67544	20.45587	0.0781891	0.2245566	0.3885839	0.1640273
0.04932	0.01461	18.35365	13.06975	0.8302063	0.6753549	0.7718354	0.09648044
0.012817	0.00519	22.84448	18.92212	0.5798535	0.6594859	0.5995489	-0.05993693
0.019739	0.02002	16.98441	17.04666	0.8655142	0.9181162	0.8298907	-0.08822547
0.047017	0.01841	17.35039	13.27745	0.8753074	0.681936	0.5525377	-0.1293982
0.03657	0.01658	17.80313	14.36878	0.8646683	0.7681095	0.6946567	-0.07345279
0.025015	0.02407	16.18464	16.01804	0.9212638	0.8056611	0.6814908	-0.1241703
0.009738	0.00105	29.80307	20.11549	0.7995811	0.6173511	0.7320439	0.1146928
0.015946	0.00796	20.99153	17.9736	0.6114252	0.7167611	0.6281743	-0.08858674
0.027744	0.00182	27.40798	15.56828	0.1051785	0.2038101	0.2886759	0.08486581
0.002439	0.00398	24.00061	26.12701	0.6650144	0.8009604	0.6665946	-0.1343659
2.66E-06	5.75E-06	52.40575	55.75738	0.1630749	0.0832355	0.164161	0.08092547
0.001991	0.00118	29.29106	27.0092	0.9432968	0.8709179	0.7368956	-0.1340223
0.0005	0.0013	28.85285	33.01161	0.7171374	0.8117241	0.7096906	-0.1020336
1.07E-06	7.57E-07	61.20852	59.72011	0.2253835	0.0817872	0.2015443	0.1197571
0.038163	0.00186	27.29703	14.18356	0.8121209	0.6673171	0.7381839	0.07086675
0.038895	0.03647	14.38091	14.10104	0.0984517	0.1589229	0.0990438	-0.05987914
0.00272	0.00045	33.50627	25.65389	0.7166537	0.8354756	0.7486092	-0.08686633
0.00217	0.00111	29.53849	26.63535	0.5532449	0.6399643	0.5650643	-0.07490003
0.048745	0.00404	23.93668	13.12067	0.1093766	0.4061553	0.5201252	0.1139699
0.011816	0.01011	19.95147	19.27522	0.4410682	0.2767563	0.4210575	0.1443011
1.10E-05	1.82E-06	57.38989	49.57671	0.5381643	0.7016947	0.5306147	-0.17108
0.000929	0.00155	28.08979	30.31848	0.8234408	0.8989046	0.8188177	-0.08008682
0.021935	0.00419	23.77578	16.58867	0.8962975	0.783608	0.8500406	0.06643261
0.040316	0.00039	34.09014	13.9452	0.1847491	0.3870279	0.2935349	-0.09349299
0.018673	0.01073	19.6959	17.28775	0.7330797	0.6513941	0.5065476	-0.1448465

0.000682	0.0018	27.4417	31.66104	0.7184127	0.7915372	0.7052776	-0.0862597
0.044522	0.01031	19.86797	13.51424	0.8748373	0.79092	0.6682201	-0.1226999
0.016662	0.00348	24.57931	17.78284	0.8791051	0.7615762	0.8385877	0.07701149
0.001074	0.00082	30.86635	29.68853	0.1579917	0.086448	0.1431873	0.05673925
0.019911	0.0005	33.05117	17.00899	0.888668	0.6488708	0.5691703	-0.07970048
0.04488	0.00167	27.76105	13.4795	0.7252421	0.4391231	0.3758562	-0.06326689
0.02114	0.048	13.1877	16.74885	0.7639048	0.6928214	0.6053426	-0.08747883
0.009859	0.00402	23.96104	20.06165	0.6918333	0.8486292	0.7406611	-0.107968
0.02221	0.00965	20.15318	16.53451	0.7710081	0.6902647	0.7538935	0.06362881
0.013137	0.01342	18.72293	18.81493	0.7935259	0.8785744	0.7977573	-0.08081707
0.028027	3.62E-07	64.41515	15.52426	0.2256112	0.5113059	0.5724889	0.06118295
0.027438	0.01615	17.91716	15.61642	0.8840967	0.7900805	0.8658596	0.07577914
0.003087	0.00691	21.6055	25.10527	0.8923079	0.7333103	0.5908233	-0.142487
0.030166	0.01316	18.80634	15.20486	0.9245713	0.8286194	0.8953511	0.06673161
0.00751	0.04558	13.41249	21.24375	0.0834036	0.1669177	0.3064397	0.1395219
0.023419	5.59E-07	62.5236	16.30423	0.2121349	0.4725195	0.5641543	0.09163484
0.003063	4.68E-06	53.30035	25.13782	0.165863	0.0710321	0.1429716	0.07193955
0.021336	0.0342	14.65921	16.70895	0.9033923	0.8496913	0.9109133	0.061222
0.024902	0.00827	20.82729	16.03767	0.862255	0.7842911	0.8411548	0.05686358
9.52E-07	6.30E-08	72.00739	60.21283	0.7109243	0.7975426	0.7081214	-0.08942128
0.004463	0.00076	31.17568	23.50392	0.1975628	0.1055055	0.1590079	0.05350239
0.023414	0.00177	27.52328	16.30524	0.8417575	0.7777514	0.7178971	-0.05985436
0.024375	0.00909	20.41271	16.13052	0.8785713	0.7793941	0.6930192	-0.08637498
0.01167	0.03788	14.21632	19.32941	0.6033474	0.5102445	0.4501761	-0.06006835
0.04232	0.00565	22.47876	13.7346	0.8790389	0.702402	0.795337	0.09293508
0.015257	5.56E-05	42.54829	18.16544	0.4743791	0.7291612	0.8181433	0.08898211
0.030321	0.00086	30.67178	15.18257	0.5620691	0.7020252	0.6362722	-0.06575293
0.005877	0.00639	21.94695	22.30835	0.1049089	0.048244	0.1028055	0.05456153
0.002988	0.00146	28.35382	25.24553	0.168853	0.1099501	0.1611845	0.05123436
0.026004	0.00345	24.62788	15.84963	0.5687239	0.7056271	0.7648073	0.05918013
0.005287	3.11E-07	65.07079	22.76796	0.1471895	0.2790658	0.369941	0.09087514
0.046699	0.00691	21.60468	13.30697	0.1361233	0.2437529	0.1783984	-0.06535448
0.031683	0.00174	27.58404	14.9918	0.7676182	0.5574969	0.4550672	-0.1024297
0.000241	1.46E-05	48.35995	36.18175	0.6513505	0.7885255	0.6660957	-0.1224298
0.00504	3.66E-07	64.36841	22.97609	0.1709023	0.6834199	0.7666933	0.08327344
0.002484	0.00314	25.03388	26.0483	0.6014259	0.7037615	0.5891859	-0.1145756
0.048726	0.0082	20.86368	13.12237	0.0464001	0.1115208	0.1852244	0.07370357
0.012768	0.00207	26.84589	18.93877	0.1144239	0.2919506	0.4119026	0.119952
0.003222	0.00506	22.95497	24.91829	0.7411171	0.8788022	0.7431858	-0.1356164
0.031359	0.0235	16.28979	15.03641	0.3847384	0.2729405	0.3738092	0.1008688
0.001097	0.00148	28.30268	29.59705	0.6014503	0.7229493	0.5744042	-0.1485451
0.021779	0.0092	20.36134	16.61953	0.8757094	0.7563161	0.8506739	0.09435785
0.019147	0.04407	13.55853	17.17904	0.7274694	0.8087325	0.7041556	-0.1045769
1.48E-07	2.58E-06	55.88939	68.29067	0.3860954	0.1474525	0.3817953	0.2343428
0.002672	0.00165	27.81462	25.73131	0.1714944	0.1146762	0.1659245	0.05124833
0.006167	0.02033	16.91929	22.09905	0.5657191	0.6275131	0.5391398	-0.08837328
0.036532	0.00212	26.74566	14.37322	0.8559492	0.623125	0.5088919	-0.1142331
0.048223	0.02018	16.95063	13.16747	0.7913333	0.8618151	0.8113197	-0.05049538
0.036718	0.00728	21.38001	14.35121	0.9004293	0.7809771	0.8516107	0.07063362
0.003783	0.00893	20.48919	24.22153	0.7424812	0.8370095	0.7243074	-0.1127022
0.028666	0.01985	17.02188	15.42628	0.1977517	0.1217642	0.1913333	0.06956907
0.014606	0.0184	17.35275	18.35484	0.868681	0.935149	0.8605147	-0.07463422
0.015654	0.00903	20.44457	18.05385	0.32672	0.1903924	0.3070863	0.1166939
0.036257	0.00575	22.40179	14.40613	0.8950274	0.7514672	0.8461409	0.0946737

0.000771	0.00106	29.75194	31.1286	0.3507687	0.20752	0.3559673	0.1484473
0.000243	0.00365	24.37118	36.13626	0.8104616	0.8953257	0.7945094	-0.1008163
0.012289	0.00796	20.98921	19.10466	0.7827288	0.8776098	0.7979326	-0.07967719
0.000397	0.00031	35.09723	34.01285	0.1964692	0.0767057	0.1982339	0.1215283
0.008475	0.00142	28.48187	20.71871	0.870824	0.941801	0.8827599	-0.05904099
0.019313	0.01349	18.69975	17.14148	0.23671	0.1595611	0.2286975	0.06913642
0.001482	0.00314	25.03456	28.29041	0.1505052	0.0767663	0.1303233	0.05355701
0.021117	0.02544	15.94437	16.75364	0.8795629	0.7751635	0.6637819	-0.1113815
0.003773	0.00251	26.01019	24.23261	0.695526	0.8128569	0.6983317	-0.1145253
0.028067	0.00127	28.94533	15.51804	0.8471431	0.6376007	0.5255855	-0.1120152
0.013466	0.00066	31.83087	18.70761	0.8572741	0.7585496	0.6804849	-0.0780647
0.034452	0.01215	19.15441	14.62791	0.1351457	0.2624601	0.352385	0.08992498
0.003729	0.01525	18.16833	24.2839	0.7332373	0.7955214	0.7118303	-0.08369111
0.010183	0.02505	16.01217	19.92108	0.7316323	0.8047231	0.6988642	-0.1058589
0.029896	0.00167	27.77274	15.24389	0.0540162	0.2158905	0.3296781	0.1137876
0.04604	0.00487	23.12158	13.36864	0.8028373	0.7427256	0.6760407	-0.06668484
0.006838	4.99E-05	43.02205	21.65102	0.8269272	0.7306154	0.6567439	-0.07387158
0.018959	0.0272	15.65463	17.22187	0.8874432	0.8059679	0.7090981	-0.09686982
0.001379	0.00614	22.11705	28.60487	0.312601	0.2208885	0.3303498	0.1094613
0.013374	0.00553	22.56945	18.7374	0.7131654	0.8165189	0.7298328	-0.08668613
0.032596	0.02059	16.86257	14.86831	0.7739754	0.4716606	0.7222471	0.2505865
0.000978	0.00306	25.14411	30.09455	0.525346	0.5805318	0.5113913	-0.06914043
0.01743	0.00211	26.76014	17.58707	0.8693792	0.7939131	0.7074446	-0.08646712
0.001356	0.00117	29.31506	28.67586	0.7832573	0.6463466	0.7826135	0.1362668
0.036068	0.01498	18.24606	14.42875	0.8410094	0.9121044	0.8554959	-0.05660848
0.008663	0.00397	24.00896	20.62346	0.8966972	0.8284955	0.8889611	0.06046559
0.02874	0.00318	24.97481	15.41514	0.8686572	0.7447301	0.8242466	0.07951646
0.045296	0.01636	17.86134	13.43939	0.3633545	0.4214279	0.4854759	0.06404797
0.017475	0.00071	31.47762	17.57578	0.7703455	0.5162601	0.3869531	-0.129307
0.001873	0.00021	36.78317	27.27478	0.402204	0.6201352	0.534692	-0.08544323
0.002141	0.02243	16.49143	26.69417	0.6451308	0.7391078	0.5917839	-0.1473239
0.036609	0.00728	21.37726	14.36414	0.418256	0.3407614	0.3921034	0.05134203
0.040831	0.00513	22.89922	13.89011	0.0716574	0.3297818	0.1992733	-0.1305085
0.014434	0.00206	26.85984	18.40625	0.5958558	0.6631209	0.6070525	-0.05606832
2.28E-05	0.00025	36.05315	46.41309	0.5979397	0.7799855	0.6092477	-0.1707378
0.030553	0.01864	17.29529	15.14948	0.8622322	0.7044947	0.8424374	0.1379427
0.000989	0.00147	28.31571	30.04957	0.1936471	0.1179967	0.1932198	0.07522313
0.010902	0.00576	22.39227	19.62501	0.06904	0.2676778	0.4461305	0.1784527
0.01035	0.03251	14.88044	19.85076	0.1835743	0.1193168	0.2007442	0.08142737
4.86E-05	4.86E-05	43.13577	43.13349	0.8181045	0.9294104	0.8372712	-0.09213927
0.032544	0.01112	19.5395	14.87535	0.8379698	0.7258696	0.8028723	0.07700268
0.007376	0.00098	30.09474	21.32167	0.8738511	0.9740096	0.9231249	-0.05088467
0.004759	0.00736	21.33029	23.22524	0.0561282	0.1757389	0.2800655	0.1043266
0.032588	0.00068	31.68362	14.86946	0.7349826	0.5040604	0.4009353	-0.1031252
0.039055	0.00787	21.03963	14.08326	0.7612191	0.584201	0.6991068	0.1149058
0.028907	0.00558	22.53183	15.3899	0.7972028	0.6525205	0.5546007	-0.09791972
0.010536	0.0058	22.36942	19.7734	0.4110043	0.2948369	0.401547	0.1067101
0.006699	0.00012	39.25079	21.73996	0.7788068	0.6914884	0.7473181	0.05582971
0.044368	0.00364	24.38638	13.52932	0.1070514	0.2126322	0.2959116	0.08327945
0.05002	0.02509	16.00486	13.00859	0.8596886	0.7692289	0.8404132	0.07118425
0.001218	5.37E-05	42.69844	29.14188	0.8845527	0.8030374	0.708515	-0.09452239
0.019803	0.00421	23.75988	17.03277	0.555509	0.6465279	0.5850419	-0.06148602
0.043088	0.0034	24.69027	13.65648	0.4948285	0.3764476	0.4307489	0.05430123
0.017482	0.02212	16.55301	17.57416	0.824725	0.7167108	0.6050227	-0.1116881

0.031813	0.00279	25.53876	14.97394	0.8961961	0.5318244	0.6856424	0.153818
0.034023	1.44E-06	58.40538	14.6823	0.4668115	0.7569695	0.6778081	-0.07916133
0.00773	0.00769	21.14117	21.11827	0.8099726	0.8729346	0.8106616	-0.06227294
0.047953	0.02267	16.44627	13.19183	0.2002888	0.3166264	0.427803	0.1111766
0.014611	0.00256	25.91137	18.35321	0.9035068	0.7637776	0.6689953	-0.09478231
8.59E-05	4.62E-06	53.35218	40.66116	0.2259784	0.1074924	0.1943814	0.08688902
2.42E-05	0.00045	33.50724	46.16587	0.3219064	0.1516757	0.3538943	0.2022186
0.001993	0.03222	14.91882	27.00418	0.420744	0.3621646	0.3077318	-0.05443281
0.002128	0.00081	30.94035	26.71988	0.9303311	0.6262981	0.4471881	-0.17911
0.005864	2.81E-05	45.51716	22.31835	0.7787411	0.6438954	0.7121279	0.06823242
0.02485	0.01268	18.97017	16.04667	0.093163	0.2500311	0.3697694	0.1197383
0.026927	0.03356	14.74213	15.69813	0.9175808	0.8285445	0.6751866	-0.1533579
0.000233	0.00149	28.26779	36.33338	0.565959	0.6391711	0.5538676	-0.08530346
0.001172	0.00253	25.97166	29.31008	0.2150532	0.1472919	0.2335497	0.08625782
0.010443	0.00655	21.84086	19.81181	0.9014117	0.7510615	0.6440335	-0.107028
0.019853	0.00084	30.73857	17.02177	0.8160693	0.7065876	0.6435125	-0.06307501
0.023787	0.00051	32.88444	16.23652	0.9025738	0.7905917	0.8431047	0.05251299
0.020567	0.00409	23.88347	16.86836	0.8629776	0.7889689	0.8408003	0.05183139
0.026842	0.00074	31.33337	15.71178	0.1763784	0.3967882	0.5012876	0.1044994
0.022784	0.0159	17.98583	16.42375	0.1203487	0.3782257	0.6102074	0.2319817
0.003263	0.01188	19.2533	24.86405	0.5782372	0.6792935	0.55607	-0.1232235
0.000445	0.00735	21.34007	33.51421	0.1216245	0.0592881	0.1115755	0.05228746
0.000551	0.00235	26.28511	32.5909	0.8205172	0.8800637	0.8226878	-0.05737594
0.022866	0.00164	27.84076	16.40805	0.8572332	0.7648898	0.8201262	0.0552363
0.02138	0.01904	17.20406	16.69987	0.6673563	0.5395856	0.4648731	-0.07471249
0.000914	0.0018	27.44285	30.39231	0.7304133	0.7875191	0.7225345	-0.06498456
0.032618	0.00264	25.78994	14.86541	0.0945916	0.4106597	0.5497399	0.1390802
0.041148	0.00664	21.77554	13.85656	0.2450771	0.4392087	0.5397745	0.1005658
0.002463	0.00045	33.43223	26.08535	0.7987832	0.8803711	0.818263	-0.06210806
0.043214	0.00322	24.92518	13.64378	0.8188413	0.7151236	0.7690477	0.05392416
0.026561	0.04626	13.34775	15.75761	0.7865292	0.864465	0.7703038	-0.09416113
0.013344	0.02088	16.80318	18.7472	0.6184615	0.6742874	0.6011034	-0.07318396
0.000613	2.95E-08	75.29761	32.12351	0.1803144	0.4975955	0.4040526	-0.09354288
0.016947	0.01747	17.57726	17.70912	0.6625687	0.7528262	0.6614707	-0.09135544
0.004851	0.00571	22.43394	23.14157	0.5072381	0.6734783	0.5017875	-0.1716908
0.029418	0.03059	15.14479	15.31387	0.1837938	0.1210076	0.1853987	0.06439104
0.00416	0.00158	28.02276	23.80949	0.4935691	0.5732667	0.493766	-0.07950072
0.000545	0.00103	29.87175	32.63688	0.602491	0.7453421	0.5868379	-0.1585041
0.022955	0.01109	19.54974	16.39123	0.1553224	0.0825579	0.1416639	0.05910597
0.000491	0.00237	26.24838	33.09281	0.4320402	0.5074124	0.422484	-0.08492842
0.041828	0.0067	21.74156	13.78536	0.1916604	0.3598281	0.4659418	0.1061137
0.008263	1.98E-07	67.03322	20.82863	0.446302	0.7066956	0.6356129	-0.07108272
0.026214	0.04194	13.77375	15.81468	0.8812472	0.749286	0.5976951	-0.151591
0.033478	0.0258	15.88337	14.75237	0.2126605	0.1593706	0.2095674	0.05019688
0.002711	0.03111	15.07145	25.66824	0.4163847	0.4804665	0.3622802	-0.1181863
0.00582	0.00619	22.08608	22.35044	0.6017735	0.6814711	0.6001973	-0.08127381
0.000782	0.00068	31.69672	31.06733	0.1764626	0.0982752	0.1792684	0.08099321
0.012701	1.06E-06	59.74869	18.96157	0.8895404	0.7784402	0.71782	-0.06062026
0.001749	0.0112	19.50853	27.57319	0.7422478	0.6920819	0.6247762	-0.06730565
0.00703	0.00307	25.12503	21.53024	0.8242129	0.8963454	0.8292184	-0.06712701
0.036574	0.00409	23.88003	14.36826	0.8247161	0.6210054	0.5289851	-0.09202023
0.009448	0.0083	20.80948	20.24642	0.9047297	0.7488605	0.8781832	0.1293227
0.046672	0.00137	28.62794	13.30945	0.243981	0.3698531	0.3014202	-0.06843287
0.002038	0.00046	33.40538	26.90754	0.6760011	0.7946852	0.6883839	-0.1063012



0.008856	0.00167	27.77248	20.52765	0.7968041	0.6487836	0.7347555	0.08597194
0.005824	6.41E-05	41.93101	22.34801	0.206312	0.1031071	0.15655	0.053443
0.020815	0.04123	13.84769	16.81632	0.8337543	0.7472098	0.8220036	0.07479373
0.041722	0.00749	21.2563	13.79634	0.064519	0.2220741	0.1276509	-0.0944232
0.00375	0.00814	20.89115	24.2595	0.7602866	0.8330207	0.7456828	-0.087338
0.032562	0.00603	22.19617	14.87284	0.6972359	0.5734369	0.6552444	0.08180749
0.042549	0.01508	18.21574	13.7111	0.8786485	0.606935	0.4319248	-0.1750102
0.037978	0.01517	18.18961	14.20472	0.8318484	0.7537947	0.8164288	0.06263407
0.000213	0.00012	39.35679	36.72136	0.1638119	0.0972397	0.1517136	0.05447385
0.018272	0.00725	21.39536	17.38216	0.8219191	0.6750797	0.5362693	-0.1388104
0.006874	0.00416	23.80858	21.62819	0.8982221	0.7626971	0.8532293	0.09053229
0.000455	0.00104	29.82716	33.42441	0.4018732	0.2049207	0.3879986	0.1830779
0.002967	0.00239	26.21987	25.27611	0.7365983	0.8457195	0.7605537	-0.08516577
0.01861	0.01903	17.20501	17.30255	0.315364	0.2177578	0.3105934	0.09283561
0.018188	0.01969	17.05685	17.40211	0.642513	0.7199034	0.641001	-0.07890242
0.039887	0.04279	13.68634	13.99165	0.9375245	0.8791621	0.9381008	0.05893871
0.000857	0.00159	27.97975	30.66821	0.8086072	0.9194497	0.8193396	-0.1001102
0.020862	4.33E-05	43.63354	16.80647	0.5798484	0.7836998	0.7289789	-0.05472077
0.006428	0.00158	28.00403	21.91912	0.8194022	0.7414294	0.802051	0.06062161
0.040788	0.00111	29.55242	13.8947	0.3335077	0.6189606	0.7045594	0.08559882
0.015688	0.00248	26.05779	18.04421	0.1445921	0.227928	0.170825	-0.05710298
0.007966	0.0044	23.56507	20.98734	0.905446	0.7994553	0.6639712	-0.1354841
0.007371	0.01233	19.09015	21.32468	0.5151775	0.6323785	0.5129007	-0.1194779
0.012498	6.30E-07	62.00557	19.03159	0.0644144	0.2600615	0.3421954	0.08213393
0.008738	0.03518	14.53739	20.58611	0.1793836	0.1077919	0.2079934	0.1002015
0.002785	0.00791	21.01628	25.55191	0.7619173	0.6814263	0.579944	-0.1014824
0.045756	0.00321	24.93764	13.39555	0.8561264	0.7466311	0.8047393	0.05810815
0.000753	0.00252	25.98077	31.23343	0.7857003	0.853152	0.760061	-0.09309094
0.03613	0.02083	16.81208	14.42126	0.7169713	0.6344165	0.5540548	-0.08036177
0.0334	0.02207	16.56235	14.7626	0.7686451	0.6932643	0.627105	-0.0661593
0.031492	1.27E-06	58.9453	15.01798	0.1836908	0.4650185	0.4014053	-0.06361324
0.003115	0.02752	15.60322	25.06537	0.6658943	0.7169851	0.6334121	-0.08357307
0.006389	0.00104	29.82879	21.94569	0.7662777	0.6945295	0.7449962	0.05046668
8.07E-06	3.82E-05	44.18488	50.92986	0.0672036	0.1241577	0.0543625	-0.06979526
0.028696	0.02738	15.62496	15.42185	0.9141201	0.724385	0.5430588	-0.1813262
0.010749	1.87E-06	57.28581	19.68627	0.865111	0.7147305	0.5983928	-0.1163377
0.00403	0.00353	24.52007	23.94666	0.6604276	0.7145969	0.6575739	-0.05702299
0.023721	0.01931	17.1411	16.24873	0.8809683	0.8155133	0.873966	0.05845273
0.02282	4.87E-05	43.12646	16.41692	0.8378509	0.7338424	0.6727503	-0.06109214
0.041991	0.00014	38.48833	13.7684	0.3926831	0.6801515	0.5932552	-0.08689631
2.17E-05	4.07E-06	53.90641	46.645	0.4527334	0.5809966	0.4767669	-0.1042296
0.045433	0.00172	27.64279	13.42631	0.7923325	0.645146	0.5710541	-0.07409191
0.002218	0.00327	24.86116	26.54017	0.6383989	0.8106544	0.635697	-0.1749574
0.005968	0.00489	23.10965	22.24196	0.3937372	0.5348096	0.4158953	-0.1189142
0.007588	0.00245	26.10033	21.19878	0.8774049	0.7686549	0.8395218	0.07086696
0.002622	3.04E-05	45.17681	25.81418	0.8048756	0.6459715	0.5492907	-0.09668092
0.025834	0.00946	20.2425	15.87813	0.8315315	0.7536216	0.8173062	0.06368458
0.046469	0.02231	16.51541	13.32839	0.3344317	0.4789798	0.3366908	-0.142289
0.021624	0.01322	18.78615	16.65059	0.2993714	0.1893018	0.2775548	0.088253
0.00354	0.00135	28.69756	24.50965	0.2247092	0.1263891	0.2099448	0.08355569
0.020756	0.01307	18.8367	16.82863	0.1344717	0.0710953	0.1241653	0.05307007
0.00781	0.0038	24.202	21.07346	0.7858041	0.6349497	0.5110394	-0.1239104
0.005285	0.00495	23.05136	22.76924	0.6102461	0.688458	0.5979801	-0.09047785
0.046619	0.02408	16.1828	13.31437	0.7247813	0.4978082	0.6703724	0.1725641

0.010168	5.86E-05	42.32201	19.92763	0.489926	0.7058404	0.6179679	-0.0878725
0.036578	0.01188	19.25117	14.36783	0.4607331	0.3094305	0.2013742	-0.1080563
0.041228	0.0029	25.3813	13.84807	0.7318536	0.4645162	0.5835121	0.1189959
0.009714	0.00015	38.23792	20.12623	0.6689014	0.8024537	0.738089	-0.06436467
0.000472	0.00185	27.32811	33.26376	0.5222833	0.5965115	0.5054396	-0.091072
0.002556	0.01085	19.64617	25.92425	0.5967377	0.719455	0.5779004	-0.1415546
3.93E-06	1.65E-07	67.82886	54.05347	0.3645933	0.2109582	0.3228928	0.1119347
0.021497	0.03275	14.84793	16.67616	0.8826545	0.7936086	0.8923008	0.09869216
0.010177	0.00037	34.30061	19.92367	0.8329133	0.6646401	0.749377	0.08473694
0.024627	0.00298	25.25534	16.08585	0.4061069	0.6153516	0.7511284	0.1357768
2.68E-05	2.25E-05	46.47523	45.71926	0.8271567	0.9332526	0.8372529	-0.0959997
0.047712	0.00188	27.25868	13.21372	0.8368698	0.6083943	0.707849	0.09945473
0.000678	0.00355	24.49237	31.68802	0.8052651	0.8813746	0.7926096	-0.08876497
0.022507	0.02905	15.36914	16.4769	0.8079191	0.8613309	0.8019277	-0.05940313
0.014944	0.01697	17.70214	18.25538	0.7524742	0.824497	0.7409749	-0.0835221
0.004605	0.00809	20.92193	23.36731	0.9005517	0.8443515	0.7697991	-0.07455248
0.000123	0.00019	37.19938	39.10843	0.6601181	0.7771139	0.6518176	-0.1252962
0.03013	0.00858	20.66762	15.21001	0.9279922	0.7865022	0.6918901	-0.09461217
0.0331	4.51E-05	43.45923	14.80168	0.7349408	0.5330003	0.4806436	-0.05235674
0.042133	0.00268	25.72397	13.75377	0.8172838	0.6668583	0.5683294	-0.09852889
0.029475	0.00049	33.13266	15.30552	0.778593	0.5717542	0.4844416	-0.08731261
0.027118	0.0228	16.42046	15.66743	0.8103663	0.8802714	0.815692	-0.06457939
0.002893	0.00384	24.15675	25.38661	0.7086502	0.8027413	0.6995385	-0.1032028
0.005448	0.00362	24.411	22.63767	0.1562714	0.088039	0.1390963	0.05105723
0.002164	0.00029	35.43765	26.64709	0.2923566	0.1645884	0.2631904	0.09860203
0.024822	0.00466	23.31632	16.05163	0.8859259	0.8052035	0.7303104	-0.07489306
0.001764	0.0294	15.31609	27.53565	0.8531541	0.908154	0.7874158	-0.1207382
1.67E-05	9.03E-07	60.44426	47.76194	0.2073305	0.0750089	0.1842178	0.1092089
0.034376	0.00021	36.82718	14.63744	0.2202045	0.3187667	0.2548263	-0.06394041
0.034618	0.04859	13.1343	14.60701	0.6286319	0.6904727	0.6224133	-0.06805931
0.045428	0.01768	17.52605	13.42675	0.0103183	0.1032081	0.2003034	0.09709527
0.000953	0.00575	22.40396	30.20724	0.5514623	0.6829033	0.5012326	-0.1816708
0.028883	0.00668	21.75452	15.39357	0.6223698	0.7694707	0.6751117	-0.09435894
0.001159	0.00018	37.47803	29.35769	0.8892935	0.7636035	0.842795	0.07919147
0.048981	3.07E-06	55.13359	13.09972	0.2818959	0.681519	0.7362504	0.05473142
0.00219	0.00106	29.73657	26.59516	0.1404881	0.4600719	0.670776	0.2107041
0.023937	0.00941	20.26283	16.20933	0.4916131	0.4220069	0.4772545	0.05524768
0.000115	0.00018	37.36662	39.40435	0.8450449	0.9337471	0.8431505	-0.09059656
0.046133	0.00216	26.65066	13.35988	0.8323505	0.6551583	0.7475805	0.09242225
0.005677	0.01947	17.10561	22.45906	0.8825688	0.7651548	0.6262403	-0.1389145
8.80E-05	0.00065	31.87088	40.55567	0.7403123	0.8007367	0.7448268	-0.0559099
0.016717	0.01084	19.65158	17.76842	0.8617764	0.7368124	0.844642	0.1078296
0.047511	0.01817	17.40686	13.23206	0.8989792	0.7849836	0.6694796	-0.115504
0.018105	0.00056	32.52081	17.4221	0.7886854	0.5815992	0.6788085	0.09720926
0.049225	0.00485	23.14626	13.07818	0.8742092	0.8138857	0.7626747	-0.05121105
0.001028	0.00334	24.76336	29.88084	0.4660129	0.5374211	0.4343076	-0.1031135
0.029778	0.01544	18.11427	15.26111	0.2002824	0.1258072	0.1925002	0.066693
0.011202	0.01789	17.47328	19.5072	0.5807164	0.6629964	0.5653063	-0.09769007
0.013375	0.01235	19.0847	18.7369	0.593089	0.6780363	0.5791398	-0.0988965
0.009638	2.88E-05	45.40089	20.16015	0.2242333	0.4820998	0.3878017	-0.09429803
0.009291	0.00354	24.5103	20.31944	0.7451004	0.8158203	0.7528228	-0.06299747
0.002993	0.00767	21.15294	25.23841	0.522521	0.6317301	0.5187727	-0.1129574
0.007629	0.00657	21.82575	21.17547	0.8864452	0.6892833	0.5231946	-0.1660887
0.014982	0.0062	22.0766	18.2444	0.6021434	0.6778994	0.6154674	-0.06243196

0.036546	0.0174	17.59467	14.37155	0.8180242	0.6771904	0.7837846	0.1065942
0.023466	0.00168	27.74427	16.2957	0.8222355	0.6441408	0.7446471	0.1005063
0.000603	0.0018	27.44341	32.19979	0.788392	0.8717019	0.7653274	-0.1063745
0.007056	0.01622	17.89856	21.51416	0.4683767	0.3653867	0.4838459	0.1184592
0.030742	0.02347	16.29488	15.12268	0.0559371	0.1442025	0.0631052	-0.08109733
0.004557	0.00014	38.42844	23.4132	0.0723025	0.3270194	0.4265057	0.09948628
0.032162	0.0009	30.47151	14.92655	0.7551958	0.6594738	0.7207837	0.06130988
0.046434	0.00076	31.19099	13.33167	0.7791944	0.5433034	0.4531168	-0.09018662
0.049764	0.02379	16.23651	13.03085	0.8587486	0.7327954	0.8267977	0.09400234
0.012932	0.00913	20.39514	18.88324	0.1394003	0.0720926	0.1305422	0.05844964
0.039995	0.00207	26.84646	13.97993	0.7844148	0.6871794	0.7395379	0.05235847
1.36E-05	0.00016	37.86895	48.66885	0.8517113	0.9592043	0.8233761	-0.1358282
0.005986	0.00027	35.61221	22.22843	0.236653	0.3252665	0.4506913	0.1254248
0.030663	0.00675	21.70859	15.13391	0.1110786	0.2207524	0.3665247	0.1457723
7.93E-06	0.00014	38.6869	51.00922	0.8717026	0.9425912	0.8686463	-0.07394502
0.006528	0.02617	15.82114	21.85242	0.8445369	0.7196698	0.5431384	-0.1765313
0.03513	0.02036	16.91161	14.54319	0.738527	0.5352892	0.7043663	0.1690771
0.016794	0.00637	21.95779	17.74854	0.8134353	0.7070044	0.7858912	0.07888682
0.002284	0.00029	35.35643	26.41227	0.2367425	0.086936	0.2006007	0.1136647
0.004651	4.36E-06	53.60518	23.32421	0.7833151	0.5598851	0.4298956	-0.1299895
0.029986	0.03115	15.06535	15.23088	0.3674958	0.6340837	0.378739	-0.2553447
0.027648	0.00083	30.79854	15.5834	0.0529584	0.3237143	0.4399567	0.1162423
0.024381	0.01307	18.83846	16.12949	0.7306002	0.5993564	0.7147948	0.1154384
0.027181	0.0167	17.7723	15.65727	0.9236619	0.8580797	0.9130652	0.05498553
0.016518	0.00036	34.49595	17.82034	0.8234081	0.5930573	0.4934585	-0.09959882
0.011769	0.02979	15.25915	19.29264	0.568641	0.6295372	0.5500749	-0.07946236
0.000967	0.00148	28.30455	30.14439	0.6348285	0.8658229	0.6565632	-0.2092596
0.047015	0.00175	27.57585	13.2776	0.7675041	0.5807507	0.4998838	-0.08086691
0.043049	5.99E-06	52.22585	13.66037	0.8452714	0.6970727	0.7500534	0.05298063
1.06E-05	0.00014	38.46067	49.74494	0.6819008	0.8528392	0.6406047	-0.2122345
0.010568	0.01056	19.76389	19.76027	0.8485389	0.9205534	0.8503205	-0.07023293
0.039048	0.00513	22.89879	14.08402	0.5184668	0.7217395	0.8479491	0.1262096
0.011302	0.01396	18.55017	19.46837	0.7007859	0.7566051	0.6979068	-0.05869834
0.020435	3.45E-07	64.62225	16.89625	0.1501165	0.4057047	0.4827504	0.07704578
0.003009	3.32E-05	44.78856	25.21523	0.6500432	0.3870443	0.4647725	0.07772825
0.048628	0.03973	14.00851	13.13117	0.8107995	0.7355809	0.8061578	0.07057695
0.015173	2.14E-05	46.68912	18.18939	0.7949985	0.599324	0.5310279	-0.06829607
0.005083	0.00484	23.15014	22.93864	0.5721222	0.6702618	0.564155	-0.1061068
0.016918	0.01532	18.14716	17.71663	0.6572275	0.7418278	0.6599712	-0.08185668
0.023884	3.92E-06	54.07118	16.21887	0.8824737	0.6269362	0.5141652	-0.1127711
0.021668	0.01005	19.97905	16.64177	0.8365631	0.9169666	0.8468322	-0.07013434
0.000376	4.53E-05	43.43974	34.24529	0.2171373	0.0953237	0.1876778	0.0923541
0.025807	0.04151	13.81797	15.88265	0.7966474	0.9058216	0.7166157	-0.1892059
0.000202	0.00066	31.81955	36.94433	0.909888	0.8254279	0.7207745	-0.1046534
0.018193	0.00852	20.69751	17.40085	0.2386272	0.125442	0.2178639	0.09242193
0.018375	0.02335	16.3172	17.3577	0.7912427	0.8470023	0.7871552	-0.05984707
0.036196	0.035	14.55917	14.41336	0.4050051	0.5381041	0.6558524	0.1177483
0.002067	0.00919	20.36892	26.84594	0.2154168	0.3057907	0.1808019	-0.1249889
0.00157	0.00134	28.7374	28.0417	0.1449506	0.0850746	0.143276	0.05820141
0.013849	0.03524	14.52999	18.58567	0.4915885	0.611703	0.4563235	-0.1553795
0.022246	0.02373	16.24788	16.52743	0.1757205	0.0690195	0.1230303	0.05401082
0.026332	0.01796	17.4564	15.79512	0.9048826	0.7764599	0.8937153	0.1172554
0.001766	2.16E-05	46.65841	27.52943	0.5423227	0.6259217	0.539832	-0.08608969
0.001909	0.0003	35.30057	27.19152	0.880581	0.9397134	0.8848065	-0.05490696

0.034947	0.00029	35.44307	14.56593	0.87446	0.6937419	0.6305191	-0.06322281
0.032239	0.01863	17.2974	14.91616	0.84967	0.7818161	0.8445969	0.06278077
0.006167	0.00758	21.20078	22.09946	0.5471723	0.6556591	0.5445812	-0.1110779
0.021217	0.00541	22.66613	16.73309	0.8660042	0.7259308	0.8253973	0.09946648
0.019519	0.02225	16.52683	17.09549	0.7977532	0.8646904	0.7973048	-0.06738559
0.003887	0.0093	20.31676	24.1041	0.686976	0.8387926	0.662648	-0.1761446
0.00029	0.00037	34.3624	35.37448	0.6232367	0.6757022	0.5948042	-0.080898
0.040279	0.02971	15.27027	13.94926	0.8497192	0.7278738	0.8331885	0.1053147
0.01977	0.00042	33.78653	17.04	0.0960347	0.3348751	0.464911	0.1300359
0.006272	0.0041	23.87411	22.02587	0.582684	0.6682555	0.5903847	-0.07787075
0.000595	0.00043	33.65258	32.25762	0.8277869	0.9046111	0.830505	-0.0741061
8.93E-05	0.00076	31.18974	40.4892	0.3877747	0.5007745	0.3879983	-0.1127762
0.04594	0.00107	29.6941	13.3781	0.8087173	0.6713879	0.5957207	-0.07566717
4.14E-05	2.52E-05	45.99195	43.82798	0.6103518	0.7993979	0.6124632	-0.1869346
0.026009	0.02427	16.14938	15.84871	0.3932118	0.2992	0.3896038	0.09040384
0.002391	0.00034	34.62368	26.21423	0.9141786	0.8305917	0.7377886	-0.09280317
0.019513	0.0228	16.42137	17.09667	0.8088773	0.8854697	0.8093631	-0.07610658
0.035445	0.02383	16.22793	14.50447	0.8270572	0.7411636	0.8161945	0.07503085
0.009816	0.00366	24.3677	20.08052	0.8034298	0.6487674	0.7474903	0.09872294
0.021096	0.02593	15.86145	16.75793	0.0725772	0.1336964	0.2310715	0.09737508
0.015102	0.01315	18.81176	18.20959	0.2822671	0.1722359	0.2699425	0.0977066
0.007709	0.00032	34.95444	21.13	0.7362339	0.5776743	0.662308	0.08463379
2.44E-06	3.16E-05	45.00648	56.11856	0.8644944	0.9271806	0.8400039	-0.08717667
0.048343	0.00732	21.35269	13.1567	0.8983575	0.8254994	0.765155	-0.06034437
0.003696	0.03466	14.6021	24.32323	0.6531553	0.7456724	0.5984065	-0.1472659
0.003139	0.00046	33.33614	25.03195	0.2247743	0.1354048	0.2013742	0.06596939
0.017179	0.01216	19.15086	17.64997	0.8149583	0.7482298	0.6594842	-0.08874554
0.001198	0.0047	23.27502	29.21674	0.7770566	0.944681	0.7517993	-0.1928816
0.025041	0.00614	22.1154	16.01355	0.8307254	0.7599083	0.6894444	-0.0704638
0.026998	0.00102	29.92909	15.68674	0.0908679	0.174231	0.246158	0.07192696
0.00737	0.00314	25.03212	21.32523	0.2107775	0.0972665	0.1875739	0.09030743
0.008302	0.01003	19.98556	20.80811	0.7937562	0.8804025	0.7951065	-0.085296
0.034698	0.02121	16.73539	14.59698	0.8887438	0.7909905	0.8792591	0.08826853
0.014142	0.00419	23.78246	18.49482	0.8550581	0.9435096	0.879483	-0.06402653
0.003921	0.0075	21.24683	24.06574	0.8360046	0.9009897	0.8269656	-0.07402412
0.000437	1.62E-05	47.90571	33.59702	0.1932538	0.0750123	0.146195	0.0711827
0.005904	0.01089	19.63098	22.28868	0.7114868	0.848197	0.7008556	-0.1473414
0.018399	0.00151	28.20047	17.35214	0.8044447	0.6274093	0.5407426	-0.08666675
0.03887	0.00067	31.71387	14.10383	0.4996774	0.640784	0.5861773	-0.05460675
0.028462	0.04994	13.01522	15.45739	0.6734805	0.6034392	0.6772892	0.07385003
0.044452	0.00102	29.91588	13.52113	0.7634058	0.5795058	0.4815275	-0.09797832
0.00523	0.00472	23.2574	22.81479	0.5791419	0.8411894	0.6139012	-0.2272882
0.000205	0.0002	37.02134	36.89148	0.6631149	0.841496	0.6693677	-0.1721283
0.040679	3.64E-05	44.38482	13.9063	0.3385151	0.7760456	0.6658537	-0.1101919
0.000257	7.18E-05	41.43652	35.90712	0.7438704	0.8439952	0.7556568	-0.0883383
0.000212	0.00013	38.75623	36.74475	0.8245693	0.9431956	0.8449928	-0.09820285
0.001794	0.00074	31.29619	27.46229	0.1731077	0.0899913	0.1620895	0.07209826
0.004301	0.00129	28.8872	23.66395	0.7217137	0.837697	0.7268938	-0.1108032
0.000453	0.00035	34.5761	33.44341	0.7132032	0.6330778	0.7061757	0.07309792
0.000997	0.00053	32.76736	30.0116	0.8727152	0.9322978	0.8738312	-0.05846659
0.000125	8.47E-05	40.72335	39.02751	0.3922054	0.5009223	0.3884748	-0.1124474
0.044262	5.45E-05	42.63553	13.53967	0.8988973	0.7352877	0.6573837	-0.07790399
0.032885	0.00982	20.07985	14.83006	0.8791307	0.7167174	0.6129872	-0.1037302
0.041756	0.00775	21.10576	13.79282	0.749796	0.5797697	0.6835357	0.1037661

0.000164	8.64E-05	40.63286	37.85253	0.0852331	0.0182344	0.0763675	0.05813302
0.005029	0.01635	17.86467	22.98536	0.5739704	0.6345317	0.5553645	-0.07916714
0.000239	2.21E-06	56.56031	36.21262	0.1704737	0.059877	0.1217187	0.06184168
0.026519	0.03224	14.91589	15.76443	0.0797462	0.167319	0.2714083	0.1040893
0.016643	0.02624	15.8096	17.78765	0.6955193	0.7503524	0.690695	-0.05965737
0.034508	0.01083	19.65545	14.62077	0.3240122	0.2181151	0.2942962	0.07618111
0.049895	0.00902	20.44694	13.01944	0.8777055	0.7550005	0.686152	-0.06884851
0.001425	0.00248	26.0556	28.46041	0.6748219	0.7636562	0.6567662	-0.10689
7.46E-05	4.05E-06	53.92222	41.26986	0.2379258	0.1301401	0.2325242	0.1023841
0.030997	0.0094	20.27018	15.08679	0.7999006	0.7303442	0.7811673	0.0508231
0.045905	0.03717	14.29803	13.38138	0.8860163	0.7508648	0.6312246	-0.1196403
0.003633	0.03849	14.14624	24.39685	0.9279924	0.8410036	0.6947457	-0.146258
0.000954	0.00074	31.33079	30.2031	0.1338707	0.2098838	0.134712	-0.07517187
0.001785	0.00453	23.43987	27.4828	0.9034321	0.8299874	0.9077585	0.07777113
0.038772	0.00105	29.78048	14.11482	0.0747986	0.3803443	0.5096182	0.1292739
0.000811	0.00057	32.46071	30.91097	0.1709839	0.109589	0.1704156	0.0608266
0.002764	0.00617	22.09582	25.5844	0.8184178	0.7521049	0.6642314	-0.08787354
0.033652	0.00196	27.07492	14.72986	0.8865961	0.8277041	0.7253732	-0.1023309
0.017476	0.04273	13.69314	17.57566	0.8761733	0.952545	0.8678629	-0.08468203
0.016226	0.00114	29.43268	17.89801	0.0655149	0.1588617	0.2187883	0.05992654
0.010015	0.00268	25.72122	19.99332	0.5403116	0.3453251	0.1967677	-0.1485574
0.038516	0.03141	15.02957	14.14356	0.3078228	0.3971371	0.4778007	0.08066358
0.046207	0.04009	13.96959	13.35294	0.8000283	0.8673186	0.8144493	-0.05286934
0.013887	0.01988	17.01626	18.57383	0.1956564	0.3171428	0.4318398	0.1146969
0.000187	0.00136	28.67903	37.27081	0.6034932	0.6544652	0.5807362	-0.07372896
6.93E-05	0.00048	33.15998	41.59381	0.7779845	0.9165727	0.7785808	-0.1379919
0.008778	0.01172	19.31134	20.56626	0.6384927	0.7534823	0.6366603	-0.116822
0.041902	0.00183	27.38115	13.77768	0.0632721	0.3187867	0.4274243	0.1086375
0.012586	0.01491	18.26491	19.00129	0.4674576	0.6047721	0.7524878	0.1477157
0.019892	0.0086	20.65556	17.0132	0.8168115	0.7333139	0.6695092	-0.06380471
0.019435	0.01473	18.31884	17.11412	0.8410664	0.7617132	0.8397653	0.07805202
0.012886	0.00292	25.34222	18.89897	0.7701303	0.6509818	0.7303489	0.07936706
0.003685	0.00582	22.35063	24.33513	0.8581735	0.7698393	0.8612883	0.09144895
0.028129	0.04157	13.81185	15.5085	0.285254	0.1974266	0.2961265	0.09869985
0.034863	2.09E-05	46.78905	14.5764	0.1445337	0.4361781	0.3335921	-0.102586
0.050002	0.04072	13.90143	13.01016	0.3226405	0.1904726	0.311379	0.1209065
0.009355	0.0099	20.04198	20.28953	0.9171055	0.8462718	0.7784034	-0.0678684
0.041137	0.00619	22.08659	13.85769	0.8244957	0.6080739	0.5016237	-0.1064503
0.039344	0.02335	16.31789	14.05122	0.8689983	0.8016469	0.7358074	-0.06583944
0.000674	0.00021	36.85274	31.71648	0.3947357	0.4661939	0.3948664	-0.07132749
0.000264	0.00138	28.59144	35.78224	0.74344	0.8119581	0.7221516	-0.08980657
0.01015	0.01537	18.13188	19.93517	0.3248214	0.3807398	0.4424506	0.06171077
0.000614	0.00034	34.74196	32.11708	0.5993117	0.6771135	0.6079766	-0.06913692
0.003282	0.02711	15.66876	24.83849	0.6360913	0.6992617	0.6002809	-0.09898081
0.017408	0.03238	14.89743	17.59264	0.8809274	0.8236166	0.8950839	0.07146727
0.009699	2.36E-07	66.27759	20.13283	0.2255621	0.7374179	0.8370898	0.09967183
0.021744	0.01073	19.69224	16.62668	0.3558027	0.2330829	0.3171232	0.08404027
0.008994	0.00074	31.28778	20.46032	0.8077333	0.6763499	0.5801033	-0.09624665
0.030864	0.00676	21.69834	15.10544	0.5257611	0.6935138	0.5854129	-0.1081009
0.039114	0.03006	15.2207	14.07671	0.8689305	0.8025665	0.8603259	0.05775946
0.046237	0.0004	33.97305	13.35007	0.139256	0.4158304	0.5163604	0.10053
0.000992	0.00065	31.8547	30.03434	0.1817962	0.0962573	0.1624782	0.06622088
0.000554	9.15E-05	40.38378	32.56626	0.6696109	0.7898922	0.6959968	-0.09389538
0.022741	0.01626	17.88898	16.43186	0.0729386	0.3393736	0.1025103	-0.2368633

0.003608	0.00491	23.09331	24.42681	0.8142924	0.9106886	0.8206704	-0.09001815
0.025044	0.01672	17.7665	16.01288	0.2337019	0.1591288	0.2254741	0.06634527
0.006017	0.01703	17.68695	22.20615	0.8124391	0.7213763	0.8404656	0.1190893
0.039822	0.00802	20.95691	13.9988	0.8434232	0.7718775	0.7109481	-0.06092949
0.012423	0.04846	13.14625	19.05776	0.2355421	0.1509319	0.2736364	0.1227045
8.83E-05	0.00023	36.35512	40.54019	0.6201336	0.7158989	0.6223098	-0.09358905
0.007187	0.00029	35.37002	21.43457	0.8085612	0.6741093	0.5716732	-0.1024361
7.49E-06	6.63E-05	41.785	51.25304	0.7517112	0.8889953	0.7447507	-0.1442446
0.026923	0.00259	25.87103	15.69877	0.7878132	0.5766343	0.6942276	0.1175933
0.026247	0.0248	16.05521	15.80921	0.444427	0.5481756	0.4488862	-0.0992894
0.007379	0.02246	16.48657	21.32008	0.7431929	0.8375262	0.7126668	-0.1248594
0.04875	0.00285	25.44619	13.12028	0.720524	0.4779826	0.5794536	0.1014711
0.00293	0.00129	28.88603	25.33182	0.8802226	0.9488911	0.8869981	-0.06189309
0.017036	1.75E-05	47.56293	17.68626	0.6170093	0.8392813	0.8935217	0.05424038
0.0003	0.00036	34.45469	35.23546	0.6366087	0.7198226	0.6448448	-0.0749778
0.005716	0.01349	18.69945	22.42915	0.7886895	0.6998137	0.5985775	-0.1012362
9.19E-07	9.73E-07	60.11846	60.36578	0.3273498	0.4831805	0.3376184	-0.1455621
0.006176	0.00586	22.32023	22.09323	0.1798096	0.1167972	0.173096	0.05629874
0.022306	0.00668	21.75093	16.51574	0.8637033	0.7516559	0.8343945	0.08273863
0.019257	0.00134	28.73862	17.15422	0.8248902	0.717692	0.7701767	0.05248468
0.018884	0.01909	17.19154	17.2391	0.8148311	0.74835	0.6573421	-0.09100793
0.012814	0.00201	26.96666	18.92307	0.8223655	0.7168283	0.7783277	0.06149942
0.008428	0.00098	30.06949	20.74266	0.2137715	0.1547905	0.2144964	0.05970588
0.021903	0.00613	22.12728	16.5949	0.5284284	0.6330824	0.5603646	-0.07271786
0.020739	2.63E-05	45.79244	16.83222	0.3721474	0.5541613	0.6084592	0.054298
0.030516	0.02223	16.53002	15.15466	0.2307887	0.1512374	0.2154821	0.06424474
0.006428	0.00522	22.82003	21.9195	0.171737	0.0696524	0.1661459	0.09649348
0.006152	0.00033	34.85276	22.1097	0.8905935	0.794871	0.7229287	-0.07194232
0.004096	0.00033	34.84798	23.87693	0.7345275	0.6119443	0.5059128	-0.1060315
0.000145	0.0008	30.97646	38.40083	0.5700108	0.6901916	0.5529956	-0.137196
2.70E-07	9.47E-06	50.23688	65.69008	0.0965317	0.0277212	0.0894075	0.06168627
0.046376	0.0062	22.07437	13.33708	0.8378067	0.7465659	0.6708011	-0.07576485
0.019366	0.0195	17.1005	17.12963	0.8181603	0.6539973	0.5004987	-0.1534986
0.026245	0.00588	22.30418	15.80954	0.962385	0.7382519	0.6130195	-0.1252324
0.015132	0.00034	34.66219	18.201	0.8215615	0.6862302	0.7491593	0.06292913
0.044696	7.90E-05	41.02449	13.49729	0.162788	0.5437543	0.4460994	-0.09765494
0.045824	0.02136	16.7047	13.38902	0.8334076	0.764137	0.8200324	0.05589538
0.026751	0.0017	27.68306	15.72662	0.0381643	0.0927399	0.1541812	0.06144127
0.031275	0.0156	18.06858	15.04799	0.8656411	0.7894096	0.8492261	0.05981647
0.014302	0.01127	19.4798	18.44593	0.5762534	0.7693679	0.5795475	-0.1898204
0.009093	0.00226	26.45249	20.4129	0.5971651	0.809579	0.6771328	-0.1324462
0.002466	0.00111	29.54901	26.0802	0.6337983	0.7540875	0.6357372	-0.1183503
0.001019	0.00072	31.40904	29.9192	0.1201141	0.0481816	0.1208286	0.072647
0.042018	0.00166	27.80828	13.76567	0.8420303	0.7306397	0.7832893	0.05264962
0.044415	0.01701	17.69317	13.52469	0.8446536	0.7393273	0.6330805	-0.1062467
0.000171	2.09E-05	46.79613	37.65817	0.3543163	0.2062574	0.3352079	0.1289505
0.046048	0.01712	17.66387	13.3679	0.0574273	0.123376	0.0729804	-0.0503956
5.41E-06	8.00E-06	50.96736	52.66464	0.3192389	0.504706	0.3266927	-0.1780132
0.007598	0.00796	20.99116	21.1931	0.5676688	0.7024397	0.5662894	-0.1361503
0.02771	0.00328	24.83955	15.57364	0.7968505	0.6939052	0.755609	0.06170379
0.000339	0.00179	27.4662	34.69278	0.5054695	0.7036299	0.4906219	-0.213008
0.008597	0.00056	32.49944	20.65678	0.7169701	0.8409451	0.7678084	-0.07313676
0.000185	1.74E-06	57.59478	37.32014	0.8438733	0.9381442	0.8631786	-0.07496563
0.038342	0.00675	21.70629	14.16322	0.84035	0.7278896	0.6195945	-0.1082952

0.002804	0.00505	22.96775	25.52245	0.1422386	0.0728222	0.1474821	0.07465992
0.022535	0.02893	15.38602	16.47139	0.9313923	0.829572	0.7301904	-0.09938158
0.024373	0.01837	17.35953	16.13091	0.8899657	0.8246312	0.8856366	0.06100546
0.018254	0.01318	18.8004	17.38642	0.0750361	0.1363913	0.0800806	-0.05631071
4.16E-07	1.55E-07	68.08562	63.80906	0.2724632	0.0934731	0.2476378	0.1541648
0.012081	0.03183	14.97124	19.17885	0.867537	0.9195276	0.8546643	-0.06486329
0.024387	0.00305	25.15944	16.12844	0.1604662	0.2936283	0.2106939	-0.08293445
0.01092	0.00966	20.14991	19.61776	0.8603356	0.7243563	0.6022764	-0.1220798
0.000222	0.00038	34.22347	36.54462	0.760689	0.8528271	0.7336025	-0.1192246
0.036725	0.00083	30.83397	14.35035	0.1982713	0.3611486	0.4325829	0.07143427
0.049988	0.02552	15.93138	13.01132	0.8198339	0.7338018	0.8007043	0.06690254
0.04577	0.04844	13.14825	13.39418	0.8490995	0.9153593	0.849876	-0.06548332
0.032961	0.01022	19.90738	14.82003	0.6643351	0.7508209	0.6871173	-0.06370361
0.00865	0.00548	22.61298	20.62993	0.2443444	0.154636	0.2344162	0.07978018
0.033927	0.00078	31.08348	14.69459	0.8441431	0.7186818	0.7764314	0.05774958
0.026727	0.04937	13.06554	15.73045	0.8385035	0.8983261	0.8232819	-0.07504416
3.78E-05	3.69E-05	44.32969	44.22647	0.7167479	0.8100146	0.6819865	-0.1280281
0.023541	2.73E-06	55.6324	16.28183	0.2645534	0.5259598	0.6204609	0.09450112
0.032347	0.00031	35.08482	14.90166	0.774997	0.5782238	0.6575458	0.07932197
0.015273	0.02839	15.46811	18.16079	0.5422248	0.6345955	0.5327309	-0.1018646
0.011731	0.00077	31.15008	19.30683	0.8328382	0.7545258	0.653375	-0.1011508
0.036112	0.02506	16.00945	14.42347	0.9079155	0.8206398	0.8956215	0.07498169
0.00093	0.00025	35.96452	30.31405	0.1522554	0.0605186	0.144033	0.08351444
0.014831	0.00735	21.33592	18.28828	0.1698051	0.1045484	0.1579227	0.05337434
0.049298	0.03399	14.68693	13.07169	0.5127397	0.443108	0.5050725	0.06196447
0.010801	0.01008	19.96364	19.66533	0.1198365	0.0556115	0.1324995	0.07688802
0.048349	0.02037	16.9103	13.15615	0.2104492	0.1127983	0.1899465	0.07714821
0.040464	0.00706	21.51418	13.92936	0.8643309	0.761129	0.6971862	-0.06394284
0.008245	2.23E-06	56.51712	20.83825	0.8091699	0.5055218	0.4390151	-0.06650667
0.001581	0.00802	20.96078	28.01091	0.5484064	0.6050687	0.5328064	-0.0722623
0.00249	0.01	20.00086	26.03873	0.722482	0.7878085	0.6969248	-0.09088371
0.043174	0.04802	13.18561	13.64774	0.5976375	0.6710907	0.5992472	-0.07184346
0.004039	0.00544	22.64732	23.93673	0.9006627	0.8483537	0.7869948	-0.06135887
0.002923	0.00402	23.9599	25.34227	0.6736837	0.7747166	0.6689934	-0.1057232
0.006505	0.00347	24.59093	21.86755	0.9232899	0.5502098	0.2957743	-0.2544355
0.015912	0.00344	24.63649	17.98268	0.2611724	0.1117984	0.2044198	0.0926214
0.025232	0.01427	18.45661	15.98055	0.9070361	0.839999	0.8910933	0.05109426
0.000464	3.08E-07	65.1122	33.33092	0.5436957	0.7719638	0.8422766	0.07031278
0.011861	0.0011	29.60261	19.25868	0.4049546	0.5951082	0.7052993	0.1101911
0.009675	0.04589	13.38247	20.14338	0.8983669	0.8320214	0.7253342	-0.1066872
0.017944	0.01225	19.11741	17.46084	0.1392471	0.414169	0.6569742	0.2428052
0.024507	0.00133	28.75529	16.10702	0.8464075	0.7409524	0.673117	-0.06783544
0.009107	1.48E-05	48.30008	20.4064	0.1519033	0.0816028	0.1435897	0.06198684
1.86E-05	1.06E-05	49.75777	47.31189	0.656236	0.7682781	0.6604629	-0.1078153
0.020056	0.00587	22.31549	16.97755	0.9198182	0.8282958	0.8874261	0.0591303
0.000552	0.00071	31.51811	32.57935	0.8662385	0.9613621	0.8808418	-0.08052026
0.008152	0.0248	16.0555	20.88749	0.77986	0.8513904	0.7534772	-0.09791332
0.039577	0.00026	35.91109	14.02557	0.1317427	0.06198	0.1419623	0.07998232
0.000659	0.01418	18.48234	31.81075	0.8575201	0.9187996	0.8123362	-0.1064634
2.83E-05	4.50E-05	43.46861	45.47721	0.1961621	0.0961848	0.196142	0.09995724
0.021782	0.01215	19.15409	16.61896	0.189211	0.349372	0.4811869	0.1318149
0.026631	0.00058	32.36286	15.74611	0.6737944	0.4951133	0.4138949	-0.08121842
0.016945	0.0074	21.30544	17.70966	0.7394045	0.5965668	0.7169816	0.1204148
0.003192	0.00388	24.10616	24.95943	0.6853961	0.8028372	0.6796595	-0.1231777

0.015146	0.01771	17.51776	18.19699	0.7377155	0.8320647	0.7318944	-0.1001703
0.001927	0.00038	34.25024	27.15038	0.349464	0.2223143	0.3253472	0.1030328
0.006569	0.00088	30.53088	21.82518	0.7932461	0.8800777	0.8106563	-0.06942138
0.022665	0.01649	17.82877	16.44645	0.8758413	0.812045	0.872429	0.06038396
0.011565	0.00635	21.97264	19.36871	0.1390307	0.3727949	0.5577444	0.1849495
0.001842	0.00508	22.93961	27.34764	0.8785465	0.9450786	0.861239	-0.08383962
0.004534	0.00375	24.25628	23.43501	0.6424719	0.7196608	0.643299	-0.07636176
0.046235	0.0367	14.35305	13.35031	0.8655288	0.8121739	0.8627009	0.05052698
0.039949	0.02781	15.55796	13.98494	0.8633642	0.8034809	0.8560044	0.05252351
0.015809	0.0128	18.92807	18.01106	0.2058807	0.1330611	0.2017983	0.06873726
0.035264	0.01698	17.70075	14.52674	0.8959705	0.678296	0.8561503	0.1778543
0.02626	0.00258	25.88603	15.80712	0.8674574	0.7915885	0.843268	0.05167947
0.002668	0.00608	22.15876	25.7377	0.747432	0.8344315	0.7380829	-0.09634858
0.001751	0.00226	26.45046	27.56635	0.8817215	0.947947	0.8840031	-0.06394387
0.008009	0.00024	36.1628	20.9644	0.8600694	0.6788005	0.7775016	0.09870109
0.000562	0.00059	32.29779	32.50303	0.829765	0.9118755	0.8253434	-0.08653223
0.015853	0.03881	14.11087	17.99881	0.3913082	0.4461442	0.3720463	-0.07409796
0.043117	0.00105	29.80469	13.65352	0.9175413	0.8531537	0.7570284	-0.09612532
0.00324	0.00013	38.79695	24.8949	0.8284858	0.7381609	0.7902648	0.05210384
0.046745	0.05006	13.00523	13.30263	0.052517	0.148763	0.0499989	-0.09876417
0.018388	0.02167	16.64109	17.35475	0.5270005	0.6106536	0.5257762	-0.08487732
0.038752	9.91E-05	40.03859	14.11711	0.6874682	0.4051718	0.2716579	-0.1335139
0.000822	0.0002	36.89293	30.85026	0.8826635	0.8103183	0.8714787	0.06116043
0.04022	0.01963	17.07111	13.95556	0.1836615	0.4082447	0.2230375	-0.1852072
0.004123	0.00352	24.5287	23.84782	0.7742204	0.8570432	0.7771396	-0.07990358
0.002473	3.28E-05	44.84402	26.06767	0.8386874	0.8993456	0.8403196	-0.05902593
0.000118	0.00017	37.6977	39.29879	0.1194877	0.0634892	0.1146773	0.05118811
0.020631	0.00571	22.4346	16.85488	0.8268508	0.7051331	0.7803625	0.07522934
0.03779	0.00221	26.55538	14.22625	0.8097678	0.7155324	0.6476734	-0.06785897
0.031997	0.03407	14.67644	14.94889	0.0345218	0.1123245	0.0351988	-0.07712568
5.29E-05	1.61E-05	47.94358	42.76696	0.5047484	0.6745741	0.527495	-0.147079
0.007628	0.00047	33.31856	21.17589	0.8224887	0.7095512	0.7786771	0.06912594
0.007832	0.01743	17.58686	21.06118	0.7338737	0.8196555	0.7263935	-0.09326203
0.016064	0.0164	17.85264	17.94154	0.8177852	0.8937334	0.8212268	-0.0725067
0.016555	0.01918	17.17233	17.81059	0.503238	0.5936076	0.5009029	-0.09270468
0.021138	0.00815	20.88701	16.74945	0.7759247	0.6216882	0.7345815	0.1128933
0.002509	0.00192	27.16475	26.00529	0.2217341	0.1431432	0.2019923	0.05884909
1.97E-05	4.12E-05	43.84904	47.05126	0.5802932	0.7195016	0.574912	-0.1445896
0.013627	0.02204	16.56826	18.65606	0.096812	0.1955234	0.1081566	-0.0873668
0.016754	0.01037	19.84306	17.75886	0.7968634	0.6960736	0.7841593	0.08808571
0.014609	0.00846	20.72651	18.35385	0.5154845	0.6597101	0.5331602	-0.1265499
0.02317	0.05003	13.00798	16.35069	0.1926398	0.1340029	0.2108991	0.07689621
0.01804	0.00023	36.45005	17.43762	0.6411448	0.715705	0.653847	-0.06185802
0.015592	0.00291	25.36035	18.07092	0.8151526	0.6282275	0.5111213	-0.1171061
0.018481	0.00505	22.96593	17.33264	0.7188949	0.5919788	0.6913628	0.09938399
0.000413	0.00011	39.7021	33.83963	0.3553199	0.2010529	0.316859	0.1158061
0.014408	0.00654	21.8451	18.41387	0.2651499	0.1800667	0.251725	0.07165829
0.009276	0.01472	18.32035	20.32631	0.1792932	0.1199309	0.1876926	0.06776165
0.010849	0.01716	17.65538	19.64597	0.673802	0.7811453	0.6579317	-0.1232136
0.000258	6.67E-05	41.75853	35.87792	0.6389775	0.7193392	0.6287576	-0.09058162
0.021946	0.01299	18.86282	16.58638	0.5361301	0.6120533	0.5466649	-0.06538836
0.032552	0.01657	17.80748	14.87426	0.8384359	0.7617156	0.8281186	0.066403
0.008504	0.00268	25.7247	20.70353	0.8615983	0.6818411	0.81235	0.1305089
0.001418	0.0058	22.36294	28.48173	0.8220611	0.8887381	0.8036728	-0.08506526



1.34E-05	2.30E-05	46.3778	48.71417	0.2249569	0.0806789	0.2122886	0.1316096
0.003023	0.00145	28.37313	25.19529	0.7158273	0.8911354	0.7381746	-0.1529608
0.00541	0.00442	23.55001	22.66767	0.2773935	0.2162634	0.2743813	0.05811789
0.006554	0.0001	39.91153	21.83474	0.0555591	0.1723532	0.2501475	0.07779428
0.028972	0.00804	20.94741	15.38019	0.6905978	0.5616365	0.6515482	0.08991169
0.000479	0.00017	37.62746	33.19536	0.8027649	0.8925064	0.8163669	-0.07613952
0.000817	5.62E-06	52.50638	30.87543	0.1480155	0.0581233	0.1177596	0.05963628
0.006367	0.0005	32.97635	21.9605	0.7765135	0.8771774	0.8137154	-0.06346197
0.042436	0.01329	18.76637	13.72264	0.0693193	0.1489709	0.0929685	-0.05600242
0.000536	0.00011	39.4429	32.71162	0.8823876	0.8005157	0.8733792	0.07286357
0.011575	0.00903	20.44411	19.36466	0.7706701	0.6138374	0.7460172	0.1321798
0.000905	0.00052	32.80779	30.43558	0.1962269	0.1262362	0.1904606	0.06422439
0.039748	8.53E-07	60.69143	14.00686	0.1712134	0.7096164	0.6245701	-0.08504636
0.042451	0.02099	16.77958	13.72116	0.9355208	0.8775153	0.8244315	-0.05308368
6.74E-05	0.00073	31.37624	41.7165	0.5623617	0.6769698	0.5425994	-0.1343704
0.027715	0.01812	17.41877	15.57284	0.0814223	0.1713721	0.2943172	0.1229451
0.000135	2.16E-07	66.66306	38.70514	0.1802845	0.1008308	0.1523107	0.05147989
0.036719	0.00104	29.83071	14.35103	0.8523008	0.740775	0.7995806	0.05880555
0.03888	0.03547	14.50125	14.10279	0.2547251	0.1822209	0.2491887	0.06696783
0.022309	0.00111	29.56605	16.51521	0.1426393	0.2790923	0.3996327	0.1205405
0.043627	0.00063	32.0298	13.60246	0.0636071	0.4474119	0.5483794	0.1009675
0.000457	0.00019	37.3082	33.40464	0.1352927	0.0615399	0.1128383	0.05129838
0.021469	9.03E-05	40.44259	16.68178	0.0964015	0.172969	0.2889381	0.115969
0.045592	0.02535	15.95998	13.41107	0.7939043	0.7139481	0.7835271	0.06957893
0.019304	0.00811	20.90951	17.14344	0.7047027	0.6102822	0.6873931	0.07711087
0.001925	0.0018	27.4526	27.15612	0.8272638	0.7405383	0.6253453	-0.1151929
0.001095	0.00068	31.66704	29.60734	0.8461727	0.9216977	0.8539912	-0.06770661
0.014812	0.00086	30.63063	18.29398	0.105937	0.1996114	0.2645822	0.06497085
0.006121	0.00603	22.19363	22.13171	0.1702266	0.2691513	0.3635213	0.09437006
0.009042	0.0034	24.68184	20.43715	0.8456398	0.6777388	0.5563166	-0.1214223
0.002778	6.71E-06	51.72977	25.56269	0.6389064	0.3788095	0.2941232	-0.08468629
0.016759	0.00295	25.30358	17.75749	0.8161338	0.648042	0.7542636	0.1062216
0.030098	0.00013	38.77998	15.21469	0.8297636	0.647998	0.5687504	-0.07924764
0.010285	0.00094	30.28141	19.87783	0.6063306	0.7284706	0.8074811	0.0790105
0.049159	5.00E-05	43.00792	13.08396	0.2956384	0.5739837	0.4990445	-0.07493918
0.013347	0.00776	21.10023	18.74606	0.8433505	0.7435699	0.6555501	-0.08801976
0.000295	0.00011	39.44576	35.30751	0.1458343	0.0782512	0.1354541	0.05720293
3.58E-06	2.28E-05	46.42126	54.46049	0.4683146	0.639295	0.4392854	-0.2000096
0.005568	0.0078	21.08095	22.54272	0.7308844	0.8185987	0.7367201	-0.0818786
0.015138	0.0117	19.31781	18.19938	0.8714563	0.7420293	0.8560812	0.1140519
0.013154	2.24E-05	46.50002	18.80938	0.8536218	0.5111142	0.6201578	0.1090437
0.015522	0.04268	13.69783	18.09061	0.7717865	0.8833771	0.7400436	-0.1433336
0.011688	0.04604	13.36907	19.32243	0.6649339	0.7485789	0.6322267	-0.1163522
0.011946	0.00374	24.2671	19.22779	0.7484981	0.8099661	0.7042793	-0.1056868
0.006728	0.0132	18.79465	21.72136	0.6780589	0.7313096	0.6703762	-0.06093337
0.037805	0.02274	16.43267	14.22453	0.933248	0.800445	0.9092015	0.1087565
0.001516	0.00036	34.43133	28.19354	0.387637	0.7119805	0.8132825	0.101302
0.009667	0.00436	23.60137	20.14686	0.846316	0.9289244	0.8549373	-0.07398704
0.012133	0.009	20.45561	19.16021	0.2556115	0.1915627	0.2556983	0.06413558
0.032973	0.02531	15.96765	14.81847	0.3629112	0.4228913	0.3724126	-0.05047878
0.002958	0.00015	38.30663	25.28976	0.6933066	0.775656	0.7119949	-0.06366103
0.038446	0.00122	29.13567	14.1515	0.7763183	0.6473033	0.7093865	0.06208327
0.030062	0.00027	35.69422	15.21976	0.7900558	0.5969437	0.6751188	0.07817513
0.003683	0.00019	37.29406	24.33853	0.2379589	0.5140865	0.3580371	-0.1560494

0.00521	0.00046	33.34686	22.83162	0.1714435	0.0742634	0.1344102	0.06014684
0.004559	0.0499	13.01899	23.41106	0.809239	0.8735883	0.7382538	-0.1353345
0.00019	0.0001	39.91424	37.2154	0.6070604	0.7053557	0.5965669	-0.1087888
0.005961	0.00328	24.83717	22.24679	0.4399818	0.3472791	0.4408778	0.09359871
0.04088	0.0233	16.32685	13.88493	0.5863507	0.6754916	0.5997631	-0.07572856
0.025924	0.00029	35.44653	15.86295	0.1863261	0.0740876	0.1386888	0.06460119
0.012562	0.0015	28.24444	19.00933	0.7743555	0.4051916	0.5914469	0.1862553
0.014249	0.01276	18.94072	18.46204	0.1692021	0.10445	0.1679507	0.06350067
0.013114	0.01262	18.99094	18.82262	0.476707	0.3954567	0.4859833	0.09052663
0.031207	0.00447	23.50066	15.05749	0.1210553	0.4038256	0.5402852	0.1364596
0.026243	0.03756	14.25311	15.80994	0.8617217	0.7602103	0.6373924	-0.1228179
4.88E-05	0.00013	38.92073	43.11554	0.7125133	0.7996668	0.727859	-0.07180773
0.009238	0.02641	15.78221	20.34422	0.570573	0.6430999	0.725382	0.08228211
0.009177	0.00104	29.84917	20.37321	0.1775731	0.0977912	0.1658189	0.06802776
0.000233	4.30E-05	43.66233	36.32185	0.6837375	0.7618432	0.6972967	-0.06454644
0.015577	9.54E-05	40.20419	18.07527	0.7114092	0.5262555	0.4738886	-0.05236684
0.008845	0.01637	17.86065	20.53285	0.8192764	0.9071174	0.8111773	-0.09594011
0.030043	0.01776	17.50601	15.22253	0.166101	0.1001088	0.1514199	0.05131117
0.001962	0.00463	23.34481	27.07253	0.2338371	0.1816365	0.2598265	0.07818995
0.019272	0.01781	17.49435	17.15079	0.677596	0.8043672	0.6982759	-0.1060913
0.000239	1.25E-05	49.01829	36.21152	0.8308947	0.7543426	0.8194531	0.06511047
0.031185	0.00722	21.41484	15.0605	0.805079	0.5870955	0.4517864	-0.1353091
0.019403	0.03074	15.12361	17.12123	0.8080787	0.8718835	0.802224	-0.06965943
0.01039	0.00207	26.84115	19.83369	0.8751939	0.6483688	0.5006087	-0.14776
0.014325	0.02096	16.78566	18.43891	0.5580329	0.7316473	0.5372154	-0.1944319
0.031667	0.02025	16.93508	14.99399	0.8183814	0.7254298	0.8073846	0.08195484
0.001786	0.00012	39.18106	27.48012	0.1278473	0.0685067	0.1339586	0.06545191
0.013757	0.01031	19.86951	18.61486	0.7212935	0.8073885	0.7313472	-0.07604133
0.011953	0.00113	29.46776	19.22521	0.7074023	0.8260828	0.7619674	-0.06411549
0.030835	0.00584	22.33597	15.10956	0.6555849	0.7742952	0.6654208	-0.1088743
0.001398	0.00115	29.40244	28.54421	0.7426721	0.8580852	0.7374417	-0.1206435
0.004322	0.00526	22.79365	23.64313	0.601922	0.7820458	0.5930355	-0.1890103
0.009365	0.01209	19.17438	20.2851	0.8017745	0.8742275	0.792469	-0.08175848
0.00224	0.00045	33.50533	26.49742	0.8387436	0.7673209	0.8290238	0.06170298
0.03914	5.07E-05	42.94722	14.07377	0.8890319	0.827203	0.7361374	-0.09106556
0.04967	0.04638	13.3363	13.03904	0.9176594	0.8535081	0.9151744	0.06166637
0.02198	0.01458	18.36268	16.57973	0.7499295	0.640013	0.7383136	0.09830064
0.009411	0.00424	23.72461	20.26346	0.7407082	0.8587882	0.7623135	-0.09647467
0.03665	0.0046	23.37439	14.35922	0.9130695	0.8082737	0.7008724	-0.1074013
0.024091	0.00013	38.7945	16.18149	0.1812442	0.0759641	0.2136186	0.1376545
0.024681	0.01794	17.46176	16.07637	0.2210477	0.3150991	0.3990518	0.08395277
0.043733	0.01433	18.43623	13.59188	0.8308	0.6950482	0.5882165	-0.1068317
0.042112	0.02081	16.81778	13.75594	0.2987475	0.2420471	0.3102915	0.06824446
0.049194	0.04697	13.28144	13.08091	0.729651	0.8076078	0.7324364	-0.07517145
0.00943	0.00106	29.74101	20.25482	0.6910731	0.8515909	0.7448241	-0.1067668
0.0293	0.00256	25.91128	15.33139	0.8077032	0.6225736	0.7188261	0.09625256
3.59E-07	2.80E-06	55.5238	64.45213	0.6369642	0.7614793	0.6218985	-0.1395807
0.004083	0.01517	18.19057	23.89036	0.5125544	0.5861537	0.4875281	-0.09862569
0.021927	7.77E-05	41.09811	16.59016	0.3721895	0.4987459	0.5586203	0.05987434
0.025272	0.0023	26.38667	15.97358	0.0442529	0.2561721	0.3735828	0.1174108
0.038739	0.00356	24.49052	14.11848	0.1306817	0.5732374	0.7448538	0.1716164
0.041252	0.02369	16.25348	13.84558	0.8142619	0.6158355	0.7809874	0.1651519
0.020683	0.0078	21.07832	16.84386	0.5447013	0.4101385	0.5175903	0.1074518
0.004759	0.00249	26.0337	23.22475	0.8978682	0.7452767	0.8652841	0.1200074

0.000878	0.00043	33.68129	30.56425	0.7259021	0.8645582	0.7537932	-0.1107649
0.04681	0.00177	27.52116	13.29665	0.8490561	0.6271272	0.7196229	0.09249567
0.004055	0.0079	21.02401	23.9201	0.6363046	0.6911857	0.6279765	-0.06320913
0.000395	0.00019	37.2914	34.03453	0.4581884	0.5830508	0.4685503	-0.1145005
0.001195	0.00187	27.27329	29.22784	0.7943316	0.8972923	0.7901752	-0.1071171
0.04893	0.01469	18.32888	13.10428	0.6797759	0.7649358	0.6713881	-0.09354764
0.025608	0.00103	29.85965	15.91617	0.1232063	0.6011215	0.2948958	-0.3062257
0.036478	0.00295	25.3048	14.3797	0.7520145	0.6261827	0.6957663	0.06958354
0.016123	0.0011	29.57334	17.92559	0.7741111	0.7065338	0.7581022	0.05156833
0.002529	2.00E-06	56.98252	25.97131	0.827504	0.6745055	0.5599645	-0.114541
0.013215	0.00698	21.56373	18.78917	0.7727066	0.6337375	0.5402094	-0.09352815
0.007146	0.00101	29.97329	21.45909	0.4888407	0.632682	0.7326036	0.09992156
0.017371	0.00669	21.74528	17.6018	0.502241	0.5604945	0.5092538	-0.05124077
0.042769	0.02824	15.49084	13.68868	0.8461919	0.9134187	0.8552404	-0.05817832
0.018082	0.01878	17.2642	17.42748	0.641176	0.7288612	0.6352851	-0.09357598
0.044522	0.03021	15.1982	13.51422	0.2195528	0.3310888	0.2291775	-0.1019113
0.047193	0.03606	14.43034	13.26123	0.7950305	0.5230982	0.7689259	0.2458278
0.005544	0.00194	27.12921	22.56171	0.884742	0.6860604	0.8266432	0.1405828
0.000315	8.23E-06	50.84425	35.01778	0.2851898	0.1143539	0.2773139	0.16296
0.009036	0.02478	16.05865	20.44005	0.2383942	0.1689777	0.2583522	0.08937455
0.030739	0.03559	14.48697	15.12316	0.4401545	0.7186464	0.4276636	-0.2909829
0.036721	0.003	25.2271	14.35083	0.7981464	0.6484854	0.5380121	-0.1104733
0.002181	0.01116	19.52309	26.61324	0.8822283	0.8071133	0.6980801	-0.1090333
0.029205	0.03043	15.16632	15.34541	0.6479378	0.5971879	0.520228	-0.07695989
0.023235	0.00032	34.89014	16.33866	0.7500089	0.4574052	0.5578777	0.1004724
0.003012	0.00177	27.53179	25.21109	0.6169373	0.6699687	0.6118599	-0.05810884
0.037957	0.00218	26.6101	14.2071	0.8036386	0.6967652	0.7518381	0.05507285
0.029005	0.00557	22.54384	15.37526	0.0938941	0.1850554	0.1225644	-0.062491
0.016526	0.00491	23.08535	17.81824	0.5590912	0.3574525	0.4755634	0.1181109
0.00267	0.0326	14.86846	25.73431	0.4556885	0.3779339	0.5162753	0.1383414
0.003472	1.51E-05	48.20979	24.59411	0.2075185	0.1194773	0.1978848	0.07840748
0.020721	0.00791	21.01828	16.83596	0.8607833	0.7578493	0.6808174	-0.07703185
0.00972	0.00181	27.42157	20.12322	0.1957161	0.0836854	0.1547859	0.07110055
0.036931	0.00334	24.75997	14.32604	0.7195213	0.5473837	0.4408368	-0.1065469
0.007312	0.0501	13.00187	21.35953	0.896138	0.829609	0.7111821	-0.118427
0.0247	0.00805	20.94147	16.07302	0.6988598	0.7899684	0.7324434	-0.05752499
0.037516	0.00029	35.40042	14.2578	0.8685051	0.7333542	0.6632515	-0.07010264
0.012552	0.00071	31.46003	19.01295	0.7969697	0.6781725	0.5686902	-0.1094823
0.00569	0.00185	27.33656	22.44851	0.836977	0.7043239	0.5651007	-0.1392233
0.03614	0.00736	21.33232	14.42012	0.7081518	0.794245	0.7344101	-0.05983494
0.024716	0.03223	14.91755	16.07018	0.6928945	0.8048919	0.6903452	-0.1145466
0.044009	0.01296	18.87467	13.56458	0.8236411	0.7713467	0.6872816	-0.08406512
0.016853	0.00022	36.51133	17.73312	0.8823937	0.7631398	0.8203424	0.05720259
0.044674	0.0085	20.70679	13.49941	0.8072482	0.6188426	0.48464	-0.1342027
0.00126	0.00132	28.80738	28.99703	0.7037057	0.8810454	0.7337718	-0.1472736
0.006972	0.00662	21.79038	21.5663	0.2298219	0.1340973	0.2565496	0.1224523
0.048885	0.00578	22.38191	13.10824	0.7654794	0.5241776	0.3999438	-0.1242338
0.007508	0.00199	27.00698	21.24448	0.8622595	0.7789927	0.8436773	0.06468471
0.037409	0.01132	19.46197	14.27023	0.1660082	0.2962573	0.2009328	-0.09532455
0.003814	0.00246	26.0915	24.18646	0.7515318	0.6185666	0.7031722	0.08460556
0.029597	0.00425	23.72016	15.28751	0.5223018	0.3771	0.4752969	0.09819689
0.014822	0.00496	23.04581	18.29088	0.9272162	0.8142892	0.6942034	-0.1200858
0.003461	0.00605	22.18188	24.6076	0.421629	0.4919037	0.4199809	-0.07192281
0.039531	0.00237	26.25146	14.03067	0.0477686	0.2393294	0.3477387	0.1084094

0.002198	0.00169	27.72647	26.57982	0.1346194	0.0697631	0.127687	0.05792392
0.000394	0.00261	25.82925	34.04634	0.4607723	0.5627086	0.4455199	-0.1171887
0.021344	0.00396	24.02315	16.70722	0.7817985	0.6373971	0.5358242	-0.1015729
0.027565	0.01167	19.32769	15.59646	0.7430468	0.808935	0.7553481	-0.05358693
0.02601	0.04402	13.56348	15.84857	0.7408864	0.8090762	0.7290841	-0.07999218
0.006664	0.00654	21.84635	21.76255	0.7204899	0.7767711	0.7159742	-0.06079694
0.01347	0.0098	20.08631	18.70634	0.589086	0.5262632	0.5888494	0.06258617
0.036992	0.00115	29.38243	14.31891	0.7534401	0.5536229	0.4793546	-0.07426822
0.042041	0.01239	19.07051	13.76331	0.0599901	0.1716815	0.1011251	-0.07055641
0.00606	0.00464	23.33191	22.175	0.8149159	0.9085783	0.8266852	-0.08189298
0.023628	0.01961	17.07551	16.26573	0.2920578	0.4035414	0.465883	0.06234155
0.034868	0.00552	22.5767	14.57578	0.8739575	0.719062	0.8076932	0.08863123
0.041699	0.03483	14.58077	13.79877	0.6731187	0.7327723	0.6796032	-0.05316915
0.002862	7.79E-05	41.08508	25.43369	0.8143907	0.8770835	0.8023742	-0.07470936
0.006078	0.01828	17.38018	22.16218	0.8064544	0.8892201	0.7862859	-0.1029341
0.024154	0.02819	15.49964	16.17014	0.4984639	0.3553025	0.4970852	0.1417827
0.042616	0.04354	13.61142	13.70427	0.3149181	0.4119304	0.5157508	0.1038205
9.04E-05	1.35E-05	48.69875	40.43604	0.7828779	0.8484039	0.7752458	-0.07315812
0.040673	0.02604	15.8442	13.90698	0.9157013	0.8530497	0.9055814	0.05253167
9.40E-05	0.00015	38.1173	40.27067	0.5395284	0.6385641	0.5316182	-0.1069459
0.03565	0.01492	18.26364	14.47942	0.8559284	0.6311988	0.4795972	-0.1516016
0.00092	0.01539	18.12873	30.36223	0.8889254	0.7843829	0.6217644	-0.1626185
2.50E-05	1.92E-06	57.1657	46.02232	0.0868422	0.0152902	0.074344	0.05905388
0.000231	0.00027	35.60984	36.35527	0.6306211	0.6953154	0.6286994	-0.06661597
0.001552	0.00469	23.28536	28.09222	0.8595794	0.9106513	0.8595607	-0.05109066
0.017882	0.0379	14.21393	17.47586	0.4476785	0.5173208	0.436978	-0.08034284
0.017214	0.01642	17.8463	17.64116	0.5014759	0.2974706	0.4921696	0.1946989
0.001599	0.01007	19.97147	27.9611	0.6666518	0.7501723	0.6291373	-0.121035
0.014377	0.01702	17.69128	18.42322	0.0639459	0.136724	0.0670797	-0.06964432
0.004127	6.30E-06	52.00782	23.84374	0.8693911	0.9245223	0.8650118	-0.05951048
0.005922	0.00076	31.21476	22.27535	0.0904561	0.3145419	0.4199637	0.1054218
0.000138	6.82E-05	41.66293	38.60526	0.8204654	0.8810389	0.8141397	-0.06689921
0.010204	0.00043	33.71377	19.91232	0.8823786	0.6493722	0.5263945	-0.1229778
0.023086	0.01578	18.01787	16.36658	0.2044503	0.1228972	0.1926533	0.06975608
0.000233	0.00067	31.71295	36.33164	0.5768445	0.691781	0.5627235	-0.1290576
0.029485	0.02366	16.25967	15.30402	0.1628335	0.0985343	0.1577758	0.0592415
0.003613	0.00484	23.15159	24.42188	0.2469608	0.16607	0.2393192	0.07324921
0.018342	0.00471	23.26626	17.36555	0.7356455	0.5353492	0.6564999	0.1211506
0.033735	0.02351	16.28749	14.71924	0.7955513	0.7202744	0.7929372	0.07266279
0.02688	0.00808	20.92697	15.70578	0.6853013	0.8297042	0.7382898	-0.09141438
1.16E-05	9.41E-06	50.26602	49.36923	0.3180014	0.4154079	0.3039735	-0.1114344
0.021738	0.0003	35.24822	16.6279	0.1901896	0.3352901	0.2645995	-0.07069062
0.009757	0.00616	22.10275	20.10685	0.7784786	0.8564287	0.7898331	-0.06659564
0.036345	0.01155	19.37252	14.39559	0.844674	0.7020776	0.6061649	-0.09591272
0.002645	3.92E-05	44.06387	25.77532	0.2253914	0.5120169	0.6306426	0.1186257
0.01393	0.00934	20.29786	18.56042	0.8737079	0.9335393	0.8794808	-0.05405841
0.004898	0.01271	18.95754	23.0995	0.6133878	0.7520638	0.5901455	-0.1619183
0.005657	0.00837	20.77532	22.47451	0.4431037	0.6043592	0.428437	-0.1759222
0.009823	0.0064	21.93701	20.07744	0.5708836	0.713815	0.5886866	-0.1251284
0.016303	0.00721	21.4193	17.87722	0.3236784	0.4592335	0.576143	0.1169095
0.002358	0.00014	38.61788	26.27434	0.7761654	0.6763453	0.7313845	0.0550391
0.031224	0.03094	15.0948	15.05508	0.5515654	0.6071726	0.5490641	-0.0581085
0.011321	0.00306	25.1426	19.46112	0.1686596	0.1055254	0.1591827	0.05365723
0.001521	0.01164	19.34011	28.18	0.6963455	0.7498724	0.6477876	-0.1020848

0.017546	0.02158	16.65924	17.5583	0.9030244	0.8185259	0.904745	0.08621912
0.049703	0.00096	30.17817	13.03621	0.7855361	0.3457919	0.2188932	-0.1268987
0.007968	0.00447	23.5011	20.98643	0.0882808	0.3009519	0.4768977	0.1759458
0.000562	0.00011	39.73073	32.50031	0.7750655	0.876702	0.7775862	-0.09911584
0.000248	0.00016	37.953	36.0598	0.4951888	0.5490323	0.4931006	-0.05593165
0.009247	0.00234	26.3003	20.33986	0.8078368	0.6252536	0.5116524	-0.1136012
0.000414	0.00075	31.22996	33.82788	0.1943136	0.122366	0.2103554	0.08798935
0.001154	0.00019	37.11448	29.37644	0.8681747	0.94332	0.884102	-0.05921793
7.97E-07	0.0009	30.46884	60.98597	0.2905125	0.2194816	0.3278301	0.1083485
0.006481	0.03817	14.18223	21.88374	0.6008078	0.6561006	0.5673805	-0.08872011
0.008185	0.00132	28.80831	20.86959	0.3027691	0.4397117	0.3410949	-0.09861682
0.03636	0.00104	29.81231	14.3937	0.1835991	0.2529266	0.3538336	0.100907
0.004369	0.00609	22.15178	23.59656	0.9195182	0.8546034	0.9188427	0.06423929
0.019744	0.02296	16.39079	17.04575	0.577212	0.6828001	0.5676481	-0.115152
0.000112	8.60E-05	40.65432	39.49098	0.1454021	0.0524364	0.1108063	0.05836993
0.000126	0.00519	22.84774	39.00349	0.4252266	0.5111242	0.3623272	-0.148797
0.021894	0.0028	25.52691	16.59679	0.7520636	0.5687253	0.4717405	-0.09698489
0.000236	0.00033	34.85935	36.27055	0.3970139	0.2914996	0.384025	0.09252542
0.03925	0.0004	34.02147	14.06159	0.816795	0.6571175	0.7155802	0.05846276
0.041226	0.03102	15.08345	13.84828	0.8860202	0.7371807	0.8788576	0.1416768
0.036112	0.02046	16.89199	14.42352	0.7987877	0.7097642	0.7831662	0.07340203
0.005508	0.00973	20.12038	22.59012	0.6873568	0.8143017	0.6655653	-0.1487364
0.008255	0.00094	30.27578	20.83307	0.8580734	0.7849013	0.8416864	0.05678508
0.001525	0.00204	26.89744	28.16792	0.2444708	0.1134923	0.2541559	0.1406636
0.04474	0.00249	26.03594	13.49302	0.7304639	0.8523664	0.7956763	-0.05669013
0.016202	0.01064	19.72942	17.9044	0.7385129	0.6539404	0.5804173	-0.07352307
0.000279	0.00172	27.64546	35.53975	0.7686039	0.8659001	0.7317434	-0.1341567
0.000723	0.00071	31.50166	31.4089	0.1217266	0.0645872	0.1174801	0.05289293
0.006483	0.01142	19.42424	21.88217	0.9442673	0.7789586	0.6213966	-0.157562
0.001413	0.00088	30.57549	28.49794	0.6569195	0.8372921	0.6816992	-0.155593
0.007691	8.87E-05	40.51865	21.14017	0.6820144	0.9185229	0.8425536	-0.07596926
0.044978	0.01852	17.32372	13.46996	0.070783	0.2090572	0.3089797	0.09992252
0.008915	0.00244	26.1342	20.49897	0.1378413	0.2849595	0.4157392	0.1307797
0.005575	0.00493	23.06846	22.53752	0.821914	0.8947721	0.8092464	-0.08552577
0.000387	0.00019	37.20094	34.12025	0.4446476	0.5616907	0.4522329	-0.1094578
0.000712	7.95E-06	50.99828	31.47781	0.1746117	0.1079184	0.1582504	0.05033203
0.0343	0.00356	24.48027	14.64711	0.8750424	0.6420937	0.7674533	0.1253596
0.000144	0.00034	34.64293	38.40331	0.7245178	0.7885067	0.7293662	-0.05914047
0.035155	0.02352	16.28545	14.54018	0.6190725	0.6838717	0.6267835	-0.05708811
0.000102	0.00033	34.7933	39.8997	0.5673041	0.8266926	0.5824452	-0.2442475
0.023307	0.00121	29.16005	16.32505	0.3328182	0.2188344	0.2989596	0.08012525
0.007133	0.00433	23.63548	21.46752	0.0480589	0.195035	0.0880408	-0.1069941
0.004592	0.0105	19.78916	23.37987	0.7845006	0.8413993	0.7734128	-0.06798639
0.017549	4.64E-05	43.33626	17.55757	0.7195627	0.482943	0.4023755	-0.08056756
0.019372	0.01028	19.88203	17.12829	0.8327934	0.7286879	0.6246003	-0.1040876
0.037093	0.04066	13.90815	14.30709	0.9148281	0.8480557	0.7761952	-0.0718605
0.001174	0.00155	28.09681	29.30315	0.6346549	0.7764006	0.6097885	-0.1666121
0.01348	0.00057	32.46051	18.70306	0.8378019	0.7138224	0.7769986	0.06317632
0.007564	0.00233	26.32154	21.21259	0.1444315	0.244266	0.1530045	-0.09126151
0.008111	0.00794	21.00086	20.90941	0.1815854	0.0915383	0.1742619	0.0827236
1.15E-05	1.55E-05	48.08515	49.38687	0.7316366	0.8796755	0.7426333	-0.1370422
0.032448	0.01606	17.94346	14.88812	0.8990401	0.7754462	0.6222165	-0.1532297
3.09E-06	1.31E-05	48.83936	55.10443	0.7194949	0.8219972	0.7172626	-0.1047346
0.025549	0.00383	24.17316	15.9262	0.8102294	0.6955289	0.7734627	0.07793374

0.011126	0.00153	28.1627	19.53651	0.8195949	0.6623706	0.5558349	-0.1065357
0.027675	4.83E-06	53.15672	15.57909	0.740116	0.4603964	0.5217628	0.06136638
0.002948	1.89E-05	47.23577	25.30451	0.5950391	0.4249684	0.4816568	0.05668838
0.040278	0.00991	20.03948	13.94934	0.8087178	0.6428338	0.7461336	0.1032998
0.016454	3.31E-05	44.80291	17.83739	0.8693561	0.9518293	0.8136376	-0.1381918
0.035323	0.0281	15.51302	14.51943	0.8878455	0.8175935	0.8827142	0.06512067
0.028394	0.02924	15.3401	15.46777	0.5516817	0.646207	0.5494668	-0.09674013
0.028816	0.00314	25.03419	15.40364	0.6240525	0.8266706	0.7179567	-0.1087139
0.013032	0.00192	27.16313	18.84984	0.9443429	0.794781	0.6994239	-0.09535708
0.000107	1.93E-05	47.13682	39.70793	0.1650485	0.0761168	0.1437618	0.06764505
0.011123	0.00089	30.49253	19.53786	0.7377793	0.5939171	0.5136842	-0.08023293
0.009655	0.00897	20.47437	20.15256	0.8279371	0.9167214	0.8308545	-0.08586695
0.025851	0.0145	18.38621	15.87523	0.83617	0.7315227	0.6453333	-0.08618933
0.008188	0.02328	16.33085	20.8682	0.1113548	0.1790836	0.2688248	0.08974118
0.006788	1.38E-05	48.59518	21.68253	0.7840303	0.5446679	0.6318494	0.08718152
0.025727	8.21E-05	40.85575	15.89604	0.4711164	0.7162696	0.7973298	0.08106028
0.023892	0.00285	25.45197	16.21748	0.8966048	0.6719885	0.7964168	0.1244282
0.036707	0.00305	25.15443	14.35248	0.8691109	0.7369006	0.6639161	-0.07298443
0.006105	0.01052	19.78111	22.1429	0.7556592	0.8272567	0.7493515	-0.07790521
0.042403	0.00043	33.62976	13.72605	0.8376518	0.5635459	0.6633258	0.09977999
0.006711	1.39E-05	48.55949	21.73234	0.2261794	0.7967269	0.5810972	-0.2156298
0.001781	9.86E-05	40.06291	27.49382	0.4299419	0.7332309	0.6177563	-0.1154746
0.007022	0.00907	20.42522	21.53544	0.120019	0.1729967	0.27443	0.1014333
0.01702	0.04346	13.61897	17.69033	0.6794039	0.7350648	0.660096	-0.07496877
0.003018	0.00351	24.54854	25.20236	0.2421093	0.146531	0.245195	0.098664
0.007807	0.00361	24.42591	21.07535	0.8573384	0.7115943	0.835766	0.1241717
0.001833	3.85E-05	44.14638	27.36946	0.761026	0.8227565	0.7695154	-0.05324115
0.035903	0.00866	20.62611	14.44874	0.2358244	0.152136	0.2294424	0.07730642
0.008461	0.0071	21.48696	20.72593	0.8298312	0.7737917	0.8242708	0.05047912
2.38E-05	9.52E-06	50.2149	46.23677	0.091294	0.0302826	0.0859021	0.05561953
0.027267	0.0137	18.63154	15.64363	0.8882811	0.7519514	0.8602208	0.1082694
0.000327	0.00043	33.70305	34.85113	0.0999765	0.0472814	0.1007031	0.05342168
0.043079	0.00445	23.51208	13.65732	0.7781174	0.6349996	0.7057802	0.07078063
0.004775	0.01684	17.73575	23.20986	0.6813179	0.7706	0.654963	-0.115637
0.000181	0.00152	28.17811	37.4115	0.7045751	0.8099805	0.6970274	-0.1129531
5.14E-05	1.47E-06	58.33217	42.88782	0.1577557	0.0553774	0.1344506	0.07907324
0.000604	0.00711	21.48167	32.18988	0.7037948	0.7718316	0.6377723	-0.1340593
0.036491	0.0384	14.15637	14.37816	0.5031546	0.6570402	0.4983819	-0.1586583
0.047956	0.01825	17.38675	13.19162	0.8021155	0.7061717	0.621308	-0.08486369
0.006244	0.01949	17.10207	22.04546	0.9006807	0.8360559	0.7329211	-0.1031349
4.30E-07	7.80E-06	51.0783	63.66346	0.2594121	0.1128025	0.2318816	0.1190791
0.004343	0.00388	24.10818	23.62219	0.7693164	0.8647876	0.7834213	-0.08136631
0.006715	0.00476	23.22839	21.72934	0.5185262	0.5839006	0.5221281	-0.06177247
0.01017	0.01429	18.44981	19.9266	0.9183876	0.8334863	0.7454251	-0.08806115
0.000613	4.25E-05	43.7205	32.12666	0.3139055	0.1661166	0.2865993	0.1204827
0.013484	0.0126	18.99719	18.70171	0.8770911	0.7616875	0.6235642	-0.1381232
5.59E-05	0.0002	36.94264	42.5228	0.236539	0.0968923	0.2131101	0.1162178
0.004479	0.00242	26.16356	23.48799	0.1820057	0.0958043	0.1733406	0.07753634
0.000121	0.00115	29.3842	39.15811	0.5596168	0.6252208	0.5582823	-0.06693853
0.005267	0.00115	29.40757	22.78469	0.8724721	0.7261976	0.8323699	0.1061722
0.003588	0.01706	17.68068	24.45117	0.7306525	0.7943084	0.6888362	-0.1054722
0.002286	0.00493	23.06969	26.40834	0.6315254	0.7849633	0.6287329	-0.1562304
0.004196	0.00015	38.22851	23.77119	0.3218043	0.1898723	0.2633086	0.07343628
0.046289	0.02114	16.74966	13.34518	0.2988875	0.1883785	0.2677694	0.07939084

1.93E-05	1.75E-06	57.57934	47.14894	0.1164031	0.0502561	0.1013664	0.05111034
8.84E-05	0.00113	29.46338	40.53542	0.6112362	0.6713929	0.5790448	-0.09234807
0.039193	0.04204	13.76291	14.06789	0.792942	0.7200309	0.6454692	-0.07456174
0.025241	0.02862	15.43262	15.97895	0.6612113	0.7673339	0.6640148	-0.1033191
0.006927	0.01807	17.43078	21.59436	0.7254776	0.6683428	0.7290416	0.06069882
0.000305	0.00707	21.50711	35.16262	0.1866914	0.1290182	0.2444448	0.1154298
0.01125	0.01251	19.02713	19.48859	0.7882798	0.6928706	0.796988	0.1041174
0.002674	0.00337	24.72324	25.72768	0.1780893	0.0953228	0.1678652	0.07254244
0.000351	0.00267	25.73406	34.54569	0.2428014	0.1831373	0.260412	0.07727478
0.011547	0.00587	22.31644	19.37526	0.2774453	0.2073455	0.2677443	0.06039882
0.023668	0.00017	37.81633	16.2583	0.7934428	0.5388841	0.6506971	0.111813
0.040616	0.00099	30.04975	13.913	0.7644026	0.6588472	0.7101697	0.05132254
0.001175	0.00262	25.82084	29.29988	0.7681281	0.9058261	0.7618356	-0.1439905
0.003602	0.02237	16.50391	24.435	0.7133664	0.7655735	0.6856949	-0.07987864
0.013436	0.02071	16.83896	18.71722	0.8248011	0.7151573	0.537584	-0.1775733
0.010681	0.00989	20.04886	19.71402	0.5370874	0.6769677	0.5339159	-0.1430519
0.009363	0.01333	18.75237	20.28568	0.0751366	0.1794863	0.0764962	-0.1029901
0.010979	0.0055	22.59683	19.59423	0.7218565	0.8286417	0.7404925	-0.08814923
0.014387	0.01834	17.36574	18.42027	0.0654008	0.1205791	0.0613494	-0.05922969
0.042202	2.79E-06	55.54046	13.74669	0.4512084	0.2835536	0.2276033	-0.05595027
0.015997	0.04253	13.71268	17.9596	0.8048956	0.7461768	0.8305213	0.08434453
0.03592	0.04959	13.04588	14.44661	0.7453654	0.5703363	0.3757713	-0.194565
0.001506	0.00287	25.42359	28.22088	0.7629213	0.8684286	0.7596762	-0.1087525
0.02934	0.03696	14.32315	15.32535	0.8998433	0.7408746	0.577467	-0.1634077
0.000218	0.00167	27.78113	36.62337	0.6555467	0.7333117	0.5903997	-0.1429119
0.015286	0.04421	13.54496	18.15704	0.9097757	0.8425177	0.7442037	-0.09831395
0.01093	0.00528	22.77418	19.61377	0.786212	0.8618746	0.7965102	-0.06536443
0.049298	0.002	26.98168	13.07173	0.8105198	0.8960754	0.8419508	-0.05412463
0.019382	0.01469	18.32979	17.12597	0.8155199	0.7385458	0.8102681	0.07172238
0.020186	0.00906	20.4289	16.94946	0.5405498	0.7131382	0.5885103	-0.1246278
0.012563	2.39E-07	66.21188	19.00905	0.2345431	0.6712211	0.7503309	0.07910974
0.024694	0.00012	39.24328	16.07401	0.1139521	0.4094644	0.3029512	-0.1065132
0.034868	0.01794	17.46118	14.57568	0.8200433	0.7112011	0.7967474	0.08554632
0.002172	0.00066	31.77528	26.63086	0.1234603	0.059024	0.1121701	0.05314613
0.020712	4.12E-06	53.85078	16.83781	0.7746641	0.6007471	0.6742847	0.07353758
0.000125	5.64E-05	42.48434	39.04029	0.0906955	0.0150713	0.0844216	0.06935027
0.048793	0.00921	20.35539	13.11644	0.2105642	0.3481271	0.4591332	0.1110061
0.048328	0.01224	19.12142	13.158	0.936164	0.7739568	0.6770998	-0.09685702
0.043199	0.00078	31.07108	13.64523	0.1021003	0.4686679	0.5808924	0.1122245
0.046804	0.00178	27.50467	13.29713	0.8259372	0.5904319	0.4999652	-0.09046678
0.020895	0.00928	20.32558	16.7995	0.6973019	0.7758296	0.7110421	-0.06478748
7.50E-05	1.31E-05	48.81154	41.24741	0.1977923	0.1254388	0.1852677	0.05982897
0.004084	0.00602	22.2011	23.88951	0.2899334	0.158256	0.2842986	0.1260426
0.031596	0.00572	22.42546	15.00373	0.8188722	0.6476175	0.7504853	0.1028678
0.018769	0.00882	20.54674	17.26567	0.8899114	0.7538823	0.8704098	0.1165275
0.006728	0.03652	14.37433	21.72141	0.8464394	0.7823822	0.6869484	-0.09543394
0.037937	0.01213	19.16195	14.20941	0.8537798	0.6745611	0.8055643	0.1310032
0.000511	0.00033	34.75896	32.91311	0.2038918	0.0682406	0.1747509	0.1065103
0.025907	0.00249	26.03415	15.86576	0.8115313	0.7029521	0.7605613	0.05760917
0.026447	0.03661	14.36449	15.77625	0.5997371	0.6627045	0.5940678	-0.06863666
0.004326	0.00384	24.16008	23.63926	0.1958504	0.1208237	0.2144331	0.09360938
0.011605	0.00237	26.25623	19.35348	0.5833148	0.6765718	0.6101	-0.06647182
0.035578	2.15E-06	56.67493	14.48813	0.0986209	0.471979	0.5239809	0.05200198
0.017528	0.01577	18.02041	17.56274	0.3185672	0.2471654	0.3142745	0.06710906

0.013904	0.01964	17.06867	18.56869	0.4924448	0.6343261	0.4765094	-0.1578168
0.000786	0.00051	32.89019	31.04646	0.7321697	0.8922364	0.7640192	-0.1282172
0.001437	0.002	26.99105	28.42615	0.5169023	0.6520488	0.520212	-0.1318368
2.14E-05	0.00024	36.28555	46.6872	0.5695891	0.6613147	0.571753	-0.08956171
0.00095	0.0028	25.52785	30.22433	0.5377903	0.67382	0.5297856	-0.1440344
0.007327	0.00014	38.44073	21.35079	0.8609179	0.7706447	0.6778336	-0.0928111
0.016717	0.0252	15.98537	17.76836	0.7961802	0.8945794	0.7813249	-0.1132545
9.55E-06	0.00129	28.9031	50.20047	0.750213	0.8244424	0.7463489	-0.07809354
3.32E-05	9.43E-05	40.25646	44.78252	0.5804324	0.7736141	0.5742092	-0.1994049
0.021014	0.03051	15.15538	16.77501	0.8833224	0.8269638	0.7201056	-0.1068582
5.33E-05	0.00011	39.51994	42.73282	0.6718224	0.7602041	0.6895743	-0.07062976
0.025579	0.00032	34.92465	15.92118	0.8071795	0.5482538	0.4325674	-0.1156863
0.013295	0.01438	18.42278	18.76303	0.0627056	0.1500805	0.267794	0.1177135
0.012109	0.00368	24.34339	19.16902	0.8934489	0.7805052	0.6851964	-0.09530885
0.006207	0.04828	13.1622	22.07133	0.8728173	0.7843108	0.6394168	-0.1448939
0.008927	0.02461	16.08965	20.49286	0.7495878	0.8092602	0.7343075	-0.07495279
0.043436	0.04663	13.31349	13.62153	0.9151028	0.8600575	0.9156124	0.05555486
0.002957	0.00073	31.34595	25.29156	0.7628828	0.5751286	0.4137129	-0.1614156
0.016549	0.01445	18.39996	17.81222	0.9347669	0.8808615	0.9323367	0.05147522
0.009913	0.00819	20.86859	20.03796	0.8282316	0.9057232	0.8330259	-0.07269738
0.004889	0.00168	27.75499	23.10806	0.7711771	0.6605738	0.7475045	0.08693063
0.02547	0.00478	23.20937	15.93968	0.7964335	0.5848984	0.732631	0.1477327
0.021193	0.00655	21.84029	16.73804	0.8750827	0.795599	0.8489045	0.05330546
0.001821	1.77E-07	67.52025	27.39647	0.2223526	0.6261975	0.7182554	0.09205786
0.026049	0.00095	30.23386	15.84208	0.7739515	0.5840213	0.6860063	0.101985
0.043297	0.00052	32.83865	13.63538	0.1567826	0.5386947	0.4101595	-0.1285352
0.04252	0.01531	18.15132	13.71411	0.8807912	0.7756594	0.8464132	0.07075379
0.037486	0.00173	27.61773	14.26129	0.0833614	0.1871832	0.2437313	0.05654811
0.040986	0.03012	15.21202	13.87361	0.7862814	0.8733622	0.7981261	-0.07523607
1.93E-05	0.00021	36.75056	47.13884	0.1660892	0.112412	0.1645148	0.05210284
0.042627	0.01143	19.41932	13.70318	0.7325228	0.5758988	0.670865	0.09496616
8.32E-06	0.00018	37.52988	50.79653	0.1434133	0.0876415	0.160354	0.0727125
0.042281	0.00084	30.77013	13.73858	0.059165	0.4053738	0.522601	0.1172271
6.00E-05	0.00018	37.50557	42.21698	0.7081769	0.8581714	0.6928199	-0.1653515
0.036016	0.03167	14.99394	14.43506	0.7749184	0.6902282	0.7681066	0.07787846
0.021438	0.04608	13.36443	16.68816	0.7676171	0.8342806	0.7484874	-0.08579321
0.042221	0.00962	20.16784	13.74469	0.8408674	0.759021	0.6753055	-0.08371556
0.019503	0.04426	13.54037	17.09904	0.2414607	0.3134431	0.4175121	0.104069
0.001354	0.00747	21.26965	28.68431	0.8542144	0.9222555	0.8355887	-0.08666682
0.00825	0.00893	20.4895	20.83539	0.8049961	0.7476542	0.6639897	-0.08366457
0.038018	0.00015	38.1645	14.20006	0.8339005	0.5565639	0.6407049	0.08414096
0.00053	0.00027	35.76294	32.75396	0.1469187	0.0865246	0.1450247	0.05850013
0.01033	0.00535	22.71849	19.85912	0.6943032	0.8373796	0.7047823	-0.1325973
0.043814	0.04296	13.66978	13.58385	0.6058454	0.5400454	0.6039918	0.06394641
0.000571	0.00019	37.25136	32.4341	0.2647902	0.1602903	0.2411942	0.08090393
0.015057	0.00104	29.81399	18.22273	0.08449	0.3563512	0.4852075	0.1288564
0.031778	0.03941	14.04382	14.97877	0.4839909	0.5435205	0.4766368	-0.06688364
0.021355	0.02041	16.90085	16.70501	0.7838723	0.8733068	0.7906445	-0.08266227
0.001215	0.00167	27.76762	29.1535	0.8007931	0.7249287	0.8074246	0.08249588
0.012922	0.0044	23.5643	18.88654	0.7791541	0.641956	0.7209192	0.07896324
0.029415	0.02985	15.25091	15.3143	0.2176607	0.1405147	0.219948	0.07943333
0.014412	0.02544	15.94423	18.41281	0.8133119	0.8748598	0.8014871	-0.07337261
0.01224	0.00962	20.16879	19.12236	0.8558075	0.9346311	0.8528256	-0.08180548
0.000523	1.05E-06	59.77489	32.81091	0.1255388	0.0259878	0.0876955	0.06170769



0.016969	0.00107	29.69099	17.70356	0.8518995	0.7865983	0.6717458	-0.1148525
0.035725	0.0301	15.21413	14.47024	0.9102038	0.8118174	0.9023345	0.09051706
0.007291	0.00781	21.07543	21.37233	0.2678229	0.1500439	0.2655681	0.1155241
0.003533	0.00343	24.64734	24.51828	0.7584925	0.8192788	0.7341069	-0.08517186
0.02274	0.00598	22.23346	16.43202	0.8505256	0.7600423	0.8199228	0.05988053
0.045753	0.00092	30.3791	13.39578	0.0576213	0.2161129	0.3109986	0.09488574
0.031647	0.01571	18.03782	14.99673	0.716698	0.7959781	0.720477	-0.07550105
0.047098	0.02398	16.20117	13.26999	0.8007463	0.7375292	0.7883685	0.0508394
0.034595	0.00013	38.84651	14.60981	0.1285187	0.2373656	0.3618399	0.1244743
0.015959	0.02544	15.94556	17.96988	0.764169	0.8434827	0.7562767	-0.08720604
0.008552	0.0033	24.81733	20.67922	0.9040542	0.8310679	0.8860981	0.05503023
0.01118	7.29E-05	41.37541	19.51562	0.8370726	0.7477635	0.8125958	0.06483237
0.022247	0.00427	23.69576	16.5272	0.9026999	0.8040419	0.8664084	0.0623665
0.033509	0.00185	27.32441	14.74841	0.2081221	0.5143203	0.6325067	0.1181865
0.046682	0.01392	18.56287	13.30848	0.7737398	0.8565714	0.7975793	-0.05899214
0.029758	0.0075	21.25026	15.26396	0.889838	0.7547181	0.8522226	0.09750451
0.029589	0.03852	14.14325	15.28872	0.8697875	0.9222078	0.8665748	-0.05563294
0.011152	0.00071	31.50011	19.52649	0.0834061	0.2928743	0.4341861	0.1413119
0.003645	0.01194	19.2303	24.38323	0.7525987	0.8886709	0.7376283	-0.1510426
0.039781	0.01032	19.8633	14.00326	0.713963	0.5960174	0.5218744	-0.0741429
0.009855	0.00602	22.2066	20.06337	0.7151284	0.5273621	0.4218491	-0.1055131
0.021568	2.76E-05	45.59635	16.66183	0.1846037	0.4940539	0.5458956	0.05184172
0.048286	0.02024	16.93757	13.16175	0.7390366	0.5740552	0.6928142	0.118759
0.043622	0.00297	25.27372	13.60296	0.8676024	0.7494662	0.8123529	0.06288664
0.015249	0.03369	14.72539	18.16764	0.0973142	0.176555	0.2716205	0.09506547
0.026783	0.00063	32.0049	15.7214	0.6878613	0.83319	0.7673379	-0.06585207
0.034567	0.01099	19.58978	14.6134	0.6470985	0.509926	0.5890884	0.07916248
0.009532	0.0024	26.1973	20.20805	0.8238715	0.7094272	0.7901607	0.08073338
0.026874	0.01277	18.93837	15.70664	0.4257443	0.3549648	0.29632	-0.0586448
0.021956	0.01886	17.24386	16.58446	0.7644329	0.8410134	0.7667991	-0.07421435
0.043505	0.01754	17.56027	13.61459	0.7224674	0.7947901	0.738825	-0.05596513
0.017645	0.0017	27.69195	17.53385	0.1197899	0.2182254	0.3065625	0.08833713
4.13E-05	2.78E-05	45.55325	43.83614	0.7162156	0.8114263	0.7045075	-0.1069188
0.037232	0.01708	17.67504	14.29083	0.3892533	0.47837	0.5485185	0.07014855
0.025895	0.01538	18.13099	15.86785	0.8871048	0.8077749	0.7464933	-0.06128161
4.77E-05	1.52E-05	48.17981	43.21625	0.708282	0.7847896	0.719184	-0.06560558
0.046742	0.03183	14.97181	13.3029	0.779096	0.8528028	0.7875266	-0.06527619
0.015374	0.00042	33.80771	18.13215	0.6895242	0.5196946	0.6032311	0.08353655
0.021651	0.00342	24.6545	16.6453	0.8546676	0.7570326	0.8151814	0.05814883
0.000125	0.0005	33.02481	39.02252	0.5713648	0.6582941	0.558589	-0.09970509
6.43E-05	5.94E-05	42.26213	41.91652	0.1290049	0.0667854	0.1212794	0.05449401
0.004677	0.00503	22.98201	23.30018	0.4498174	0.5874287	0.4492298	-0.1381989
0.000412	0.00035	34.50507	33.8466	0.7728547	0.8417428	0.7713594	-0.07038336
0.03214	0.03318	14.79138	14.92956	0.5323338	0.5957255	0.5304427	-0.06528277
0.010302	0.00051	32.92097	19.8708	0.0640476	0.3334689	0.5342814	0.2008125
0.000785	0.00012	39.26084	31.05311	0.2291531	0.1020052	0.1957565	0.09375124
4.31E-07	1.11E-06	59.55386	63.65149	0.3249755	0.4450683	0.3206196	-0.1244486
0.005442	0.01319	18.7975	22.64265	0.0926608	0.1905453	0.3066137	0.1160684
0.038033	0.00083	30.82254	14.19837	0.6545953	0.4572399	0.3671266	-0.09011337
0.006415	0.03638	14.39151	21.92824	0.5752042	0.641035	0.5406806	-0.1003544
0.006977	0.00219	26.5879	21.56311	0.8141617	0.7215509	0.7986837	0.07713278
0.003183	0.00187	27.29088	24.97122	0.676028	0.7583066	0.673189	-0.08511753
0.046316	0.00554	22.56845	13.34268	0.1972831	0.139521	0.2334235	0.09390247
0.000366	0.00051	32.96404	34.36698	0.5929802	0.7211738	0.5994337	-0.1217401

0.044478	0.01722	17.6404	13.51853	0.8303896	0.727598	0.6484253	-0.07917259
0.033902	1.65E-06	57.8325	14.69777	0.8915736	0.6319687	0.5244219	-0.1075469
0.005814	0.0021	26.77577	22.35517	0.7857108	0.515944	0.3408348	-0.1751092
0.022382	0.00212	26.74494	16.50095	0.0920161	0.3955515	0.5283791	0.1328276
0.003712	0.00199	27.01868	24.30398	0.7604408	0.8113521	0.7596574	-0.05169475
0.032403	0.01857	17.31089	14.8942	0.8951451	0.8201337	0.8817193	0.06158562
0.00205	0.00668	21.7506	26.8823	0.7787892	0.8470402	0.7606382	-0.08640195
0.018585	0.02127	16.72139	17.30835	0.6556633	0.4666209	0.6575608	0.1909399
0.00847	0.0027	25.68286	20.72122	0.5900123	0.667056	0.6043351	-0.06272096
6.91E-05	0.00049	33.0842	41.60732	0.704532	0.8112952	0.6680261	-0.143269
0.049475	2.98E-05	45.26327	13.05612	0.7111018	0.3639948	0.2808179	-0.08317694
0.008891	0.0021	26.78523	20.51064	0.8303077	0.62981	0.5078337	-0.1219763
0.03804	0.01423	18.46719	14.19765	0.6233935	0.4563062	0.5408505	0.08454429
0.034746	0.04023	13.95446	14.59101	0.6106618	0.7135656	0.6043183	-0.1092474
0.038237	6.86E-05	41.63554	14.17515	0.8203954	0.5207254	0.6159373	0.09521186
0.014737	0.02249	16.47925	18.31577	0.5577333	0.6546857	0.5534411	-0.1012446
5.57E-05	1.64E-05	47.85584	42.54343	0.2268859	0.1031441	0.2045344	0.1013903
0.014745	0.0033	24.8186	18.3136	0.7610705	0.6849614	0.7402199	0.0552585
0.009921	0.03808	14.19302	20.03449	0.6527597	0.7418247	0.6136053	-0.1282193
0.027068	0.02218	16.54083	15.67548	0.630452	0.7005638	0.6323408	-0.068223
0.021741	0.00017	37.59496	16.62721	0.0586552	0.2581941	0.3343766	0.07618254
0.032137	0.02543	15.94595	14.92991	0.699066	0.7774693	0.7075335	-0.06993575
0.018394	2.72E-05	45.65042	17.35325	0.3067404	0.7800772	0.8336039	0.05352665
2.71E-06	2.23E-05	46.51366	55.66376	0.8125659	0.9095027	0.7849327	-0.1245701
0.037123	0.02528	15.97144	14.30358	0.8530127	0.9102073	0.8580003	-0.05220703
0.001802	8.73E-06	50.58819	27.44211	0.3350753	0.6075249	0.7232481	0.1157232
0.010826	0.00117	29.32576	19.65547	0.1383458	0.1962572	0.3241816	0.1279244
0.000898	0.002	26.98359	30.46955	0.6909919	0.748728	0.6863073	-0.06242073
0.047231	5.41E-05	42.66655	13.25775	0.7382808	0.5126135	0.5875032	0.07488971
0.039252	0.00049	33.11918	14.06138	0.7943041	0.5179945	0.4433618	-0.0746326
0.002406	1.22E-05	49.14703	26.18773	0.5920536	0.7310836	0.6806319	-0.0504516
0.029004	0.00681	21.66899	15.37544	0.6336178	0.4565426	0.3969696	-0.05957308
0.006775	0.01625	17.89215	21.6906	0.8676024	0.7535498	0.6261466	-0.1274033
0.037446	0.03291	14.82731	14.26596	0.7126955	0.8333614	0.7223848	-0.1109766
0.008976	0.00694	21.58925	20.46898	0.79343	0.8544597	0.7956197	-0.05884003
0.04707	0.02122	16.73198	13.27253	0.0467825	0.2714617	0.1001682	-0.1712935
0.000915	0.00109	29.63153	30.38669	0.7918468	0.8424366	0.7726975	-0.0697391
8.65E-05	0.00034	34.65292	40.6307	0.5199167	0.6030278	0.4850632	-0.1179646
0.005452	0.00901	20.45473	22.6344	0.909033	0.9606115	0.8977457	-0.06286588
0.012865	0.00522	22.82532	18.90602	0.7131603	0.8515552	0.7387297	-0.1128254
0.001442	0.00026	35.85394	28.41103	0.1288651	0.0768332	0.1281816	0.05134839
0.000295	0.00056	32.54063	35.30681	0.2694363	0.082042	0.2498786	0.1678366
0.014209	0.01207	19.18161	18.47444	0.6763473	0.5925847	0.6471157	0.05453097
0.002043	0.00942	20.25922	26.89696	0.7889078	0.8546476	0.6901296	-0.164518
0.045594	0.04811	13.17722	13.41093	0.0427224	0.1003705	0.207847	0.1074765
0.002803	0.00272	25.64967	25.52305	0.8752168	0.7640867	0.6621234	-0.1019632
0.016222	0.0143	18.44535	17.89887	0.7653647	0.6712616	0.7614765	0.09021481
0.00734	9.52E-05	40.21139	21.34328	0.8164756	0.710304	0.7681999	0.05789593
0.004338	0.00421	23.76195	23.62677	0.824924	0.7608485	0.6976603	-0.06318817
0.010654	0.00146	28.34601	19.72491	0.7723309	0.6783478	0.5794964	-0.09885149
0.039615	0.02066	16.84833	14.02145	0.1758758	0.0854844	0.1581565	0.07267214
0.02616	0.00101	29.93983	15.82365	0.8368269	0.5789601	0.4567035	-0.1222566
0.006591	0.00118	29.27384	21.81063	0.9012849	0.8041195	0.6474751	-0.1566445
0.045352	0.03657	14.36926	13.43407	0.8453999	0.790905	0.8426362	0.05173115

0.043921	0.03872	14.12059	13.57329	0.6683286	0.7702949	0.6763519	-0.09394296
0.036724	0.01493	18.2594	14.35053	0.8140126	0.8768963	0.8265764	-0.05031994
0.018166	0.01074	19.69157	17.40738	0.8933183	0.7630515	0.8683617	0.1053101
0.047595	0.03054	15.15129	13.22442	0.1301904	0.1832785	0.2382705	0.05499202
0.001125	0.00443	23.53492	29.48975	0.6570728	0.7923694	0.6410372	-0.1513322
0.04836	0.04263	13.7024	13.15512	0.7432277	0.8033925	0.7463583	-0.05703422
0.038417	0.00317	24.98655	14.15475	0.9222343	0.8488457	0.7953867	-0.05345901
0.017988	0.01997	16.99541	17.45008	0.6852983	0.8192548	0.6841112	-0.1351436
0.036902	0.01786	17.48182	14.32953	0.4204051	0.2811145	0.3966856	0.1155711
0.012861	0.01964	17.0678	18.90719	0.8280803	0.8826579	0.8173682	-0.0652897
2.44E-05	1.05E-05	49.78265	46.12717	0.8800731	0.9518566	0.8881593	-0.06369725
0.000171	8.05E-08	70.94266	37.66931	0.3989928	0.6051648	0.5301322	-0.07503264
0.019413	0.00598	22.23144	17.11899	0.914649	0.6626433	0.5034932	-0.15915
0.047049	0.01033	19.85966	13.27454	0.062289	0.1594439	0.2343657	0.07492185
0.006168	2.98E-06	55.25726	22.09875	0.9179328	0.7961335	0.8549977	0.05886422
0.041387	0.00582	22.35297	13.83138	0.843164	0.6239629	0.51855	-0.1054129
0.015773	0.0018	27.44834	18.02092	0.8927852	0.8070735	0.7444634	-0.06261007
0.000304	7.18E-05	41.43842	35.1705	0.7965499	0.8901969	0.8149221	-0.07527485
0.002598	8.72E-06	50.59325	25.85367	0.6818435	0.7597712	0.7036528	-0.05611838
8.64E-06	0.00033	34.81065	50.63465	0.8735117	0.9243827	0.8522918	-0.07209098
0.004963	1.34E-08	78.73364	23.04298	0.0922734	0.6568206	0.7250305	0.06820992
0.012679	0.0028	25.52115	18.96931	0.2024568	0.094784	0.1732949	0.07851087
0.006461	0.01069	19.71044	21.89683	0.6544577	0.790419	0.6427376	-0.1476814
0.000229	0.00027	35.618	36.39844	0.7443661	0.8804429	0.7667903	-0.1136526
0.000888	0.0011	29.58756	30.51545	0.6443509	0.406415	0.5561119	0.1496969
0.022567	0.01509	18.21301	16.46534	0.7370407	0.8360955	0.7545376	-0.08155787
0.032065	0.04031	13.94611	14.93972	0.9034659	0.842558	0.9040781	0.06152015
0.000162	0.00057	32.4562	37.91399	0.7016849	0.8376818	0.7122064	-0.1254754
0.036903	0.02203	16.57025	14.32942	0.5187705	0.6553095	0.5434996	-0.1118098
0.00372	0.00201	26.97517	24.29502	0.8160774	0.9132255	0.8236331	-0.08959235
0.036409	0.0365	14.37704	14.3879	0.7028894	0.7926255	0.7091346	-0.08349086
0.000213	0.00011	39.75117	36.72438	0.2387482	0.1528477	0.2358093	0.08296161
0.000737	0.00039	34.12435	31.32261	0.5837119	0.7727889	0.5814986	-0.1912903
0.000184	0.00034	34.65163	37.35746	0.5706049	0.6351386	0.5612266	-0.07391199
0.004065	0.00011	39.64406	23.90984	0.8096317	0.6897892	0.6115862	-0.07820312
0.032459	0.00344	24.63444	14.88663	0.3474206	0.5321724	0.6430362	0.1108638
2.57E-05	0.00035	34.58421	45.89308	0.8974972	0.9536802	0.8800364	-0.0736438
0.001829	0.00374	24.26873	27.3772	0.477677	0.5454575	0.4740942	-0.07136328
0.035111	0.00309	25.10108	14.54551	0.8291463	0.5048941	0.3654809	-0.1394132
0.014459	0.03308	14.80429	18.39848	0.887849	0.8361046	0.8955902	0.05948562
0.021333	0.0139	18.57053	16.70938	0.8569885	0.7635538	0.8377728	0.07421903
0.025736	0.02074	16.83232	15.89452	0.8294926	0.7460752	0.822801	0.07672577
0.032953	0.00188	27.25339	14.82099	0.1731093	0.4527743	0.5562763	0.103502
0.000957	6.29E-06	52.01099	30.19021	0.0624164	0.1979545	0.3392544	0.1412999
0.000119	5.52E-05	42.5836	39.25482	0.529466	0.4077123	0.5158648	0.1081524
0.032962	0.04282	13.68334	14.81986	0.6496974	0.7041059	0.6454088	-0.05869704
0.035783	0.00239	26.2231	14.46322	0.82013	0.6759518	0.5564429	-0.1195089
0.016397	0.00132	28.78931	17.8524	0.6902155	0.5216179	0.4305903	-0.09102763
0.010861	0.03639	14.39037	19.64142	0.3072399	0.2014541	0.340403	0.1389489
0.021164	0.00034	34.64635	16.74395	0.7385562	0.6236606	0.5443677	-0.07929292
0.044319	0.00845	20.72901	13.53406	0.8761366	0.8227535	0.7630693	-0.05968424
0.002609	0.00609	22.15356	25.83506	0.6715881	0.8026446	0.6723109	-0.1303337
0.01407	0.03034	15.17967	18.51717	0.7783151	0.8820948	0.7666494	-0.1154454
0.02917	0.02502	16.01663	15.35066	0.8686938	0.7536401	0.6508666	-0.1027735

0.007641	0.00902	20.44737	21.16869	0.1469808	0.0790956	0.1372704	0.05817478
0.045388	0.001	29.98334	13.43063	0.82455	0.5093535	0.4018852	-0.1074683
0.00662	0.00456	23.41278	21.79153	0.1517471	0.0642649	0.1363608	0.07209598
1.32E-05	5.45E-05	42.63358	48.79659	0.6275595	0.7390592	0.6247758	-0.1142834
7.62E-06	1.71E-06	57.68174	51.1784	0.1379873	0.0505252	0.1214121	0.07088696
0.003875	0.0025	26.02416	24.11767	0.641472	0.7116862	0.6395925	-0.07209367
0.033725	0.03924	14.06323	14.72046	0.7645181	0.8308545	0.7641538	-0.06670063
0.01794	0.00315	25.023	17.4617	0.8552427	0.7896193	0.7352925	-0.05432683
0.043628	0.02038	16.90777	13.60235	0.7944881	0.8871942	0.820846	-0.06634823
0.042778	0.00063	32.03563	13.68781	0.8928477	0.7967708	0.7406809	-0.05608984
0.001206	0.00501	23.00174	29.18568	0.1964041	0.1338567	0.1894839	0.05562721
0.021343	0.0251	16.00276	16.70746	0.2073978	0.304554	0.3831615	0.0786075
0.036788	0.04129	13.84156	14.34295	0.8658606	0.8033436	0.8688656	0.06552199
0.015765	1.53E-06	58.16362	18.02313	0.2651187	0.6695811	0.7626364	0.09305531
0.017257	0.00327	24.85186	17.6303	0.7304087	0.8163898	0.7589462	-0.05744361
0.018712	0.02283	16.41568	17.2789	0.9563498	0.9049253	0.9582705	0.05334522
0.007586	0.00696	21.57495	21.20005	0.4439759	0.3468203	0.4390848	0.09226449
0.008036	0.00483	23.16082	20.94936	0.1380463	0.071959	0.1431868	0.07122781
0.013128	0.02535	15.95993	18.81809	0.7126158	0.7856699	0.7056335	-0.08003645
0.024567	0.01793	17.46531	16.0964	0.2636389	0.201514	0.2548096	0.05329556
0.001613	9.81E-05	40.08317	27.92248	0.8513852	0.685773	0.7648914	0.07911846
0.031539	0.01493	18.26044	15.01149	0.0457116	0.1463454	0.2191862	0.07284077
0.009973	0.00055	32.62547	20.0118	0.3488138	0.546929	0.6541672	0.1072382
0.00039	2.15E-06	56.66887	34.09236	0.8677257	0.7758609	0.8416421	0.0657812
0.002256	0.00215	26.68453	26.467	0.6373912	0.7836816	0.6315328	-0.1521488
0.004924	0.00575	22.40237	23.07672	0.3051845	0.1611327	0.3134664	0.1523337
0.028928	0.004	23.98151	15.38677	0.1762515	0.0890327	0.1427259	0.05369326
0.009904	0.00877	20.57226	20.04174	0.1493803	0.0828611	0.1438844	0.06102336
0.030483	0.00781	21.07358	15.15937	0.882804	0.7667099	0.6603281	-0.1063818
0.030487	0.02078	16.82286	15.1588	0.5855349	0.6617991	0.5980042	-0.06379499
0.03483	0.00586	22.32092	14.58048	0.8529099	0.6917717	0.7758313	0.08405952
0.006833	3.56E-05	44.48964	21.65419	0.6695166	0.9323833	0.8342214	-0.09816194
0.012038	0.00027	35.68879	19.19456	0.179276	0.2766914	0.3834698	0.1067783
0.009001	0.00231	26.36606	20.45729	0.0436158	0.4486346	0.6447862	0.1961516
0.002124	0.00342	24.6612	26.72943	0.5615471	0.6253842	0.5446187	-0.08076549
0.006093	0.00038	34.24716	22.15134	0.7538714	0.8376832	0.7129038	-0.1247794
0.038874	0.01975	17.04424	14.10344	0.8097829	0.6712582	0.7832848	0.1120267
0.043397	0.02964	15.28158	13.62541	0.8390973	0.7781935	0.8314168	0.05322326
0.024644	0.02311	16.36189	16.08289	0.1806507	0.1134224	0.1797947	0.06637228
0.007553	0.00433	23.63093	21.21882	0.1660881	0.2708374	0.431568	0.1607306
0.017634	0.01511	18.20818	17.53657	0.1372381	0.0778761	0.1307335	0.05285744
0.031164	0.01309	18.8309	15.06351	0.903531	0.7618131	0.8699236	0.1081105
0.000402	0.00028	35.56317	33.9535	0.5757695	0.643071	0.5813959	-0.06167506
0.005013	0.0294	15.31596	22.999	0.8517601	0.7938815	0.6919868	-0.1018947
0.007699	0.00048	33.18172	21.13581	0.8890254	0.7908247	0.8484679	0.05764323
6.25E-05	3.63E-05	44.40289	42.03875	0.8230399	0.8967268	0.8300238	-0.06670304
0.011569	0.03425	14.65389	19.36692	0.2378547	0.3580129	0.1977551	-0.1602578
0.001108	0.00044	33.57574	29.55268	0.7959782	0.6774949	0.7747905	0.09729566
0.013117	0.00164	27.83942	18.82156	0.9452282	0.849364	0.7155218	-0.1338422
0.026188	0.00041	33.91908	15.8189	0.16212	0.5090137	0.6320357	0.123022
0.000406	0.00014	38.63739	33.9197	0.4955488	0.6353981	0.515278	-0.1201201
0.028336	0.03157	15.00763	15.47659	0.9235182	0.7767296	0.6405313	-0.1361983
0.03304	0.00079	30.99702	14.80961	0.2814928	0.5735645	0.7013265	0.1277621
0.009024	0.01906	17.19877	20.44611	0.8323423	0.7585437	0.8464337	0.08788993

0.008932	0.003	25.23488	20.4907	0.2518091	0.1459185	0.2296427	0.08372422
0.014012	0.00016	38.08272	18.53514	0.8373556	0.6474012	0.7224445	0.07504328
0.015612	0.00731	21.35966	18.06548	0.8942789	0.760385	0.8677735	0.1073885
0.000107	0.00012	39.15437	39.70675	0.6034067	0.7368008	0.6139651	-0.1228358
0.007528	0.02207	16.56241	21.23339	0.6205854	0.6762041	0.602577	-0.07362702
0.000968	0.00091	30.39781	30.14069	0.6538982	0.7889575	0.6565508	-0.1324067
0.000233	1.27E-05	48.95853	36.32671	0.1259688	0.039779	0.1081782	0.06839916
0.036583	0.00171	27.67412	14.36718	0.086511	0.4701245	0.6031938	0.1330692
0.012766	0.00038	34.19315	18.93949	0.8390101	0.6607561	0.5654103	-0.09534577
0.040128	0.01807	17.42986	13.96553	0.8461598	0.7792798	0.8331531	0.05387323
0.002762	0.00605	22.18074	25.58796	0.6431429	0.7380851	0.6293176	-0.1087674
0.00847	0.00376	24.24677	20.72142	0.913231	0.6847501	0.5229887	-0.1617613
0.000801	0.0002	36.99273	30.96639	0.1962804	0.116758	0.1800417	0.0632837
0.017597	0.00619	22.0804	17.54573	0.8957915	0.7449378	0.8522965	0.1073587
0.04146	0.00654	21.84645	13.82368	0.8365526	0.7447245	0.6546559	-0.09006866
0.007714	0.00884	20.5376	21.12716	0.6368473	0.6995471	0.6245461	-0.07500106
0.020095	0.00269	25.69446	16.96903	0.0342864	0.4851318	0.6760113	0.1908795
6.59E-05	1.61E-05	47.93787	41.81386	0.1899606	0.1065154	0.1753231	0.0688077
0.024003	0.01501	18.23495	16.19731	0.8681936	0.7634881	0.859263	0.09577486
0.035281	0.00188	27.26382	14.52458	0.0691118	0.1647539	0.1063203	-0.0584336
0.041597	0.03468	14.59898	13.80942	0.8061255	0.7386686	0.8028741	0.06420559
0.017242	0.01456	18.36782	17.63421	0.5408422	0.5998273	0.5351543	-0.06467297
0.005688	0.00162	27.89192	22.45049	0.9136913	0.8327849	0.8965651	0.06378023
0.011982	0.01183	19.26922	19.21454	0.4459198	0.3373252	0.4325586	0.0952334
0.015925	0.0167	17.774	17.97918	0.7135649	0.8093844	0.7135031	-0.09588134
0.005751	0.03355	14.74349	22.40241	0.6559849	0.7174938	0.6239734	-0.0935203
0.03575	0.03038	15.17444	14.46727	0.381559	0.2648543	0.3732455	0.1083912
0.03731	0.01041	19.82453	14.28173	0.8625129	0.7858393	0.840351	0.05451169
0.016372	0.00984	20.06993	17.85909	0.8049744	0.4267378	0.7636869	0.3369491
0.007408	0.00266	25.75655	21.30319	0.8350552	0.6963065	0.7923653	0.09605886
0.00582	0.01243	19.05634	22.35067	0.6518716	0.7864047	0.5960069	-0.1903979
0.005267	0.0093	20.31591	22.78464	0.6916378	0.7544485	0.6847539	-0.06969468
0.001405	0.00074	31.28772	28.5233	0.8048191	0.9162179	0.8174732	-0.0987448
0.035311	0.02039	16.90603	14.52088	0.2614861	0.175695	0.243307	0.067612
0.01741	0.01001	19.9935	17.59212	0.5049977	0.4316584	0.4957132	0.06405478
0.010457	0.00501	23.00113	19.80595	0.0556644	0.226943	0.3708381	0.1438952
0.036804	0.00042	33.81429	14.34105	0.11009	0.5598009	0.6981357	0.1383348
0.001432	0.00057	32.47937	28.44061	0.8558849	0.7205551	0.605437	-0.1151181
0.008611	0.00795	20.99496	20.64951	0.3903536	0.5189158	0.3780342	-0.1408816
0.003039	0.00323	24.90744	25.173	0.7497016	0.8863667	0.7757855	-0.1105811
0.015329	0.01505	18.22533	18.14498	0.8132937	0.7479343	0.815559	0.06762474
0.004175	4.86E-06	53.13139	23.79385	0.2017341	0.0820139	0.1480324	0.06601848
0.013204	0.00799	20.97516	18.79297	0.8512248	0.7669727	0.8426422	0.07566954
0.033485	0.0131	18.8269	14.75154	0.7930046	0.718303	0.7774599	0.05915697
0.003857	0.0169	17.7209	24.13769	0.8942041	0.7629087	0.595259	-0.1676497
0.010628	0.00571	22.4373	19.73563	0.7936832	0.7310729	0.7864208	0.05534789
0.00314	2.51E-08	75.99541	25.03139	0.1050561	0.6420611	0.7358198	0.09375876
0.030063	0.00113	29.45597	15.21974	0.8455762	0.6659325	0.7477742	0.0818417
0.00288	5.65E-06	52.48263	25.40549	0.1744212	0.0730981	0.1360291	0.06293094
0.0451	0.00102	29.89389	13.45826	0.8528163	0.7533398	0.7025445	-0.05079522
0.004448	0.00356	24.48169	23.51828	0.2111901	0.123634	0.2001881	0.07655419
0.001512	7.28E-05	41.38118	28.20397	0.8343721	0.703146	0.6332309	-0.06991516
0.003906	0.00108	29.6536	24.08261	0.8401161	0.7592928	0.8323828	0.07308993
0.010293	0.00173	27.61357	19.87478	0.0516342	0.3538003	0.4914848	0.1376845

0.000801	0.00627	22.02548	30.963	0.8243154	0.8921301	0.7996047	-0.09252538
0.007959	0.01712	17.66393	20.99152	0.8829682	0.7863917	0.6741605	-0.1122311
0.005701	0.00112	29.50955	22.44024	0.8959011	0.7181132	0.5800399	-0.1380734
0.046549	0.02931	15.33016	13.32092	0.4639378	0.3284329	0.4514491	0.1230162
0.00027	0.00031	35.11401	35.68264	0.557324	0.6563306	0.546831	-0.1094996
0.021647	0.02502	16.01704	16.64598	0.1127105	0.0531625	0.1063762	0.05321362
0.007095	0.00376	24.25146	21.49038	0.1362213	0.0779187	0.1490346	0.07111588
0.040829	0.00016	37.9005	13.89034	0.6847528	0.439734	0.5104299	0.07069591
0.013843	0.00035	34.50479	18.58768	0.156139	0.2414049	0.3321021	0.09069725
0.008948	0.00218	26.6134	20.48253	0.8661105	0.7734731	0.6994677	-0.07400536
0.015366	0.03658	14.36733	18.13439	0.0957342	0.1615962	0.0809778	-0.08061845
0.000176	2.62E-05	45.82093	37.554	0.1090854	0.0434407	0.1133189	0.06987824
0.004052	0.00324	24.88936	23.92376	0.1594542	0.0697093	0.152429	0.08271962
0.045629	0.00305	25.15509	13.40761	0.8739645	0.7110562	0.6276101	-0.08344606
0.040011	0.00066	31.78743	13.97823	0.7795953	0.5715806	0.4864248	-0.08515581
0.035066	0.00015	38.11787	14.55108	0.7938383	0.6518409	0.7070183	0.05517738
0.038827	0.03465	14.60354	14.10868	0.8676065	0.7830305	0.705875	-0.07715552
0.000962	0.0002	36.97517	30.166	0.8628739	0.9468141	0.8763453	-0.0704687
0.01465	0.00557	22.54329	18.34156	0.3604666	0.4749279	0.5699439	0.09501603
0.000314	0.01367	18.64078	35.02387	0.8133133	0.8745733	0.7447	-0.1298733
0.030627	0.00172	27.64781	15.13892	0.7062719	0.7962653	0.7454877	-0.05077755
0.000266	0.00038	34.25787	35.75201	0.143432	0.0676435	0.1305286	0.06288515
0.023045	0.02053	16.87608	16.37422	0.7788678	0.8687235	0.776988	-0.09173547
0.003842	0.00494	23.05965	24.15484	0.7520655	0.8705615	0.7590678	-0.1114937
0.043217	0.00048	33.15624	13.64342	0.7909079	0.5795919	0.494707	-0.08488492
0.032758	0.00662	21.79326	14.84688	0.8932024	0.8199676	0.756507	-0.06346056
0.001337	0.00133	28.76178	28.73721	0.0449123	0.1374089	0.0406943	-0.09671458
0.010837	0.00302	25.20518	19.65096	0.8135613	0.6688917	0.7714533	0.1025616
0.007474	0.01085	19.6469	21.26431	0.4926295	0.3328159	0.4928967	0.1600808
0.011137	0.0243	16.14434	19.53214	0.8607734	0.8104876	0.8755756	0.06508804
0.001763	1.68E-06	57.75153	27.53849	0.8794147	0.8117015	0.7522928	-0.05940864
0.049807	0.00765	21.16493	13.02707	0.9224731	0.829228	0.8838547	0.05462672
0.028282	0.00142	28.48936	15.48494	0.8899801	0.6691751	0.5690301	-0.100145
0.008172	0.00593	22.26836	20.87693	0.6596831	0.7334452	0.7851435	0.05169826
0.008313	0.0066	21.80287	20.80255	0.4892056	0.8574824	0.6998028	-0.1576797
0.029457	0.01033	19.86004	15.30815	0.7922562	0.8840295	0.8193883	-0.06464118
0.049732	0.03956	14.0269	13.03364	0.8740041	0.5425905	0.845594	0.3030035
0.000913	7.44E-05	41.28492	30.39363	0.6042994	0.688048	0.6038661	-0.08418192
0.005493	0.00424	23.7284	22.60192	0.837517	0.6664085	0.5139099	-0.1524986
0.008065	0.01203	19.19826	20.9342	0.8325787	0.9016973	0.8132307	-0.08846667
0.027246	0.02616	15.8238	15.64699	0.8948645	0.7703969	0.6516467	-0.1187503
0.040578	0.00247	26.07983	13.91708	0.7891662	0.7130243	0.6383507	-0.07467356
0.004006	0.00408	23.88997	23.97267	0.3555937	0.214044	0.3558504	0.1418063
0.017905	0.00702	21.53805	17.47036	0.7948059	0.5530882	0.7310854	0.1779971
0.019109	0.04029	13.94797	17.1877	0.8204086	0.871111	0.8112168	-0.0598942
0.000672	0.00399	23.98983	31.72741	0.819775	0.9052881	0.8062642	-0.09902392
0.016602	0.02365	16.26178	17.79832	0.8261132	0.6750341	0.8325036	0.1574695
0.001558	0.00056	32.49957	28.07441	0.1024387	0.1705928	0.1196766	-0.05091621
0.007254	0.00013	38.80593	21.39428	0.9246503	0.8630561	0.7542912	-0.108765
0.049377	0.00015	38.37383	13.06479	0.6972851	0.5102996	0.4324477	-0.07785189
0.017482	0.00048	33.15824	17.57404	0.2417932	0.6299863	0.4721521	-0.1578342
0.009888	0.01277	18.93722	20.04883	0.7439574	0.8204291	0.7466374	-0.07379174
0.005555	0.00451	23.46264	22.5531	0.6122782	0.7577994	0.61206	-0.1457395
0.010807	0.01455	18.37128	19.66307	0.2876489	0.1529916	0.2820118	0.1290202

0.028831	0.00549	22.6058	15.40138	0.8089553	0.6188746	0.5146807	-0.1041939
0.041181	0.00124	29.06339	13.85299	0.5430641	0.7642763	0.8419299	0.07765361
0.003868	0.00852	20.69526	24.12481	0.0831753	0.2240447	0.3564151	0.1323704
0.033303	0.00354	24.51363	14.77515	0.6742219	0.4656284	0.5815696	0.1159412
0.022932	0.02735	15.63071	16.39559	0.8846173	0.8034921	0.8832952	0.07980306
0.034645	0.02698	15.69017	14.60358	0.8216518	0.7216617	0.8123167	0.09065495
0.047611	0.00457	23.40552	13.22292	0.4524728	0.6223392	0.7091671	0.08682787
0.039449	1.93E-05	47.13963	14.03961	0.3021835	0.6498685	0.562659	-0.08720956
0.022397	0.02465	16.08139	16.49815	0.8687833	0.803176	0.8781626	0.07498655
0.014063	2.06E-06	56.86874	18.51926	0.7448976	0.4518707	0.3840313	-0.06783938
0.028432	0.00954	20.20328	15.46197	0.831665	0.7213039	0.6363633	-0.08494063
0.000137	0.00041	33.82119	38.63635	0.3984726	0.3063264	0.4330353	0.126709
0.001783	0.01746	17.57837	27.48826	0.4177918	0.3466554	0.466067	0.1194117
0.000978	0.00063	32.0303	30.09675	0.8295978	0.9174661	0.8329582	-0.08450788
0.006029	0.00038	34.15025	22.19719	0.1687004	0.0968224	0.1533375	0.05651512
0.048826	0.00125	29.01735	13.11345	0.3666791	0.6242478	0.5287171	-0.09553076
0.03528	0.00068	31.65962	14.52468	0.8430597	0.5767115	0.6608957	0.08418415
0.03141	0.00439	23.57598	15.0293	0.8843324	0.8016798	0.7007912	-0.1008886
0.003743	0.00465	23.32693	24.26743	0.8637972	0.8006594	0.8665677	0.06590827
0.002862	7.71E-07	61.13108	25.43353	0.3241482	0.7642163	0.5069078	-0.2573085
0.003542	0.00096	30.16528	24.50808	0.8793347	0.7987469	0.8619204	0.06317355
5.46E-05	0.00105	29.80156	42.63004	0.207994	0.0981681	0.2176565	0.1194884
0.020594	0.02619	15.81924	16.86266	0.7720444	0.8508885	0.7385366	-0.1123519
0.002218	0.00585	22.32946	26.54124	0.7347277	0.8591195	0.7339052	-0.1252144
0.00157	6.46E-06	51.8958	28.04132	0.3425984	0.560185	0.6476994	0.08751438
0.010227	6.72E-05	41.72542	19.90231	0.5217687	0.6667007	0.6057718	-0.06092888
0.001775	0.00486	23.12928	27.50811	0.8576984	0.9383412	0.8461458	-0.09219537
0.000326	8.34E-06	50.7881	34.86824	0.6877571	0.7782748	0.6965691	-0.08170568
8.14E-05	0.00348	24.57935	40.89279	0.6451911	0.7178873	0.5850512	-0.1328361
0.00552	3.49E-05	44.57099	22.58058	0.2472632	0.4140107	0.3257714	-0.08823926
0.020388	0.02202	16.57134	16.90631	0.8728316	0.7898218	0.8742582	0.08443637
0.042778	0.02091	16.79677	13.68783	0.6790338	0.4674265	0.6344319	0.1670054
0.00051	0.00083	30.80881	32.92194	0.7041836	0.8392053	0.6898363	-0.1493691
0.043593	0.03561	14.48448	13.60585	0.8989819	0.7424492	0.8778784	0.1354292
9.94E-06	1.62E-05	47.90115	50.02398	0.567347	0.673371	0.5569858	-0.1163852
0.001893	0.00126	28.99346	27.22801	0.3959483	0.3390366	0.4039134	0.06487678
0.002088	0.00373	24.27969	26.80195	0.5038847	0.5863442	0.4844802	-0.1018641
0.000194	0.00045	33.43548	37.12118	0.4276877	0.5046815	0.4058147	-0.0988668
0.004363	0.00224	26.50036	23.60214	0.1034401	0.0508289	0.1018458	0.05101684
0.016935	0.01229	19.10528	17.71213	0.9474527	0.698476	0.5023668	-0.1961092
1.12E-05	8.65E-05	40.62836	49.51571	0.6887973	0.8162214	0.7049283	-0.1112931
0.006149	0.00504	22.9797	22.11203	0.7109602	0.7808327	0.7130579	-0.06777483
0.013364	0.00861	20.64892	18.74053	0.6339607	0.7246132	0.6442489	-0.08036431
0.01285	0.00059	32.30218	18.911	0.1286793	0.2335302	0.285939	0.05240879
0.027803	0.03339	14.76426	15.55902	0.1666963	0.1138929	0.1702484	0.05635554
0.02743	0.00249	26.03518	15.61775	0.6008403	0.4181483	0.3350736	-0.0830747
0.000472	0.00493	23.07385	33.26297	0.5700384	0.6418267	0.5380388	-0.1037879
0.007377	0.00268	25.71743	21.32095	0.6163993	0.7478769	0.6391908	-0.1086861
0.005444	0.00436	23.60561	22.64075	0.6311723	0.7243192	0.6379679	-0.08635127
0.003497	0.00417	23.79611	24.56311	0.521715	0.6127201	0.5243532	-0.08836687
0.034529	0.044	13.56571	14.6181	0.9129304	0.8468291	0.9136645	0.06683543
0.000332	9.71E-05	40.12945	34.78862	0.3007261	0.2220419	0.3066123	0.08457045
0.000495	6.20E-05	42.07529	33.0572	0.1529036	0.0519017	0.1130242	0.0611225
0.000108	0.00303	25.18398	39.6479	0.7028889	0.7548718	0.6782568	-0.07661504

0.012556	0.00762	21.18296	19.01155	0.3966424	0.2752459	0.3798465	0.1046006
0.011918	0.03574	14.46865	19.23785	0.7911549	0.6610017	0.5125198	-0.1484818
0.025754	0.00066	31.83651	15.89161	0.7052451	0.5824512	0.6456009	0.06314959
0.008742	0.00549	22.60626	20.58411	0.7792804	0.8377348	0.7854018	-0.05233294
0.028877	0.00375	24.26491	15.39444	0.1263987	0.3629488	0.218619	-0.1443298
0.015231	0.01313	18.81718	18.17259	0.3590757	0.2413504	0.3473975	0.1060471
0.003448	0.00298	25.25476	24.62385	0.7985393	0.9045737	0.8009416	-0.103632
0.013681	0.0385	14.14485	18.63873	0.8395593	0.8980245	0.8245502	-0.07347428
0.00662	0.00209	26.80304	21.7914	0.3337649	0.2191897	0.3213256	0.1021359
0.01077	0.00746	21.27049	19.67803	0.0327665	0.0906987	0.1599595	0.06926084
0.009982	0.00492	23.07898	20.00767	0.6720303	0.7879794	0.6841739	-0.1038055
0.020038	0.01302	18.85418	16.98143	0.8481215	0.7639734	0.6874014	-0.07657198
0.047103	0.00861	20.6475	13.26952	0.0678589	0.1488349	0.2099786	0.06114367
0.010653	0.00745	21.27847	19.72518	0.8374657	0.9089805	0.8397034	-0.06927709
0.03094	0.0001	39.97657	15.09484	0.8764514	0.755541	0.6893795	-0.0661616
0.029506	0.04637	13.33798	15.30085	0.8558746	0.910175	0.8488026	-0.06137234
5.68E-05	0.00013	39.0037	42.46019	0.8959475	0.8180393	0.7493427	-0.06869651
0.001613	5.40E-05	42.67432	27.92486	0.8701587	0.7168228	0.7844871	0.06766433
1.15E-06	3.25E-06	54.88342	59.37565	0.5895479	0.7042709	0.5780697	-0.1262012
0.001211	0.00011	39.72657	29.16898	0.8626885	0.6657766	0.5266467	-0.1391299
0.013544	0.03341	14.76081	18.6824	0.765262	0.6796193	0.78877	0.1091507
5.36E-05	2.36E-05	46.26229	42.70818	0.1954884	0.1169687	0.1939779	0.07700921
0.027381	0.02524	15.97996	15.62555	0.73481	0.6453936	0.7375585	0.09216489
0.009447	0.00129	28.88633	20.24726	0.7282113	0.8260375	0.7268191	-0.0992184
0.001697	0.00148	28.30963	27.70252	0.8385189	0.9360769	0.8626479	-0.07342897
0.038103	0.00685	21.64361	14.19045	0.1218235	0.3488226	0.4731342	0.1243116
0.014416	0.00529	22.76512	18.41161	0.4476043	0.379029	0.4329179	0.05388894
0.005314	0.0008	30.98965	22.74562	0.248903	0.4170887	0.2925692	-0.1245195
0.031701	0.00922	20.35266	14.98923	0.8483443	0.6014034	0.4449341	-0.1564693
0.004997	0.00153	28.15047	23.01306	0.6767964	0.487046	0.3480309	-0.1390151
0.016598	0.01463	18.34851	17.79951	0.753388	0.5822785	0.743068	0.1607895
0.002425	0.00397	24.00811	26.15205	0.2644506	0.1871925	0.2596325	0.07244001
0.013353	0.00661	21.79667	18.74435	0.5253847	0.7742146	0.5985583	-0.1756563
0.000333	6.50E-07	61.87323	34.77044	0.1999812	0.8073097	0.7277589	-0.07955081
0.015055	0.01153	19.38227	18.22326	0.6098145	0.7240889	0.6127584	-0.1113305
0.008028	0.00507	22.95347	20.95414	0.1733686	0.1018155	0.1667741	0.0649586
0.004331	0.003	25.22655	23.63367	0.8100292	0.74222	0.8079349	0.06571499
0.048774	0.00033	34.8175	13.11815	0.748449	0.4387924	0.5464613	0.1076689
0.00065	0.00102	29.93287	31.87121	0.6639237	0.7941404	0.6618629	-0.1322776
0.000287	9.29E-05	40.31751	35.42088	0.836506	0.9433255	0.8438614	-0.09946404
0.001626	0.00254	25.95331	27.88757	0.5937506	0.7129877	0.5941979	-0.1187899
0.0375	0.01096	19.60251	14.25972	0.8080032	0.570099	0.7268691	0.1567702
5.54E-05	2.69E-05	45.7033	42.56605	0.5739715	0.7146573	0.5190395	-0.1956178
0.046521	0.00042	33.73431	13.32348	0.213479	0.4263754	0.4954604	0.06908496
0.012599	0.00905	20.43415	18.99647	0.3664395	0.2629322	0.3459818	0.0830496
0.004135	0.00169	27.72735	23.83542	0.8909561	0.7928794	0.88151	0.08863059
0.001457	0.00199	27.02046	28.36613	0.7987226	0.8748896	0.809632	-0.06525756
0.001593	0.03045	15.16358	27.97878	0.8406366	0.9016708	0.7582925	-0.1433784
0.032509	0.02526	15.97514	14.88001	0.7278498	0.8265986	0.7381821	-0.0884165
0.022077	0.01154	19.37613	16.56058	0.8501616	0.7825045	0.698925	-0.08357954
0.002685	0.00178	27.48419	25.7108	0.2445346	0.1638299	0.2344058	0.07057583
0.001018	0.02309	16.366	29.9245	0.6163052	0.6967958	0.5525173	-0.1442785
0.036797	0.02852	15.44807	14.34191	0.3384416	0.2513072	0.3321936	0.0808864
0.000665	0.00102	29.92606	31.77312	0.8817565	0.7549747	0.8251994	0.07022468



0.020926	0.02543	15.94655	16.7932	0.4652883	0.3857951	0.4666673	0.08087226
0.001224	0.00054	32.66996	29.12303	0.8792331	0.7685343	0.6777942	-0.09074009
0.04304	0.00112	29.51949	13.66129	0.1319236	0.3553962	0.4378957	0.08249958
0.04444	0.00214	26.68908	13.52231	0.0879272	0.4335344	0.3095833	-0.1239511
0.000292	0.00337	24.72322	35.353	0.7391418	0.8384055	0.69562	-0.1427855
0.029143	0.01281	18.92413	15.35465	0.2863148	0.2114397	0.269806	0.05836634
0.005046	0.0006	32.19666	22.97061	0.0667423	0.2211805	0.3246952	0.1035147
0.002778	0.00807	20.92889	25.56274	0.6106458	0.6689813	0.5906517	-0.07832963
0.026467	0.00286	25.4393	15.77294	0.8859354	0.7804286	0.8454131	0.06498457
0.007958	0.00523	22.8174	20.9917	0.7449489	0.8357725	0.7437885	-0.09198404
0.047515	0.01079	19.67163	13.23171	0.880358	0.7487862	0.8265231	0.07773695
0.000711	1.33E-05	48.74864	31.4806	0.2571095	0.5588019	0.716853	0.1580511
0.029128	0.0178	17.49576	15.35687	0.9201548	0.7786538	0.6682011	-0.1104526
0.00462	0.00185	27.33078	23.35394	0.3044917	0.1789779	0.3721118	0.1931339
0.005152	0.02182	16.61107	22.88025	0.8568831	0.9068882	0.8435128	-0.06337545
0.000665	0.00031	35.05898	31.77228	0.6866416	0.5875723	0.6705049	0.08293258
0.002914	0.00107	29.72252	25.35546	0.3554774	0.2642043	0.3454348	0.08123058
0.019629	0.00943	20.25677	17.07092	0.8028895	0.7208009	0.7873011	0.0665003
0.030763	0.00021	36.79808	15.11966	0.9060103	0.7886737	0.6898382	-0.09883553
0.02471	0.01055	19.76794	16.07121	0.7194651	0.8033308	0.7404166	-0.06291428
0.030281	0.03074	15.12285	15.18827	0.7571756	0.841028	0.7561136	-0.0849143
0.002689	3.35E-05	44.75306	25.70374	0.7446333	0.553169	0.6449091	0.09174021
0.0426	0.00019	37.21443	13.7059	0.8035877	0.7049925	0.641697	-0.06329554
0.004758	0.00106	29.73557	23.22582	0.1398091	0.0716994	0.1226602	0.05096073
6.93E-06	0.00032	34.89055	51.59432	0.8028014	0.8684935	0.8165253	-0.05196824
0.034443	0.00823	20.84511	14.629	0.7047415	0.6166259	0.6758142	0.05918825
0.034793	0.03225	14.91474	14.58509	0.4483896	0.2304105	0.4376103	0.2071998
0.036684	0.0162	17.90531	14.35521	0.6326714	0.4807605	0.6056078	0.1248472
0.040738	0.00515	22.88265	13.90004	0.791752	0.6808201	0.7406119	0.05979177
0.02954	0.02634	15.79449	15.29594	0.7673211	0.8626604	0.7720837	-0.09057672
0.003502	0.00014	38.44551	24.55715	0.7949943	0.6670997	0.5660266	-0.101073
0.022924	0.01355	18.67928	16.3971	0.868966	0.6112627	0.8174126	0.2061498
0.028999	0.00159	27.99723	15.37619	0.7651841	0.6394403	0.7081486	0.06870826
0.023747	0.00328	24.83946	16.24383	0.7107394	0.578141	0.5062408	-0.07190023
0.002104	0.00096	30.17134	26.76852	0.8434657	0.7314056	0.8321119	0.1007064
0.00396	0.0021	26.77932	24.02344	0.4212938	0.20839	0.3561968	0.1478068
0.046195	0.03311	14.79984	13.35402	0.8479779	0.7534474	0.8376673	0.08421991
0.002733	0.0101	19.95478	25.63311	0.4990622	0.5633224	0.4848832	-0.07843912
0.03651	0.00692	21.60156	14.37592	0.069281	0.3027874	0.4297422	0.1269548
0.0152	0.00297	25.26806	18.1815	0.8356451	0.7205154	0.7906406	0.07012513
0.016038	0.03374	14.71836	17.9485	0.1522606	0.2559469	0.1088911	-0.1470558
0.009299	8.96E-05	40.47564	20.31578	0.6226155	0.7729445	0.688434	-0.08451048
0.013683	0.02919	15.34767	18.63809	0.8515753	0.7906116	0.8618817	0.07127006
2.86E-06	2.82E-07	65.50095	55.42957	0.0986341	0.0285705	0.0882485	0.05967792
0.041245	3.19E-05	44.96717	13.8463	0.6746033	0.4264227	0.326923	-0.09949972
0.025016	0.037	14.31828	16.01778	0.731429	0.7833629	0.7252412	-0.05812162
1.34E-05	1.39E-06	58.56896	48.71754	0.2317929	0.0633673	0.1612489	0.09788164
0.039839	0.03522	14.53256	13.99691	0.9120728	0.8076575	0.6927228	-0.1149347
0.000999	0.00057	32.45285	30.00466	0.7320639	0.8512177	0.7419723	-0.1092454
0.042051	0.00035	34.57074	13.76221	0.7570873	0.6232986	0.5435656	-0.07973299
0.000446	0.00048	33.21841	33.50335	0.9172415	0.8592528	0.9164004	0.05714765
0.000137	6.79E-05	41.68418	38.63799	0.2457458	0.0641485	0.2213858	0.1572373
4.80E-06	5.88E-08	72.3027	53.18846	0.2213358	0.0910137	0.2088795	0.1178659
0.002438	0.00146	28.34641	26.129	0.8818094	0.9504098	0.8953844	-0.05502545

0.000792	6.92E-05	41.59703	31.01269	0.2377523	0.1273743	0.2121863	0.08481206
0.003881	0.01703	17.68855	24.11063	0.7585056	0.834999	0.7351686	-0.09983038
0.0267	0.01609	17.93447	15.73487	0.8013732	0.7257795	0.7842421	0.0584626
0.001829	3.83E-05	44.16788	27.37831	0.2793328	0.1814898	0.2718925	0.09040266
0.023363	0.02693	15.69763	16.31466	0.5326126	0.585092	0.5299945	-0.05509752
0.045825	0.00499	23.02267	13.38898	0.8833575	0.6479876	0.5210915	-0.1268962
0.012225	9.93E-06	50.03259	19.12738	0.6021695	0.8222146	0.7607471	-0.06146744
0.000309	0.00076	31.21804	35.10402	0.6784113	0.8015126	0.6905425	-0.1109701
0.048599	0.02352	16.28585	13.1337	0.0869317	0.1843442	0.1110605	-0.07328372
0.033206	0.00496	23.04325	14.78783	0.7321758	0.5968822	0.6819995	0.08511726
0.000416	0.00279	25.54436	33.80835	0.788684	0.8805066	0.7785063	-0.1020003
0.014011	0.01118	19.51707	18.53536	0.2192598	0.0765594	0.2022917	0.1257323
0.005516	0.00644	21.9079	22.58391	0.0367899	0.1011586	0.0368074	-0.06435123
0.033859	0.04015	13.96306	14.7033	0.4759894	0.3928342	0.4654906	0.07265642
0.010386	0.00074	31.29738	19.83572	0.4039604	0.5031072	0.426933	-0.07617415
0.032912	0.0085	20.7064	14.82644	0.806304	0.693958	0.5862147	-0.1077434
0.021631	0.01146	19.40804	16.64923	0.8753146	0.7909777	0.8631038	0.07212614
0.001821	0.00028	35.52499	27.39743	0.8518555	0.7264689	0.8188064	0.09233748
0.005499	0.00263	25.80051	22.59745	0.6532114	0.7639329	0.6560619	-0.107871
0.008733	0.00054	32.67435	20.58828	0.7909845	0.7111866	0.5900593	-0.1211273
0.03531	0.00655	21.83479	14.52103	0.8047826	0.6866646	0.7502382	0.0635736
0.000717	0.00015	38.34877	31.44254	0.1858263	0.0795757	0.1522669	0.0726912
0.041604	1.54E-05	48.12975	13.80867	0.1678673	0.7439938	0.6190822	-0.1249115
0.020818	0.03087	15.1052	16.81556	0.3581417	0.2269152	0.3558729	0.1289577
0.000928	0.00044	33.615	30.32315	0.2139019	0.0744476	0.1833487	0.108901
0.028346	0.0014	28.53386	15.47515	0.8715559	0.6909734	0.6081976	-0.08277584
5.84E-05	0.00219	26.59439	42.33294	0.5229852	0.5983005	0.4824666	-0.1158338
0.012217	0.03134	15.03928	19.13051	0.5806375	0.6354164	0.5664226	-0.06899373
0.00366	0.00372	24.28888	24.36567	0.6248046	0.7886665	0.6357298	-0.1529367
0.022554	0.01257	19.00694	16.46769	0.8261405	0.7118131	0.6236159	-0.0881972
0.032931	0.00029	35.42403	14.82399	0.7980621	0.534209	0.4428175	-0.09139138
0.01623	0.00756	21.21568	17.89677	0.8235356	0.7131975	0.8092844	0.09608693
0.032289	0.03068	15.131	14.90939	0.0834569	0.2062755	0.3175743	0.1112987
0.015185	0.00019	37.16444	18.18593	0.5174111	0.4122188	0.4793965	0.06717774
0.024853	0.03078	15.11783	16.04621	0.8656648	0.728258	0.583809	-0.1444489
0.018414	0.03172	14.98688	17.34852	0.5061343	0.5775478	0.5006012	-0.07694662
0.008136	5.88E-05	42.30652	20.89594	0.8825944	0.5958626	0.7094126	0.1135499
0.001573	0.00015	38.15577	28.0317	0.1443449	0.0757656	0.138144	0.0623784
0.040969	0.04413	13.55256	13.87546	0.2219801	0.1449228	0.2201003	0.07517755
0.021036	0.00161	27.94042	16.77039	0.8005956	0.7200549	0.7724493	0.05239438
0.032915	0.00085	30.69711	14.82608	0.8735542	0.7257481	0.6621385	-0.06360959
0.007734	0.02717	15.6592	21.11576	0.5838925	0.648123	0.5416038	-0.1065192
0.012327	5.17E-05	42.86861	19.09133	0.6838228	0.5170313	0.5862046	0.06917335
0.008121	0.01531	18.14981	20.90383	0.9274167	0.8446013	0.7568852	-0.08771612
0.02386	0.00087	30.58116	16.22332	0.0556811	0.1914714	0.2900783	0.09860685
0.005781	0.01312	18.82204	22.37961	0.1810738	0.123366	0.258963	0.135597
0.026565	0.0275	15.60674	15.75692	0.1900605	0.1258024	0.1929821	0.06717972
0.029057	0.02317	16.35015	15.36747	0.8781211	0.796366	0.8698892	0.07352323
0.011847	0.00813	20.89844	19.26383	0.8049354	0.7333727	0.8023064	0.06893363
0.004572	0.00708	21.49726	23.39898	0.7779301	0.8586102	0.7778974	-0.08071283
0.006362	0.03017	15.20474	21.96413	0.4474525	0.3944452	0.4713137	0.07686841
1.99E-06	4.46E-08	73.50858	57.00443	0.2707539	0.4413367	0.5544946	0.1131579
0.000132	0.00736	21.32953	38.79681	0.8137308	0.8750083	0.7580566	-0.1169518
0.03826	0.02726	15.64428	14.17259	0.7023759	0.8633493	0.7230434	-0.1403059

0.003905	0.01863	17.29893	24.08417	0.7552819	0.8326364	0.7306854	-0.1019509
0.036064	0.0178	17.49491	14.42927	0.7363043	0.6470277	0.5585003	-0.08852738
0.015986	0.00012	39.33772	17.96248	0.1891751	0.6488906	0.7562491	0.1073585
0.010999	1.33E-05	48.76606	19.58635	0.8251072	0.6069776	0.4990771	-0.1079005
0.044733	0.0034	24.68883	13.49373	0.809945	0.714048	0.634594	-0.07945392
0.027572	0.02218	16.54118	15.59534	0.0934826	0.1847478	0.289099	0.1043512
0.031864	0.01042	19.82327	14.96695	0.7331049	0.8719516	0.7839673	-0.08798434
0.015504	0.00449	23.48058	18.09566	0.8178036	0.7501321	0.6968221	-0.05331004
0.039459	0.01455	18.37157	14.03849	0.094568	0.1627291	0.2991927	0.1364637
0.036264	0.02247	16.48319	14.40524	0.8023848	0.6957718	0.5948164	-0.1009554
0.034827	0.01146	19.407	14.58086	0.8866888	0.7756283	0.8572208	0.08159252
0.005137	0.00562	22.50487	22.89315	0.4293927	0.5162584	0.4174585	-0.09879989
0.007463	0.00169	27.72941	21.2707	0.0740363	0.1854921	0.1020093	-0.08348279
0.027001	0.01827	17.38207	15.68617	0.9005186	0.8372084	0.893557	0.05634855
0.01661	0.01017	19.92641	17.79638	0.3295618	0.2735404	0.3256535	0.05211306
0.048977	0.02015	16.95818	13.10011	0.8476836	0.7729887	0.8312154	0.05822667
0.00307	0.00307	25.13531	25.12864	0.9275538	0.7680815	0.6322904	-0.135791
0.016557	0.0201	16.96721	17.81013	0.5521337	0.6315163	0.5487263	-0.08278996
0.007506	0.00867	20.62093	21.24615	0.8507305	0.795819	0.8518778	0.05605873
0.035479	0.00677	21.69644	14.50031	0.334453	0.2377267	0.3236022	0.08587551
0.00011	0.00011	39.49032	39.60424	0.1456043	0.0874357	0.1477518	0.06031615
0.020341	0.0164	17.85058	16.9162	0.2223189	0.128317	0.2116471	0.0833301
0.04584	0.01044	19.81276	13.38755	0.8495749	0.7479432	0.67637	-0.07157327
0.012377	0.00018	37.45956	19.07391	0.5134529	0.2958599	0.3557973	0.0599374
0.025129	0.02163	16.65024	15.99831	0.5977497	0.7518556	0.6055335	-0.146322
0.001092	6.14E-05	42.12175	29.61724	0.1067941	0.4247597	0.6082827	0.183523
0.044701	0.00329	24.82686	13.49684	0.8446319	0.6050746	0.4920639	-0.1130107
0.024582	0.0005	33.0284	16.09382	0.0477529	0.3812911	0.4835664	0.1022753
0.002488	0.00026	35.88453	26.04108	0.2891158	0.1704157	0.2566282	0.08621246
0.049063	0.00438	23.58259	13.09248	0.9242123	0.7877476	0.7024401	-0.08530738
6.01E-05	3.19E-05	44.96148	42.21469	0.1097011	0.0439419	0.0977719	0.05383
0.021975	0.03584	14.45632	16.58073	0.7107095	0.7831138	0.6983638	-0.08475001
0.016259	0.01322	18.78615	17.889	0.5555969	0.6584482	0.5644632	-0.09398501
0.003504	0.00276	25.58907	24.55382	0.8949868	0.9478053	0.8965949	-0.05121046
0.044385	0.03354	14.74428	13.52761	0.8649265	0.794412	0.8591508	0.06473878
0.005213	0.0103	19.87325	22.82927	0.6230519	0.7063401	0.6083936	-0.09794647
0.002782	0.00051	32.92154	25.55687	0.7083212	0.870523	0.7502043	-0.1203187
0.002475	0.00139	28.57535	26.06358	0.6469717	0.7775173	0.6693716	-0.1081457
0.042648	0.01017	19.9272	13.701	0.1638276	0.2986189	0.3852761	0.08665723
0.013372	0.00037	34.27679	18.73809	0.8633003	0.724466	0.7892319	0.06476589
0.007912	0.02344	16.29952	21.01701	0.5538448	0.6091467	0.5252002	-0.08394653
0.007422	0.0118	19.28294	21.29489	0.7672092	0.8265205	0.7643862	-0.06213431
0.009193	0.00276	25.59083	20.36525	0.7147381	0.5331873	0.6651781	0.1319908
0.000148	0.00037	34.30327	38.3056	0.2800586	0.1189534	0.2287785	0.1098251
0.029987	0.04702	13.2775	15.2306	0.7743311	0.8439888	0.7659329	-0.0780559
0.03825	0.0079	21.0259	14.17371	0.9095076	0.750712	0.6602637	-0.09044836
0.006801	0.00658	21.8206	21.67397	0.1935029	0.0909168	0.1775208	0.08660396
0.024878	0.0187	17.28078	16.04193	0.0433599	0.3229834	0.5482007	0.2252173
0.025489	0.0072	21.4237	15.93639	0.1822965	0.0985177	0.1618187	0.063301
0.000654	0.00652	21.8563	31.84741	0.4706392	0.5260403	0.4386098	-0.08743044
0.010071	0.00116	29.3581	19.96915	0.8207564	0.4887188	0.6668621	0.1781433
0.020948	0.00645	21.90691	16.78861	0.844269	0.5917865	0.7716287	0.1798422
0.046308	0.04648	13.32739	13.34347	0.8784383	0.7941371	0.8746369	0.08049977
0.000481	0.00044	33.54342	33.1744	0.1433681	0.0788536	0.1347763	0.05592271

0.008978	0.00051	32.90198	20.46842	0.8392192	0.6569258	0.7472027	0.09027689
0.001083	0.00114	29.41676	29.65237	0.1695271	0.0927088	0.1585779	0.06586917
0.046552	0.00192	27.16405	13.32058	0.7877841	0.5700825	0.4767636	-0.09331886
0.018127	0.03974	14.00772	17.41669	0.2447322	0.191877	0.2544136	0.06253659
0.005661	0.00388	24.11661	22.47133	0.8548563	0.9337458	0.8661487	-0.06759708
0.020586	0.04717	13.26297	16.86428	0.6442934	0.5439723	0.6708531	0.1268809
0.011266	0.00133	28.75306	19.48233	0.754027	0.5644249	0.4451469	-0.1192779
0.000864	0.00089	30.52729	30.63392	0.6145701	0.6889263	0.6137956	-0.07513074
0.011623	0.0151	18.21035	19.34684	0.8583599	0.7948632	0.8653092	0.07044601
0.046454	0.0002	37.03576	13.32977	0.149677	0.2633147	0.4081846	0.14487
0.027606	2.81E-07	65.51688	15.58993	0.1769451	0.7006643	0.7536702	0.05300578
0.029797	0.00028	35.52555	15.25831	0.1341195	0.343586	0.422417	0.07883101
0.029104	0.02854	15.44584	15.3604	0.3866501	0.4702752	0.3906475	-0.0796277
0.004325	0.00411	23.86331	23.6404	0.3002791	0.166928	0.2900743	0.1231463
0.009743	0.0166	17.80018	20.11297	0.6833032	0.5413947	0.397273	-0.1441217
0.00069	0.0027	25.6826	31.61209	0.8664278	0.9212485	0.8495324	-0.07171609
0.024853	0.02961	15.28578	16.0462	0.114379	0.2160905	0.1049348	-0.1111557
0.021221	0.01345	18.71226	16.7324	0.2005282	0.093746	0.1840842	0.09033827
0.023031	0.00494	23.06479	16.37682	0.7995343	0.5504611	0.7084099	0.1579489
0.015635	0.00889	20.51264	18.05893	0.2223046	0.1563326	0.2169873	0.06065467
0.007335	0.01266	18.97645	21.34625	0.8588756	0.9137014	0.8411348	-0.07256656
0.004784	0.02492	16.03462	23.20249	0.7281302	0.7816426	0.707014	-0.0746286
0.000179	0.00105	29.79614	37.48068	0.8891901	0.950331	0.8636811	-0.08664987
0.001536	0.01116	19.52289	28.13553	0.653432	0.7413921	0.6098574	-0.1315347
0.003888	0.00951	20.216	24.10237	0.8373885	0.729869	0.5464355	-0.1834335
0.009764	0.00523	22.81114	20.10373	0.8965938	0.9572861	0.9060516	-0.05123447
0.048643	0.01649	17.82764	13.1298	0.8214503	0.7526255	0.6604906	-0.09213486
0.039116	0.00144	28.42921	14.07651	0.0712712	0.5737095	0.7173861	0.1436766
0.002132	0.00152	28.18469	26.71226	0.2915886	0.162919	0.2759131	0.112994
0.033162	0.041	13.87232	14.79355	0.8175446	0.7512925	0.6727966	-0.07849582
0.047842	0.02161	16.6543	13.20187	0.8646194	0.7565663	0.8415428	0.08497659
0.043301	0.02518	15.9892	13.63501	0.1112248	0.0585435	0.1152345	0.05669101
0.021884	1.75E-05	47.56701	16.59873	0.7146604	0.37874	0.294631	-0.08410902
0.047387	0.01542	18.11961	13.24343	0.8577744	0.7536634	0.8292021	0.07553867
0.00363	0.00528	22.7702	24.4015	0.4130797	0.6830928	0.3897046	-0.2933882
0.006679	0.00111	29.56633	21.75272	0.5793286	0.6374107	0.5796445	-0.05776619
0.000405	0.00027	35.65053	33.93076	0.1229356	0.0552841	0.1053865	0.05010241
0.020411	0.04276	13.68922	16.90131	0.7792528	0.8438139	0.7675858	-0.07622808
0.000259	3.51E-06	54.54884	35.86188	0.8301547	0.9051823	0.8384718	-0.06671049
0.035847	0.02263	16.45359	14.45543	0.746348	0.863484	0.7604156	-0.1030685
0.010049	0.00245	26.10248	19.97878	0.1341132	0.053956	0.1088053	0.05484929
0.000462	9.42E-05	40.25948	33.35512	0.7652279	0.8923226	0.7932185	-0.09910408
0.015345	0.01503	18.22989	18.14038	0.1534903	0.0994225	0.1512004	0.05177791
0.010772	0.00029	35.44412	19.67713	0.7883116	0.8475764	0.7772744	-0.07030198
0.038161	0.00508	22.94049	14.18385	0.2244814	0.498278	0.6261389	0.1278609
0.003507	0.00894	20.48499	24.55081	0.8643991	0.780076	0.6841224	-0.09595358
0.001958	0.00165	27.81857	27.08135	0.2196953	0.1332523	0.2114255	0.07817324
0.039499	0.00034	34.71082	14.03415	0.8009638	0.6411405	0.5826839	-0.05845659
0.00045	8.18E-06	50.87276	33.46572	0.3566688	0.4770704	0.4043429	-0.07272751
0.044324	0.00309	25.09751	13.53361	0.0534417	0.3912928	0.5147876	0.1234947
0.041569	0.00021	36.87025	13.81232	0.0816867	0.5519457	0.6619154	0.1099697
0.003791	0.00734	21.34317	24.21226	0.4198367	0.6051952	0.3752063	-0.2299889
0.007867	0.01162	19.34824	21.04166	0.7197316	0.7829929	0.6796122	-0.1033807
0.022454	0.00815	20.88664	16.48713	0.833792	0.7613927	0.6875479	-0.07384486

0.000182	0.00297	25.26745	37.40157	0.8846617	0.9469671	0.8671599	-0.07980724
0.016705	0.02159	16.65742	17.77154	0.6402277	0.764145	0.6321203	-0.1320248
0.005577	0.01325	18.77924	22.53628	0.7475212	0.8589261	0.737985	-0.1209411
0.020702	0.0492	13.08019	16.83981	0.5956981	0.7045419	0.6301774	-0.07436449
0.042324	0.03123	15.05416	13.73415	0.682687	0.8226423	0.7035577	-0.1190847
0.011659	0.0058	22.36736	19.33341	0.7560376	0.6675337	0.7429371	0.07540336
0.002119	0.0001	39.94041	26.73853	0.6713933	0.7628791	0.6639879	-0.09889124
0.003954	0.00015	38.14462	24.02933	0.8753224	0.7422176	0.6682751	-0.07394257
0.039795	0.00843	20.74398	14.00174	0.4638849	0.3453525	0.4165085	0.07115597
0.016392	0.00382	24.18027	17.85376	0.3755696	0.4695455	0.3915804	-0.07796509
0.001497	3.21E-05	44.92968	28.24747	0.1700497	0.048775	0.1103117	0.06153673
0.000508	0.01682	17.74074	32.94426	0.5747871	0.5109945	0.3745134	-0.1364811
0.016319	0.01039	19.83565	17.8732	0.8469781	0.7389435	0.8359417	0.09699825
0.00348	0.00299	25.238	24.58392	0.0514074	0.3466508	0.1240116	-0.2226392
0.003975	0.01469	18.32838	24.00687	0.2660498	0.1949926	0.2838255	0.08883292
0.00036	4.74E-05	43.24255	34.43937	0.1776546	0.0981125	0.1708363	0.07272374
0.018511	0.00693	21.58969	17.32576	0.5511141	0.6314396	0.5677672	-0.06367238
0.026057	0.04634	13.34041	15.84074	0.7538343	0.8106349	0.7426493	-0.06798564
0.007713	0.00624	22.05102	21.12798	0.5694718	0.6705585	0.5710488	-0.09950964
0.021129	0.03938	14.04678	16.75119	0.5255082	0.5844898	0.5105571	-0.07393282
0.014857	0.00436	23.60096	18.28082	0.7749073	0.6850742	0.7512742	0.06619999
0.027495	0.018	17.44616	15.6075	0.7860258	0.7204234	0.7780937	0.05767034
0.025385	0.01423	18.46799	15.95415	0.7831691	0.6765509	0.5575774	-0.1189734
0.003679	0.02314	16.35585	24.34261	0.7546472	0.6024891	0.3870487	-0.2154404
0.000667	0.00088	30.56817	31.75568	0.7567021	0.8326489	0.7400455	-0.09260345
0.042308	0.02487	16.0433	13.73577	0.5694815	0.678222	0.5891637	-0.08905824
0.00495	0.00055	32.6003	23.05358	0.107888	0.4669067	0.6205103	0.1536036
0.002178	0.00172	27.63518	26.61984	0.8669283	0.9338969	0.8790392	-0.05485765
0.012559	0.00723	21.4101	19.01043	0.188483	0.1182401	0.1779989	0.05975881
0.002188	0.00313	25.04659	26.59907	0.6746663	0.8280094	0.6747496	-0.1532599
0.010747	0.02137	16.70174	19.68723	0.4384	0.5788074	0.4077415	-0.1710658
0.023299	0.01164	19.34175	16.32666	0.8572013	0.7230719	0.6223449	-0.100727
0.027589	1.87E-06	57.28031	15.59257	0.102078	0.407346	0.5168641	0.1095181
0.0235	0.00386	24.13391	16.28932	0.8550294	0.7240014	0.6436741	-0.08032735
0.009943	0.015	18.24029	20.02475	0.7410485	0.6427211	0.5443596	-0.09836151
2.81E-06	8.22E-06	50.84948	55.50684	0.7477866	0.8533113	0.7389531	-0.1143582
0.003694	0.00084	30.77766	24.32542	0.7043569	0.8067322	0.7147585	-0.09197371
0.044771	0.03611	14.42328	13.49002	0.6151385	0.6854461	0.6194776	-0.06596848
0.002859	0.00519	22.85026	25.43783	0.406957	0.5158898	0.4119746	-0.1039152
1.69E-05	2.27E-05	46.44585	47.73242	0.4525796	0.5970563	0.4631765	-0.1338797
0.014127	0.01954	17.09105	18.49952	0.4543333	0.5425925	0.4507056	-0.09188693
0.012591	0.01254	19.01604	18.99929	0.9001448	0.9521208	0.8961136	-0.05600721
0.004321	0.00302	25.20188	23.64414	0.7307452	0.860443	0.7419087	-0.1185343
0.001819	1.25E-06	59.0418	27.40206	0.100188	0.4745026	0.5955178	0.1210152
4.10E-05	5.34E-06	52.72167	43.87022	0.722404	0.8341924	0.72177	-0.1124224
0.008105	0.00268	25.72577	20.91244	0.8652646	0.7120045	0.5665963	-0.1454082
0.001189	0.0011	29.60042	29.24901	0.5997003	0.7425703	0.6132286	-0.1293418
0.005896	0.00149	28.26409	22.29475	0.1863583	0.0804322	0.1592651	0.07883284
0.018747	7.86E-05	41.04775	17.27068	0.0604824	0.5876675	0.7134337	0.1257662
0.006968	0.00894	20.48624	21.56874	0.8373907	0.9104414	0.840192	-0.07024936
0.004964	0.00221	26.55687	23.04184	0.7775076	0.6934921	0.7670647	0.07357263
0.040623	0.00519	22.84822	13.9123	0.7174998	0.5762791	0.6585674	0.08228826
0.00299	0.00076	31.1902	25.24336	0.2440306	0.1662785	0.2388785	0.07260001
0.015205	0.00961	20.17229	18.18019	0.5607901	0.3976671	0.5426102	0.1449431

0.011948	0.00179	27.46313	19.22703	0.3648231	0.257122	0.3328786	0.07575661
0.029075	0.03136	15.03603	15.36483	0.4106716	0.5829903	0.6936859	0.1106955
0.000413	5.11E-05	42.92	33.84104	0.8152478	0.8964811	0.8266352	-0.06984591
0.04454	0.02042	16.89969	13.51245	0.8989353	0.7946666	0.8737568	0.07909023
0.01132	0.00061	32.12429	19.46164	0.8997629	0.7548906	0.6736875	-0.08120312
0.002355	0.00326	24.86322	26.27993	0.7674835	0.8542157	0.7494096	-0.1048062
0.000356	0.00012	39.21385	34.48021	0.6662966	0.7783054	0.6711954	-0.10711
0.000509	6.72E-07	61.72388	32.93575	0.4447592	0.7052967	0.8017596	0.09646294
0.032348	0.00558	22.53283	14.90152	0.8087104	0.6132115	0.720736	0.1075245
0.027741	0.03394	14.69325	15.56883	0.594519	0.6659834	0.5934771	-0.07250625
0.000219	9.16E-05	40.38179	36.59233	0.8553718	0.7744613	0.8568556	0.08239429
0.008508	0.01187	19.25689	20.70177	0.7689261	0.8509938	0.76427	-0.08672381
0.015003	0.00073	31.35253	18.23813	0.9023472	0.826299	0.7608936	-0.06540541
0.001783	0.00048	33.14339	27.48913	0.194101	0.1235043	0.1749319	0.05142765
0.036252	0.03202	14.94543	14.40673	0.8888084	0.783284	0.8876033	0.1043193
0.000312	0.00022	36.49043	35.05681	0.839716	0.9244493	0.844779	-0.07967035
0.041039	0.0365	14.3766	13.86804	0.9565451	0.7896231	0.6418087	-0.1478145
0.003055	0.0378	14.2254	25.15024	0.9808581	0.9132332	0.7931728	-0.1200604
0.045102	0.00878	20.56351	13.45807	0.8300235	0.7160988	0.7836594	0.06756058
0.001312	0.00596	22.25045	28.82216	0.7736706	0.723139	0.7836264	0.06048737
0.0168	0.03041	15.17029	17.74693	0.7004438	0.6094615	0.7159417	0.1064801
0.028963	0.00364	24.38491	15.38153	0.1177995	0.2955612	0.1861296	-0.1094317
0.023326	0.00349	24.57414	16.32167	0.9142451	0.7960643	0.7130029	-0.08306145
0.000759	0.00055	32.56447	31.19744	0.1731628	0.0866201	0.156746	0.07012592
0.012389	0.00451	23.4613	19.06965	0.0818638	0.3160661	0.4830546	0.1669885
0.044115	0.01799	17.4491	13.55414	0.8355912	0.724494	0.8068519	0.08235797
0.013184	0.00887	20.52094	18.79938	0.8849201	0.7582871	0.634869	-0.1234181
0.034533	0.00289	25.38803	14.61767	0.8272187	0.5389878	0.657707	0.1187192
0.017217	0.04658	13.31779	17.64037	0.7429387	0.825045	0.7223825	-0.1026625
0.003091	0.00023	36.34764	25.09936	0.4527102	0.5746184	0.6520874	0.07746899
0.001176	0.00196	27.07197	29.2957	0.7571873	0.8565211	0.7532787	-0.1032425
0.002073	0.00465	23.32111	26.83346	0.6831558	0.7825693	0.6780249	-0.1045445
0.024383	0.01169	19.32059	16.12918	0.9184088	0.758356	0.8770528	0.1186967
0.009796	0.00385	24.14062	20.08944	0.893104	0.579441	0.3284897	-0.2509513
0.002217	0.00084	30.77284	26.5423	0.76818	0.8466315	0.7806125	-0.06601906
0.020415	0.01488	18.2727	16.90059	0.7122251	0.7709645	0.716486	-0.05447855
0.0126	0.00066	31.82084	18.99619	0.8543406	0.7966138	0.6805843	-0.1160295
0.000774	0.00012	39.1974	31.11315	0.766988	0.884232	0.8188533	-0.06537875
0.032555	0.01557	18.07724	14.87387	0.685699	0.778457	0.7079115	-0.07054547
0.000236	0.00043	33.69613	36.27573	0.8710744	0.9364521	0.8618227	-0.0746294
0.010292	0.01466	18.33958	19.87513	0.7246161	0.8564999	0.7133705	-0.1431294
0.004633	0.00448	23.48445	23.34111	0.4399458	0.5856189	0.4117199	-0.1738989
0.030055	1.77E-05	47.5303	15.22079	0.0481421	0.1469811	0.2491574	0.1021763
0.008016	0.01358	18.67032	20.96044	0.5534	0.6329674	0.5377821	-0.09518532
0.008053	0.00969	20.13748	20.94033	0.0739988	0.2468	0.391351	0.144551
0.039731	0.00512	22.90643	14.00872	0.5737315	0.7691924	0.6757249	-0.09346745
0.041621	0.03167	14.99287	13.80683	0.7912029	0.6279411	0.4899149	-0.1380262
0.008011	0.00271	25.66651	20.9632	0.7532846	0.8745287	0.7788089	-0.09571984
0.002268	0.00894	20.48476	26.4433	0.7129614	0.7933885	0.707107	-0.08628152
0.010869	0.00687	21.63038	19.63803	0.7941341	0.5633575	0.3613729	-0.2019846
0.026095	0.00295	25.30318	15.83449	0.0634155	0.2424115	0.3289956	0.08658404
0.011275	0.00922	20.35451	19.47883	0.8729844	0.8178977	0.8786192	0.06072148
0.009631	0.01241	19.06361	20.16331	0.6690756	0.7809298	0.6672838	-0.113646
0.015287	0.02314	16.35689	18.15668	0.8453161	0.7483703	0.6437911	-0.1045793

1.57E-06	1.33E-06	58.77777	58.03463	0.2510568	0.128259	0.2198236	0.09156465
0.001471	0.00565	22.48215	28.32417	0.7239574	0.8074966	0.6806242	-0.1268724
0.001477	0.00034	34.62226	28.3064	0.8301316	0.7633046	0.8176051	0.05430048
0.002606	0.00028	35.50928	25.84099	0.6415576	0.725139	0.6601298	-0.06500924
0.005461	0.00443	23.53443	22.62743	0.8864773	0.9461791	0.8907934	-0.05538564
0.003155	0.00071	31.46877	25.00966	0.2334084	0.3816124	0.4866861	0.1050737
0.04613	0.00377	24.23645	13.36012	0.8508315	0.7600797	0.6940078	-0.06607192
0.001577	0.02068	16.84361	28.02038	0.8968813	0.8462208	0.9013878	0.05516699
0.006746	0.00507	22.94834	21.70979	0.6739941	0.8345945	0.6945431	-0.1400514
0.038875	0.00084	30.7656	14.10328	0.1062348	0.1708067	0.2501125	0.07930577
0.008685	0.00246	26.08236	20.61225	0.5236038	0.6180639	0.5363989	-0.08166497
0.039306	0.01578	18.01775	14.0554	0.6286551	0.5334405	0.6032595	0.06981906
0.036219	0.03263	14.86418	14.41068	0.8896432	0.7499527	0.8769259	0.1269733
0.009964	0.00935	20.29224	20.01555	0.5161513	0.6262498	0.5272759	-0.09897392
0.010426	0.02683	15.71444	19.81882	0.8010946	0.8815525	0.7872764	-0.09427609
0.000692	0.00354	24.5085	31.59946	0.6141312	0.467979	0.2447405	-0.2232385
0.016066	0.02219	16.53782	17.94091	0.8711511	0.7767103	0.645386	-0.1313243
0.015122	3.25E-05	44.87504	18.20394	0.636759	0.9442581	0.8652965	-0.07896154
0.034642	0.00568	22.46004	14.60393	0.836787	0.7538151	0.8083277	0.05451266
0.00483	0.02128	16.72065	23.16083	0.6822205	0.7369081	0.6658792	-0.0710289
0.017488	0.00583	22.34401	17.5726	0.9098683	0.8307909	0.8854566	0.05466566
0.009695	0.00297	25.26672	20.13442	0.9122441	0.837522	0.8979612	0.06043917
0.004702	0.0008	30.96486	23.27695	0.9035484	0.8293728	0.8825288	0.05315603
0.000136	0.00012	39.36269	38.67586	0.8099279	0.7419187	0.8066011	0.06468246
0.003331	0.01196	19.22238	24.77382	0.6479793	0.7155977	0.6227607	-0.0928371
0.000292	0.00074	31.31172	35.35023	0.5596876	0.6589423	0.7182991	0.05935673
0.001838	0.0138	18.60259	27.35606	0.6750559	0.7441419	0.6444117	-0.09973019
0.000353	0.00072	31.45033	34.52096	0.8877544	0.8320523	0.8974997	0.06544744
0.021926	0.03224	14.91597	16.59038	0.7008481	0.7841253	0.6942344	-0.08989093
0.014999	0.00274	25.61933	18.23946	0.1992757	0.0925339	0.1557207	0.06318685
0.015784	0.01084	19.64947	18.0179	0.7716969	0.6754711	0.7618062	0.08633505
0.02964	0.03548	14.50032	15.28122	0.5523511	0.6091716	0.5483293	-0.06084232
0.028402	0.02399	16.20044	15.46657	0.3607367	0.2861384	0.3510477	0.06490929
0.001399	0.00036	34.43372	28.5428	0.299771	0.0827994	0.2737702	0.1909708
0.006078	0.00205	26.88227	22.16254	0.3044659	0.3721767	0.4246159	0.05243912
0.010609	0.01841	17.34859	19.74325	0.5039595	0.6481075	0.4930444	-0.1550631
0.00522	0.00124	29.05043	22.82316	0.6665394	0.7602658	0.7040077	-0.05625808
0.002146	6.34E-06	51.97675	26.68284	0.4044844	0.3438882	0.4035221	0.05963393
0.018312	1.90E-05	47.2051	17.37269	0.8430643	0.6661277	0.7173622	0.05123456
0.010854	0.00246	26.09098	19.64423	0.6660833	0.4615173	0.6026082	0.1410909
0.01433	4.29E-05	43.67678	18.43765	0.10426	0.2839171	0.392688	0.1087709
0.005714	0.01083	19.65235	22.43097	0.6877216	0.7806881	0.6750914	-0.1055967
0.018195	0.02707	15.67513	17.40039	0.7847154	0.8717952	0.7780376	-0.09375757
0.003117	0.00057	32.44207	25.06329	0.8079826	0.8788466	0.8255684	-0.0532782
0.033806	5.13E-05	42.89896	14.71012	0.0660788	0.2014778	0.2900829	0.08860514
0.025523	0.01423	18.46922	15.93063	0.1493004	0.388352	0.5746929	0.1863409
0.01386	0.044	13.56579	18.58247	0.0897953	0.182831	0.3064377	0.1236066
4.47E-05	7.78E-05	41.0903	43.4943	0.5737291	0.6785894	0.579771	-0.0988184
0.018858	0.01676	17.75819	17.24509	0.1476756	0.0967675	0.1469897	0.05022221
0.006417	0.01141	19.42598	21.927	0.6114643	0.6961469	0.6065162	-0.08963069
0.046436	5.37E-05	42.70175	13.33143	0.104547	0.4726809	0.5688655	0.09618466
0.029803	0.00253	25.96624	15.25741	0.5161837	0.6614938	0.5840568	-0.07743707
0.021118	0.01654	17.81384	16.75338	0.8383468	0.7676747	0.8218288	0.05415413
0.039176	0.01544	18.1131	14.06977	0.6889257	0.5629454	0.6293847	0.06643929

0.03802	0.00183	27.3693	14.19984	0.2037483	0.306964	0.3833274	0.07636338
0.012967	0.02668	15.73875	18.8716	0.0723134	0.1807434	0.299533	0.1187896
0.014722	0.01029	19.87396	18.32042	0.2582059	0.1430566	0.2484969	0.1054403
0.039727	0.02378	16.2381	14.0091	0.733379	0.7967551	0.7433584	-0.05339674
0.00142	0.00084	30.77221	28.47593	0.7924484	0.8958295	0.8130828	-0.08274669
0.033357	0.02107	16.76383	14.76814	0.1996562	0.1332359	0.1894768	0.05624093
0.007411	0.00094	30.25326	21.30101	0.8424883	0.641805	0.7639168	0.1221118
0.002186	0.01014	19.94013	26.60424	0.1283701	0.2296823	0.403889	0.1742067
0.015145	7.51E-08	71.24294	18.19737	0.5109544	0.918705	0.8341911	-0.0845139
0.037032	0.00393	24.05084	14.31419	0.9171326	0.8640334	0.7521405	-0.1118929
0.000958	0.00066	31.82216	30.18732	0.7187886	0.880381	0.7165811	-0.1638
0.027068	0.01134	19.45348	15.67551	0.4422605	0.6127607	0.4817535	-0.1310071
9.62E-05	0.00249	26.03022	40.16689	0.6380474	0.7408908	0.6010421	-0.1398487
0.004793	0.00078	31.08784	23.19405	0.8531973	0.9306456	0.8622707	-0.06837499
0.04768	0.0095	20.22298	13.2166	0.8970859	0.7483068	0.6455573	-0.1027495
0.018273	0.00256	25.91384	17.38186	0.7686911	0.6648334	0.7207654	0.05593197
0.042507	0.03197	14.95243	13.71537	0.8982035	0.7922181	0.8871666	0.09494839
0.008029	0.00084	30.74717	20.95332	0.3889454	0.578604	0.4814894	-0.09711461
0.00161	0.00138	28.60353	27.93055	0.0224432	0.1002088	0.0167677	-0.08344108
0.003056	0.00084	30.7543	25.14838	0.8085158	0.7103316	0.7880732	0.07774159
0.001743	0.00261	25.82734	27.58722	0.0397629	0.105096	0.203175	0.09807905
0.000944	0.02554	15.92696	30.25193	0.1401962	0.0803999	0.1623744	0.08197452
0.049502	0.00194	27.11094	13.0538	0.4864996	0.3281192	0.256292	-0.07182714
0.034866	0.00489	23.10384	14.57594	0.1882233	0.0957425	0.1531442	0.05740171
0.011318	0.00419	23.78053	19.46223	0.1950634	0.1215363	0.1882987	0.0667624
0.001966	0.00018	37.53918	27.06492	0.6148094	0.7332169	0.6279419	-0.105275
0.000962	0.00084	30.75104	30.16913	0.6176012	0.6829507	0.6210276	-0.06192301
0.002195	0.00585	22.32653	26.58564	0.4284655	0.2973616	0.4385859	0.1412243
0.046998	5.77E-06	52.38682	13.2792	0.8729109	0.6951742	0.748995	0.05382088
0.009613	0.004	23.97569	20.17155	0.8963	0.8163928	0.8741908	0.05779798
0.018192	0.00184	27.35763	17.40108	0.4573066	0.62577	0.7082912	0.08252117
0.020852	3.30E-05	44.8136	16.80845	0.1288069	0.3058201	0.3791435	0.07332343
0.008855	0.02756	15.59797	20.52816	0.8707258	0.7808952	0.6591427	-0.1217525
0.021543	0.02192	16.59238	16.66691	0.8889629	0.8128436	0.6809032	-0.1319404
0.001971	0.00435	23.61965	27.05271	0.6129125	0.7943038	0.6058848	-0.188419
0.027674	0.03656	14.37006	15.57929	0.7525401	0.6856697	0.7627298	0.07706008
0.029399	3.25E-06	54.87965	15.31662	0.0716048	0.2919275	0.4154678	0.1235403
0.000726	0.0076	21.19324	31.39101	0.752504	0.8218274	0.7153249	-0.1065025
0.001011	0.00929	20.3201	29.95256	0.9049119	0.8493932	0.7224304	-0.1269628
0.012196	0.02319	16.34709	19.1379	0.6576405	0.5722206	0.4685833	-0.1036373
0.002179	0.00021	36.68975	26.617	0.7611845	0.6497111	0.5386408	-0.1110703
0.013624	0.00023	36.44819	18.65693	0.8148582	0.6259296	0.7130408	0.08711123
0.021942	0.02219	16.53787	16.5873	0.4051309	0.4770376	0.4035422	-0.07349534
0.000346	0.00056	32.54712	34.60743	0.8349589	0.9319518	0.8518242	-0.08012755
0.043706	0.00071	31.50029	13.59455	0.5572647	0.3922961	0.4627952	0.07049914
0.012369	7.24E-08	71.402	19.07654	0.8415896	0.3930894	0.4995471	0.1064577
0.045305	0.00782	21.07002	13.43851	0.9003651	0.7048902	0.821987	0.1170969
0.039658	0.00264	25.77721	14.01669	0.7162073	0.5812523	0.6554193	0.07416701
0.000276	3.27E-05	44.85334	35.59609	0.7487759	0.8513725	0.7341495	-0.1172229
0.026793	0.04247	13.71904	15.71972	0.3074259	0.2115358	0.1284764	-0.08305935
0.008671	0.0002	37.08935	20.6195	0.9069178	0.6998419	0.5938979	-0.105944
0.040272	0.01087	19.6375	13.94997	0.8497567	0.7904541	0.7262761	-0.06417805
0.040575	0.04631	13.34338	13.91745	0.8361467	0.8978	0.8251361	-0.07266385
0.00521	0.00078	31.05556	22.8317	0.1609205	0.074556	0.1488833	0.07432728



0.025657	0.00243	26.15253	15.90801	0.7502287	0.6569663	0.7111866	0.05422022
0.021502	0.02308	16.3668	16.67527	0.3378873	0.2077415	0.3387533	0.1310117
0.04836	0.04119	13.85233	13.15513	0.8621461	0.7704364	0.8558111	0.08537468
0.030052	0.02785	15.55243	15.22124	0.8516903	0.7698461	0.6787795	-0.09106655
0.027074	0.00243	26.14219	15.67445	0.7987975	0.6992973	0.7611597	0.06186238
0.006008	0.00123	29.11071	22.21278	0.8138851	0.7245792	0.7954628	0.07088364
0.030836	0.03089	15.10153	15.10941	0.7899308	0.656714	0.5331852	-0.1235287
0.042862	0.01099	19.58955	13.67924	0.0531379	0.4642262	0.6975507	0.2333244
0.048579	0.00554	22.562	13.1355	0.7912534	0.6468117	0.7256959	0.07888426
0.009419	0.00547	22.61818	20.2598	0.3157932	0.201235	0.2965591	0.09532404
0.040806	0.00631	22.00165	13.89276	0.1993523	0.330139	0.405459	0.07531998
0.043839	0.00343	24.64954	13.5814	0.0539078	0.2925467	0.4240444	0.1314977
0.029778	0.02381	16.23199	15.26101	0.7760835	0.8328574	0.7774768	-0.05538057
0.025646	0.01833	17.36743	15.90977	0.5376876	0.6316742	0.548852	-0.08282214
0.024659	0.00166	27.80082	16.08029	0.7045011	0.5565802	0.6940649	0.1374846
0.019111	0.00252	25.98996	17.18728	0.8546815	0.7573075	0.8221315	0.064824
0.032968	3.84E-05	44.15257	14.81903	0.7587082	0.6118801	0.5555004	-0.05637968
0.004246	0.00467	23.30825	23.72027	0.7448989	0.8662747	0.760865	-0.1054097
0.016647	0.00899	20.46336	17.78675	0.8887934	0.7989319	0.8754822	0.07655026
0.002312	5.58E-07	62.53571	26.35945	0.0712244	0.3154415	0.3896792	0.07423779
0.001533	0.00026	35.91515	28.14591	0.9233494	0.8503203	0.9128454	0.06252512
0.015308	0.01907	17.19635	18.1509	0.8585891	0.9171534	0.8616892	-0.05546421
0.024253	0.02706	15.676	16.15234	0.5080404	0.6062996	0.5067582	-0.09954137
0.014085	0.02059	16.86414	18.5124	0.7337835	0.8210251	0.728518	-0.09250705
0.020921	0.00872	20.59525	16.79409	0.0923723	0.3830895	0.581494	0.1984046
0.015833	0.0161	17.93257	18.00443	0.5825448	0.674144	0.5797392	-0.09440482
0.014816	0.00952	20.21321	18.29281	0.6354216	0.7428506	0.6503043	-0.09254636
0.033325	0.02632	15.7972	14.77229	0.6926683	0.8425814	0.7056807	-0.1369007
0.001884	0.00152	28.19036	27.24896	0.7062842	0.8368676	0.7128274	-0.1240403
5.62E-06	6.16E-07	62.10365	52.50098	0.1376624	0.0464117	0.1213098	0.07489813
0.00493	0.00354	24.51081	23.07149	0.05357	0.2714449	0.4215621	0.1501171
0.034562	0.0167	17.77224	14.61407	0.7601383	0.8637701	0.7793633	-0.08440688
0.003579	0.0012	29.20098	24.4621	0.8376313	0.9222015	0.8495492	-0.07265218
0.027026	3.41E-07	64.67621	15.68214	0.5123084	0.8386367	0.7879747	-0.05066204
0.003804	0.00016	38.06818	24.19704	0.8774182	0.9361348	0.8775783	-0.05855654
0.012006	0.01199	19.21307	19.20605	0.501185	0.4021717	0.4906417	0.08846992
0.001682	0.01041	19.82597	27.74269	0.4710976	0.5250962	0.4453222	-0.07977398
0.001289	0.00048	33.19766	28.8959	0.8924369	0.9538417	0.8578454	-0.09599629
0.021707	0.00199	27.00801	16.6341	0.4296779	0.5716518	0.6323426	0.0606908
0.024883	0.04112	13.85972	16.04096	0.0731953	0.207315	0.3673166	0.1600015
0.006418	0.00338	24.70853	21.92584	0.822585	0.6727076	0.8039072	0.1311996
0.005553	0.0073	21.36677	22.5546	0.5032987	0.6737311	0.4959857	-0.1777455
0.016947	7.96E-06	50.9913	17.70918	0.8910464	0.7136472	0.653652	-0.05999522
0.028765	0.02088	16.80289	15.4114	0.1044036	0.2066904	0.3107465	0.104056
0.003021	0.00232	26.34245	25.19852	0.8073311	0.8864343	0.8109913	-0.07544293
0.001201	0.00252	25.97942	29.20404	0.435254	0.5038071	0.4252024	-0.07860468
0.04175	0.03805	14.19699	13.79343	0.9090191	0.7452868	0.8991098	0.153823
0.000449	0.00018	37.3885	33.47395	0.0593505	0.5345314	0.7283377	0.1938063
0.026753	3.82E-06	54.17677	15.72624	0.1345333	0.2875516	0.3508165	0.06326485
0.030522	0.00767	21.15069	15.1538	0.5630142	0.3233289	0.2448706	-0.07845826
0.008809	0.00019	37.1303	20.55068	0.6982157	0.4234136	0.5599949	0.1365813
0.017119	0.00711	21.47934	17.66527	0.3571972	0.4956585	0.5676323	0.07197382
0.048434	0.00013	39.02384	13.14852	0.7962404	0.6378222	0.5376549	-0.1001673
0.023382	0.00723	21.41035	16.31116	0.7343081	0.5167661	0.6529053	0.1361392

0.007118	0.00886	20.52764	21.47651	0.7680662	0.8301893	0.7617882	-0.06840108
0.002725	0.00135	28.69782	25.64628	0.19198	0.0904109	0.1743218	0.0839109
0.000558	0.00034	34.65631	32.53679	0.8046209	0.87204	0.8071696	-0.06487039
0.013063	0.01942	17.11718	18.83963	0.7062172	0.7729611	0.6923796	-0.08058158
0.030395	0.03425	14.6528	15.17199	0.8691422	0.816871	0.8738779	0.05700693
0.001502	0.03541	14.50901	28.2339	0.9039078	0.8342898	0.6998091	-0.1344807
0.00979	0.01277	18.93948	20.09221	0.442455	0.3472602	0.443661	0.0964008
0.004109	6.83E-05	41.65353	23.86289	0.7221652	0.3751339	0.5440054	0.1688715
0.001688	0.00461	23.36423	27.72599	0.1664891	0.0923107	0.1648145	0.07250378
0.035399	0.0042	23.76958	14.51012	0.0729668	0.5325468	0.769577	0.2370302
0.000577	9.65E-07	60.15387	32.38938	0.8229259	0.5138687	0.4486157	-0.06525297
0.005221	0.01046	19.80297	22.8226	0.5702659	0.6818073	0.5692835	-0.1125238
0.006924	0.01558	18.07355	21.59655	0.8445156	0.9200951	0.8278983	-0.0921969
0.003195	0.00417	23.80316	24.95596	0.2814982	0.3621404	0.2771374	-0.08500298
0.013603	0.00842	20.74818	18.66353	0.0376245	0.1437918	0.259115	0.1153233
0.019256	0.00313	25.04941	17.15428	0.7037196	0.5596393	0.6483576	0.0887184
0.045033	0.04647	13.32835	13.4647	0.2247073	0.1712903	0.2257606	0.05447026
0.010175	0.01105	19.56647	19.92459	0.5150047	0.632517	0.5161783	-0.1163387
0.04941	0.01541	18.12325	13.06186	0.0505845	0.1839308	0.3040665	0.1201357
0.030554	8.73E-05	40.58762	15.14934	0.8213964	0.5081518	0.6153303	0.1071785
0.028515	0.02303	16.3778	15.44924	0.7902001	0.8713746	0.7977706	-0.07360408
0.008084	0.01438	18.4225	20.92393	0.618365	0.7056038	0.6079792	-0.0976246
4.58E-05	0.00064	31.94778	43.38838	0.8282794	0.9169951	0.8000818	-0.1169133
0.014407	0.04154	13.81551	18.41414	0.2771062	0.2119803	0.3007166	0.08873634
0.020862	0.01153	19.38252	16.80638	0.4114839	0.1815528	0.3592615	0.1777087
0.014756	0.04486	13.48186	18.31037	0.7292657	0.7936221	0.7049958	-0.08862633
0.0021	0.00076	31.17167	26.77845	0.8133805	0.8964894	0.8258675	-0.07062186
0.036154	0.00511	22.91509	14.41849	0.7921286	0.6159865	0.4787152	-0.1372712
0.023894	0.02786	15.5496	16.21716	0.2544788	0.1630653	0.2673776	0.1043124
0.005828	0.00011	39.4123	22.3448	0.8622125	0.8054053	0.7458538	-0.05955147
0.007542	8.61E-06	50.64874	21.22492	0.475633	0.7004542	0.7737041	0.07324986
0.005606	0.00231	26.36089	22.51379	0.8591679	0.9185488	0.8656782	-0.05287068
0.002306	0.00044	33.59707	26.37166	0.3548079	0.2282279	0.3306469	0.102419
0.000358	0.0013	28.86489	34.45723	0.6112899	0.7301254	0.5750308	-0.1550946
0.021858	0.01257	19.00735	16.60381	0.7468327	0.6585081	0.7347531	0.0762451
0.006953	0.04096	13.87648	21.5782	0.2177526	0.3763768	0.5197179	0.1433411
0.040293	0.00131	28.8118	13.94765	0.634736	0.7741871	0.8409429	0.06675579
0.006386	0.00223	26.51581	21.94777	0.9089525	0.8078043	0.8792098	0.07140549
0.001766	0.00771	21.13006	27.53122	0.9008378	0.9608967	0.8984029	-0.0624938
0.0208	0.01411	18.50437	16.81943	0.8645439	0.9319561	0.876945	-0.05501102
0.039204	0.00061	32.17775	14.06666	0.2707748	0.6538681	0.7788274	0.1249594
0.03645	0.03568	14.47576	14.38299	0.4375085	0.3541665	0.440823	0.08665644
0.028006	0.00227	26.43981	15.52744	0.2806153	0.4922961	0.596368	0.1040718
0.028668	0.02678	15.72255	15.42597	0.5042946	0.5760908	0.5090685	-0.0670222
0.040243	0.02961	15.28507	13.95314	0.8740433	0.7150061	0.5624861	-0.15252
0.024198	0.01213	19.1598	16.16225	0.0991643	0.1559486	0.100255	-0.05569355
0.009524	0.00064	31.94404	20.2116	0.8154116	0.6600568	0.7494465	0.08938958
0.031828	0.00102	29.89942	14.97191	0.7854447	0.6509909	0.708379	0.05738809
0.030982	0.01072	19.69621	15.08891	0.8120661	0.7206854	0.7905684	0.06988303
0.031752	0.01761	17.54169	14.98226	0.3910681	0.242311	0.3633821	0.1210711
0.01229	0.00153	28.15473	19.10448	0.0610749	0.3032824	0.4118307	0.1085482
0.010072	0.00341	24.6673	19.96872	0.8311282	0.9068008	0.8500285	-0.05677237
0.000656	0.00207	26.8313	31.83086	0.6416983	0.7904319	0.6637831	-0.1266487
0.000336	0.00043	33.69409	34.73923	0.6264513	0.7718526	0.6279517	-0.1439008

0.001342	0.00247	26.07934	28.72107	0.8564879	0.7941864	0.8491259	0.05493956
0.004559	0.0005	32.98067	23.41157	0.2177036	0.3511358	0.4413996	0.09026379
0.017722	0.01862	17.29951	17.51488	0.6826933	0.7874817	0.6870478	-0.100434
0.010614	0.00562	22.50473	19.74132	0.6235379	0.694388	0.6417426	-0.0526454
0.010146	0.01958	17.08149	19.93689	0.0994578	0.0465721	0.1076147	0.06104257
0.002356	0.01197	19.21752	26.27772	0.7949201	0.8960146	0.7553334	-0.1406812
0.000744	0.00061	32.15467	31.28375	0.7851834	0.8787866	0.7824983	-0.09628832
0.006361	3.41E-05	44.67743	21.96457	0.8473294	0.5544242	0.4174237	-0.1370005
0.016152	0.00329	24.82146	17.91765	0.9172151	0.7839382	0.8647454	0.08080719
0.000238	0.00145	28.38543	36.24202	0.681016	0.7686729	0.6633792	-0.1052937
0.042156	0.00383	24.16542	13.7514	0.0719032	0.2227578	0.3242329	0.1014752
0.033506	0.02288	16.40567	14.74874	0.6293956	0.721844	0.6378185	-0.08402544
0.00018	0.00137	28.61699	37.45359	0.5302324	0.4778076	0.5471563	0.06934873
0.012222	0.00993	20.02877	19.12863	0.8666763	0.7483467	0.8517864	0.1034396
0.000468	0.00121	29.17348	33.29994	0.6867315	0.8919769	0.6949485	-0.1970284
0.007935	0.00513	22.90173	21.00465	0.6090583	0.6869846	0.6247231	-0.06226157
0.002006	0.00069	31.58416	26.97587	0.0842745	0.1526982	0.1002287	-0.05246952
0.026096	0.0001	39.79453	15.83432	0.8379402	0.6789352	0.7420835	0.06314836
0.000694	0.00016	37.92389	31.58556	0.1321649	0.0492703	0.1114159	0.06214558
0.036971	0.00546	22.62562	14.32144	0.8733585	0.8130975	0.7228413	-0.09025624
0.000164	3.66E-06	54.36295	37.86016	0.1930609	0.1020054	0.1603987	0.05839324
0.032033	0.0039	24.08809	14.94402	0.849311	0.7395354	0.6615487	-0.07798671
0.002361	0.00268	25.71291	26.26829	0.1655203	0.0844863	0.159701	0.07521478
0.015694	0.01859	17.30781	18.04278	0.0771379	0.1324537	0.2404357	0.107982
0.000614	0.00016	37.8515	32.1186	0.6383373	0.7836838	0.6673546	-0.1163292
0.008841	0.00034	34.64	20.53475	0.7595612	0.5615028	0.6437107	0.08220788
0.008044	0.01328	18.76925	20.94549	0.2191999	0.3274119	0.2021082	-0.1253037
0.014008	6.52E-05	41.85599	18.53612	0.1508079	0.0771725	0.18756	0.1103875
0.049504	0.00245	26.11453	13.05358	0.0631478	0.4099064	0.5214589	0.1115525
0.005029	0.00341	24.66992	22.98526	0.6781976	0.8563398	0.7038385	-0.1525013
0.046436	0.00554	22.56336	13.33146	0.0880759	0.4055769	0.5455677	0.1399908
2.90E-05	8.69E-05	40.60758	45.3766	0.3864772	0.4803798	0.378191	-0.1021888
0.019141	0.01187	19.25708	17.18038	0.0706657	0.2102642	0.3325003	0.1222361
0.046895	0.00019	37.11117	13.2887	0.1632154	0.5016231	0.5962981	0.09467501
0.024025	0.00016	37.83828	16.19339	0.7645879	0.6495054	0.7010196	0.05151414
0.008379	0.00142	28.48127	20.76805	0.8537039	0.7357442	0.6270859	-0.1086582
0.018149	0.00046	33.3575	17.41153	0.8089868	0.6649194	0.5713843	-0.09353513
0.001518	0.00713	21.47052	28.18789	0.8397881	0.7821655	0.8601908	0.07802524
0.029993	0.01983	17.02764	15.22977	0.8449091	0.9137822	0.8549418	-0.05884036
0.016623	0.01849	17.32963	17.79289	0.6378409	0.7622151	0.6358535	-0.1263615
0.019888	1.49E-06	58.26493	17.01408	0.5955087	0.9397708	0.8731872	-0.06658357
0.005121	0.00754	21.22649	22.90637	0.8899336	0.9508298	0.8823953	-0.0684345
0.048681	0.00904	20.43927	13.12642	0.8781406	0.7660875	0.6922362	-0.07385137
0.000792	0.00126	28.98776	31.01317	0.2625934	0.1095792	0.2346256	0.1250464
0.009726	0.03925	14.06111	20.12077	0.5599827	0.6385371	0.4863758	-0.1521613
0.007229	0.00351	24.54767	21.40903	0.0980132	0.1688777	0.1081274	-0.06075033
0.047671	0.00129	28.89801	13.2175	0.7549332	0.5689636	0.4902254	-0.07873821
0.002816	3.44E-05	44.62878	25.50293	0.8175031	0.6493762	0.5388273	-0.1105489
0.046951	0.01252	19.02302	13.28354	0.0810842	0.3558721	0.5138462	0.1579741
0.041099	0.02427	16.14903	13.86164	0.8829583	0.8239307	0.8748543	0.05092357
0.045474	0.0197	17.05621	13.42235	0.8015712	0.6631166	0.7713191	0.1082025
0.027835	0.00868	20.61232	15.55402	0.9111106	0.8330862	0.887697	0.05461085
0.03114	0.01012	19.94666	15.06678	0.9244015	0.7966987	0.7037225	-0.09297627
3.25E-05	0.00056	32.54693	44.87719	0.6873131	0.7949539	0.668101	-0.1268529

0.001502	0.00029	35.43884	28.23256	0.5113313	0.392547	0.4809577	0.08841071
0.008758	0.00252	25.98776	20.57572	0.7040419	0.5940855	0.6723789	0.07829344
0.008859	4.46E-05	43.51143	20.52637	0.7869319	0.9193799	0.8362314	-0.08314852
0.033945	0.00028	35.46318	14.69226	0.1309835	0.2286118	0.2842422	0.05563042
0.00171	0.0013	28.87716	27.66997	0.8450791	0.9061534	0.8313379	-0.07481553
0.030775	0.00609	22.15736	15.11797	0.6502041	0.726339	0.6725844	-0.05375464
0.001421	0.00101	29.95949	28.47456	0.6515493	0.7806391	0.6337306	-0.1469085
0.019114	0.00038	34.23722	17.18638	0.5854794	0.7727724	0.6871521	-0.08562025
0.017353	2.11E-06	56.76009	17.6062	0.2290485	0.7750351	0.8304984	0.05546323
0.040129	0.04097	13.87537	13.96539	0.8213327	0.76476	0.8228415	0.05808153
0.010919	0.01753	17.56202	19.61829	0.7312685	0.6627187	0.5874962	-0.07522254
0.000148	2.19E-05	46.60321	38.28591	0.84086	0.9342821	0.8655223	-0.06875981
0.020087	0.00435	23.6178	16.97092	0.7580919	0.6180487	0.7140566	0.09600796
0.007879	0.00515	22.88209	21.03551	0.813355	0.736046	0.6564384	-0.07960755
0.013252	0.02608	15.83629	18.77719	0.0894352	0.182071	0.0695767	-0.1124943
0.008879	0.00073	31.38799	20.5166	0.8669262	0.7738201	0.8343099	0.06048977
0.028618	0.01572	18.03586	15.43358	0.5670981	0.7287346	0.6069634	-0.1217712
0.019521	0.00194	27.12494	17.09494	0.8421298	0.6312217	0.525283	-0.1059386
0.049614	0.01277	18.93838	13.04398	0.777384	0.7142136	0.656799	-0.05741454
0.036146	0.0002	36.96429	14.41937	0.5070739	0.8843445	0.7738171	-0.1105273
0.005438	0.00781	21.07199	22.64572	0.5618267	0.6210371	0.5564858	-0.06455126
0.013263	0.0002	37.0467	18.77359	0.3891563	0.6156541	0.692305	0.07665092
0.045735	0.02512	16.00046	13.39748	0.5127146	0.6009811	0.6748676	0.07388654
0.007254	0.00958	20.18746	21.39426	0.5916869	0.5263995	0.5925251	0.06612556
0.000541	2.77E-05	45.57933	32.66683	0.6853949	0.8154274	0.7234909	-0.09193649
0.026715	0.01429	18.44971	15.7325	0.4537969	0.5271361	0.4644408	-0.06269537
0.016269	0.03695	14.32369	17.88627	0.5180998	0.5932348	0.4984826	-0.0947523
0.013627	8.17E-05	40.87769	18.65602	0.0942749	0.4482569	0.5306701	0.08241321
0.009704	0.006	22.22105	20.1307	0.7710856	0.6898831	0.7653345	0.07545144
0.022943	0.01113	19.53637	16.39354	0.158146	0.0910973	0.1470896	0.05599234
0.039636	0.04942	13.06054	14.01907	0.0369035	0.1143002	0.0317204	-0.08257977
0.028723	0.02755	15.59861	15.41766	0.9129224	0.8481702	0.9097878	0.06161762
0.043806	0.00332	24.79278	13.58464	0.7186479	0.824508	0.8756025	0.05109452
0.040276	0.00375	24.25935	13.94948	0.7480953	0.5644727	0.6675979	0.1031252
0.00191	4.72E-05	43.26215	27.19003	0.1903008	0.3585878	0.4791302	0.1205424
1.68E-05	2.58E-06	55.8834	47.74368	0.082043	0.020657	0.0708873	0.05023029
0.009179	0.01999	16.99095	20.37193	0.6631144	0.7711678	0.6343834	-0.1367844
0.023197	0.00053	32.78183	16.34577	0.0733606	0.2755889	0.1793796	-0.09620931
0.040576	0.00265	25.76856	13.91732	0.8663952	0.7624719	0.6927537	-0.06971817
5.16E-05	1.31E-08	78.84119	42.87228	0.7339877	0.9272381	0.7790092	-0.1482289
0.042149	1.53E-05	48.14484	13.75214	0.3597248	0.680952	0.6083251	-0.07262687
0.000159	0.00097	30.15222	37.9849	0.6134347	0.7195981	0.6015286	-0.1180694
0.019161	0.00884	20.53677	17.17578	0.8771137	0.7651356	0.8568999	0.09176425
0.010862	0.00957	20.18943	19.64083	0.8189781	0.8914347	0.8210095	-0.07042523
0.000552	0.00173	27.62203	32.58139	0.7593692	0.8573381	0.7537398	-0.1035983
0.001012	0.00022	36.57051	29.94853	0.5611128	0.448216	0.5388604	0.09064444
0.039487	0.02442	16.12227	14.0355	0.1455125	0.2136911	0.2737308	0.06003962
0.040847	0.01433	18.437	13.88844	0.7844728	0.8540828	0.8034062	-0.05067661
0.00559	1.06E-05	49.74506	22.52556	0.7210881	0.5222363	0.4410728	-0.0811636
5.71E-05	1.10E-05	49.58939	42.4373	0.8785465	0.8176331	0.8809795	0.06334638
0.016744	0.02179	16.61765	17.76133	0.2787226	0.2136243	0.285476	0.07185175
0.004611	0.00728	21.37803	23.36236	0.8063021	0.8647023	0.8009163	-0.06378607
0.006753	0.00404	23.93795	21.705	0.5614942	0.6390459	0.580485	-0.05856093
0.041608	0.03258	14.87034	13.80828	0.8785111	0.7924617	0.8703488	0.07788713

0.021179	0.00204	26.89892	16.74101	0.8719639	0.5932117	0.4598079	-0.1334037
0.049175	0.0033	24.81468	13.08254	0.4156039	0.3031995	0.3543274	0.0511279
0.007834	0.00012	39.11435	21.06029	0.879119	0.5326482	0.4222182	-0.11043
0.022299	0.02589	15.86795	16.51723	0.8702065	0.7447602	0.6141262	-0.1306339
0.011531	0.00463	23.34461	19.38145	0.3162869	0.2311669	0.3039318	0.07276494
0.007398	0.00433	23.63897	21.30899	0.833829	0.7342167	0.8111847	0.07696794
0.039658	0.00402	23.96075	14.01666	0.8786559	0.5852839	0.4614095	-0.1238744
0.027867	5.18E-05	42.85562	15.54905	0.5468315	0.3930973	0.451221	0.05812373
7.06E-05	0.00043	33.68805	41.51196	0.0825698	0.030834	0.0856584	0.05482441
0.030999	0.00022	36.63295	15.08648	0.1305151	0.4508772	0.5367364	0.0858592
0.007316	0.00805	20.94306	21.35711	0.8974267	0.7267504	0.5797428	-0.1470076
0.00097	0.00427	23.69951	30.13197	0.8401678	0.8982175	0.821852	-0.07636555
0.044164	0.04707	13.27216	13.54935	0.6456565	0.7210999	0.6468914	-0.07420855
0.017506	0.01414	18.49559	17.56823	0.1571032	0.081042	0.143556	0.062514
0.048495	0.00723	21.40742	13.14306	0.7723215	0.6033975	0.5023321	-0.1010654
0.013505	0.00967	20.14594	18.69511	0.3580707	0.2450337	0.3498696	0.104836
0.036981	0.02383	16.22813	14.32024	0.7655377	0.8476644	0.7753832	-0.07228121
0.029642	0.02611	15.83235	15.28089	0.7146071	0.6645995	0.6066708	-0.05792865
0.019923	0.00454	23.43408	17.00641	0.8376634	0.7437398	0.8106735	0.06693367
0.040753	0.01468	18.33273	13.89845	0.4506855	0.2983668	0.4129336	0.1145668
0.001472	0.00202	26.94774	28.32129	0.8343675	0.6806733	0.5180399	-0.1626333
0.006329	0.0043	23.6674	21.98634	0.1288163	0.0740087	0.1294646	0.05545584
0.008946	0.01358	18.6719	20.48351	0.8562311	0.9183716	0.8494293	-0.06894232
0.000261	0.0012	29.19851	35.8386	0.9189913	0.8032938	0.6590392	-0.1442546
0.036869	0.03017	15.20454	14.33344	0.8672765	0.6750768	0.8517365	0.1766597
0.041936	0.00019	37.12154	13.77415	0.8114464	0.4730369	0.3535958	-0.1194412
0.010157	0.0156	18.06946	19.93238	0.6765339	0.7920361	0.6701852	-0.1218509
0.034521	0.00162	27.90014	14.61911	0.8962417	0.5759035	0.4409859	-0.1349176
0.030166	0.0324	14.89442	15.20478	0.8406446	0.7799996	0.8414713	0.06147172
0.000277	3.39E-07	64.69798	35.56973	0.2892124	0.1348509	0.2509755	0.1161246
0.039728	0.00191	27.1886	14.00905	0.794891	0.6300066	0.7117379	0.08173133
0.026159	0.04512	13.45663	15.82385	0.8398018	0.7743291	0.8526865	0.07835744
0.000176	1.18E-06	59.27155	37.54509	0.175263	0.407864	0.283173	-0.124691
0.000922	0.03206	14.93984	30.35443	0.7477733	0.8250254	0.7305844	-0.09444091
0.001388	0.00137	28.63503	28.57684	0.171757	0.086379	0.1526438	0.06626483
0.021649	0.03189	14.96307	16.64561	0.609938	0.7338707	0.6021818	-0.1316889
0.032163	0.00086	30.66474	14.92646	0.7024038	0.5608633	0.6337292	0.07286588
0.007156	0.01216	19.14974	21.45348	0.5876498	0.7470219	0.5723062	-0.1747157
0.01718	0.01883	17.25173	17.64988	0.0822336	0.1657939	0.0802354	-0.08555854
0.037957	0.01291	18.89238	14.20709	0.9107062	0.8415213	0.8917728	0.05025148
0.034074	0.00985	20.06555	14.67576	0.7232218	0.5883328	0.6879914	0.09965862
0.01705	0.00519	22.84857	17.68269	0.8276899	0.7569101	0.6919562	-0.06495396
0.045164	0.01103	19.5734	13.45207	0.8107885	0.7154891	0.7774675	0.06197829
0.011348	0.0054	22.6798	19.45097	0.8280612	0.9127733	0.8523482	-0.06042504
0.019149	0.0181	17.4241	17.17845	0.8617898	0.8048605	0.8628641	0.05800365
0.022082	0.00444	23.52909	16.55961	0.7823355	0.642029	0.5404922	-0.1015368
0.024236	0.00465	23.32836	16.15534	0.7688016	0.6167663	0.5055861	-0.1111802
0.012	0.00459	23.37911	19.20814	0.8378907	0.7708926	0.7136632	-0.05722944
0.033024	0.01153	19.38166	14.81176	0.5817635	0.6924953	0.61659	-0.07590532
0.000589	0.00067	31.74009	32.29576	0.4012803	0.4924335	0.3888508	-0.1035827
0.01066	0.00161	27.93071	19.72255	0.9121789	0.835943	0.7826829	-0.05326017
0.038204	0.03764	14.2433	14.17889	0.3293561	0.2735712	0.326157	0.05258588
0.00473	0.00778	21.08769	23.25151	0.8375909	0.9128786	0.8362201	-0.07665846
0.004531	0.00218	26.61662	23.43837	0.8573025	0.7588176	0.8331979	0.0743803

0.005826	0.01294	18.87996	22.34617	0.3979909	0.4508843	0.3880594	-0.06282489
0.04112	0.04853	13.13959	13.85944	0.1923794	0.1272425	0.1956847	0.06844227
0.045395	0.01962	17.07251	13.42993	0.7481817	0.6300098	0.7330992	0.1030894
0.00114	1.66E-05	47.78856	29.43001	0.0611684	0.1603725	0.1021512	-0.05822126
0.004947	0.0005	33.04844	23.0564	0.116528	0.0485075	0.1023576	0.05385013
0.042502	3.91E-06	54.07916	13.71586	0.7456967	0.3580511	0.2800593	-0.07799178
0.027788	0.02676	15.72457	15.56136	0.9268109	0.7853392	0.6551594	-0.1301798
0.001734	0.00011	39.58566	27.60934	0.8078646	0.6986926	0.7670754	0.06838278
0.031349	0.00234	26.31357	15.0377	0.8914064	0.7713589	0.8245581	0.05319924
0.008721	0.02097	16.78333	20.59451	0.8967807	0.8033396	0.6417043	-0.1616354
0.013348	0.00268	25.71245	18.74569	0.8584764	0.8003312	0.7368516	-0.06347958
0.027491	0.00987	20.0584	15.60812	0.8989286	0.7852778	0.8662002	0.08092238
0.015349	0.00763	21.17198	18.13907	0.411336	0.3403711	0.3996753	0.05930419
0.018154	0.03894	14.09552	17.41034	0.4950902	0.5709872	0.4747148	-0.0962724
0.004592	0.00019	37.17212	23.37963	0.4580213	0.2678447	0.3689712	0.1011265
0.017179	0.01769	17.52252	17.65009	0.3864406	0.300478	0.3828981	0.0824201
0.035808	0.00957	20.19215	14.46023	0.0994545	0.2092252	0.3001867	0.09096145
0.015232	0.00018	37.479	18.1725	0.7063724	0.5826856	0.6447104	0.06202476
0.000819	0.00055	32.58802	30.8677	0.8605322	0.9193835	0.8653393	-0.05404418
0.003508	0.00271	25.66807	24.54992	0.6521009	0.7199394	0.6618156	-0.0581238
0.000116	0.00029	35.41493	39.37175	0.6351709	0.72859	0.630592	-0.09799803
0.001875	0.00148	28.28879	27.26926	0.1701681	0.0829751	0.1625353	0.0795602
0.037501	0.00363	24.39969	14.25953	0.1916567	0.3249088	0.4535633	0.1286545
0.019436	0.02729	15.64016	17.11401	0.5106646	0.6776513	0.4911107	-0.1865407
0.009155	0.01018	19.92162	20.38331	0.7308315	0.6695062	0.731925	0.06241884
0.005486	0.00826	20.83144	22.60721	0.6061261	0.5445667	0.4798311	-0.06473558
0.007847	0.00623	22.05172	21.05282	0.9546415	0.7426443	0.5893399	-0.1533044
0.041674	0.00248	26.04941	13.80137	0.42939	0.5375172	0.6065525	0.06903532
0.011854	0.00053	32.71797	19.26118	0.2273037	0.5400552	0.7001501	0.1600949
0.00357	0.00189	27.23378	24.47274	0.9598814	0.7509388	0.6343992	-0.1165395
0.0155	0.01953	17.09369	18.09666	0.4408694	0.5285179	0.4320613	-0.09645657
0.005332	0.00064	31.97193	22.73115	0.765412	0.8645213	0.7803842	-0.08413706
0.038506	0.00399	23.98688	14.14475	0.22736	0.4418845	0.5357858	0.09390137
0.00878	0.01483	18.29003	20.565	0.8920674	0.973091	0.8888795	-0.08421148
0.018271	0.00445	23.51674	17.38247	0.8562289	0.7136802	0.6214383	-0.09224187
0.031738	0.02025	16.93545	14.98419	0.8675373	0.7549134	0.8467452	0.09183171
0.001196	0.00012	39.36415	29.22409	0.2403783	0.1163025	0.1973251	0.08102262
0.010285	0.03178	14.97792	19.87783	0.7016315	0.7827392	0.679197	-0.1035422
0.043356	0.0249	16.03801	13.62951	0.88311	0.8172112	0.7159947	-0.1012165
0.026252	0.0258	15.88443	15.80831	0.3616799	0.2771874	0.3609034	0.08371592
0.000771	0.00031	35.07546	31.13153	0.8663242	0.7196031	0.626746	-0.09285707
0.028172	7.79E-07	61.08285	15.50179	0.4861054	0.7254434	0.776753	0.05130964
0.023248	0.01204	19.19221	16.33618	0.7834441	0.8686642	0.772453	-0.09621119
2.81E-06	1.32E-05	48.8099	55.51286	0.7263245	0.9126498	0.7283621	-0.1842877
0.00246	0.00023	36.42693	26.09072	0.8421268	0.934017	0.8661252	-0.06789174
0.030953	0.00869	20.61083	15.09295	0.7753837	0.6657741	0.737158	0.0713839
0.000216	6.75E-06	51.70922	36.66018	0.2058196	0.3275947	0.4343221	0.1067274
0.00033	0.00024	36.11816	34.81794	0.5730435	0.6652102	0.5686486	-0.09656163
0.002976	0.0002	36.93917	25.26398	0.8177986	0.706761	0.7900848	0.08332387
2.65E-05	1.30E-05	48.87582	45.76573	0.7529391	0.8539734	0.758801	-0.09517238
0.006275	0.01106	19.56117	22.024	0.6193411	0.6865559	0.6099947	-0.07656112
9.29E-05	0.00015	38.29136	40.31779	0.1754071	0.093343	0.1822376	0.08889464
0.013466	0.00739	21.31335	18.70768	0.0507509	0.2053996	0.3174222	0.1120226
0.035013	0.00707	21.5036	14.55773	0.9545318	0.615492	0.4409137	-0.1745783

6.87E-05	0.00016	37.97618	41.62754	0.7906536	0.8714978	0.7782904	-0.09320737
0.046982	0.01999	16.99252	13.28069	0.9027579	0.6719723	0.5030897	-0.1688826
0.016023	0.02646	15.77351	17.95257	0.4163693	0.5804532	0.4033722	-0.1770809
0.038422	2.58E-05	45.87573	14.1542	0.7620146	0.4309946	0.5569372	0.1259426
0.000164	3.96E-06	54.02786	37.86158	0.1657637	0.0492852	0.1482318	0.09894665
0.035791	0.04124	13.8468	14.4623	0.8251701	0.89711	0.8210317	-0.07607831
0.00035	0.00183	27.36951	34.56419	0.6557968	0.7726253	0.6220627	-0.1505626
0.007314	0.03958	14.02499	21.35823	0.6944132	0.7446581	0.6690205	-0.07563756
0.003015	0.003	25.2353	25.20773	0.0571488	0.3210091	0.4931311	0.172122
0.029554	0.03583	14.45784	15.29389	0.9076648	0.8370859	0.9083971	0.07131114
0.006975	0.01337	18.73801	21.56479	0.7876437	0.6979017	0.595236	-0.1026656
0.010737	0.00071	31.50695	19.69121	0.2554201	0.1020138	0.1830176	0.08100372
0.014102	0.01615	17.91698	18.5071	0.5796699	0.7309508	0.5807634	-0.1501874
0.038035	0.00014	38.57044	14.19812	0.3726332	0.5599952	0.5079046	-0.05209065
0.029317	0.00324	24.88796	15.32885	0.1334223	0.2130608	0.1569028	-0.05615795
0.049387	0.04742	13.24008	13.06391	0.3444231	0.2115034	0.3410676	0.1295642
0.045622	0.0159	17.98724	13.40825	0.8403147	0.6564302	0.5384495	-0.1179808
0.026542	0.0005	32.9951	15.76066	0.8380562	0.701395	0.6142814	-0.08711354
2.62E-05	2.57E-05	45.89782	45.81608	0.1936571	0.0823353	0.1771455	0.09481014
0.001567	0.00137	28.64717	28.04989	0.6435661	0.7045463	0.6372764	-0.06726987
0.004241	0.00074	31.33669	23.72559	0.1945613	0.1091966	0.1839577	0.07476114
0.001556	0.00576	22.39562	28.08105	0.6341097	0.7061808	0.6066932	-0.09948749
0.03163	0.00869	20.61047	14.99902	0.914983	0.8025237	0.8743076	0.07178393
0.011158	0.00856	20.67286	19.52397	0.5610282	0.636558	0.5736971	-0.06286081
0.047251	0.00013	38.93805	13.25585	0.788644	0.9268111	0.8637468	-0.06306425
0.005107	0.00012	39.29459	22.91866	0.7565396	0.8663456	0.7709371	-0.0954085
0.003732	0.00344	24.63192	24.28049	0.1763868	0.087636	0.1768136	0.08917762
0.043494	0.03581	14.45938	13.61569	0.31335	0.239965	0.3420306	0.1020656
0.049179	0.03048	15.16039	13.08219	0.1216189	0.206174	0.3107709	0.1045968
0.000563	0.00048	33.21449	32.49695	0.1470062	0.0862261	0.1417218	0.05549574
0.000634	0.00125	29.03209	31.97878	0.0842462	0.0233823	0.0779879	0.05460557
0.003255	0.00601	22.20964	24.87465	0.0712162	0.1988793	0.3168969	0.1180176
0.046795	0.01229	19.10363	13.29798	0.074401	0.1878389	0.1178019	-0.07003697
0.003591	0.00272	25.64696	24.4479	0.8550126	0.9381439	0.8666418	-0.07150208
0.027391	0.00043	33.70746	15.6239	0.8579553	0.7775536	0.708721	-0.06883255
0.002079	0.00081	30.93925	26.82083	0.8541697	0.9239454	0.8639417	-0.0600037
0.000121	0.00181	27.4125	39.18489	0.561828	0.6603735	0.5445597	-0.1158138
0.010997	0.01397	18.54828	19.58742	0.5868782	0.6482768	0.582446	-0.06583076
0.01864	0.00605	22.18009	17.29546	0.1271903	0.0619958	0.1176419	0.05564609
0.01945	0.00309	25.09417	17.11073	0.9220133	0.7718627	0.6880843	-0.08377844
0.033377	0.00451	23.45594	14.76553	0.7912522	0.6586083	0.7385648	0.07995658
0.020657	0.03177	14.97984	16.84935	0.556388	0.7241519	0.5258163	-0.1983356
0.010634	0.00586	22.32388	19.733	0.2102181	0.3929447	0.5202281	0.1272835
0.028791	0.02264	16.45198	15.40736	0.8000142	0.7305576	0.7977526	0.06719498
0.039384	0.00832	20.79865	14.04676	0.0541144	0.2364293	0.3319662	0.09553694
0.027178	0.0001	39.87561	15.65785	0.8270168	0.7276257	0.6587086	-0.06891701
0.000707	4.95E-05	43.04963	31.50434	0.7926313	0.5667853	0.427651	-0.1391343
0.023689	0.02622	15.81425	16.25456	0.6765729	0.7788977	0.6734897	-0.105408
0.020983	0.01506	18.22052	16.78127	0.6134033	0.6809731	0.6133588	-0.06761426
0.031201	0.00537	22.69859	15.05833	0.6303276	0.7267088	0.793842	0.06713329
0.013384	0.00065	31.87044	18.734	0.8518756	0.7529585	0.6779493	-0.07500917
0.000541	0.00039	34.11262	32.6711	0.8815085	0.9511853	0.8855588	-0.06562649
0.030773	0.04329	13.63608	15.11829	0.867624	0.8076363	0.8716545	0.06401822
0.01945	0.00132	28.79459	17.11085	0.739477	0.5055662	0.6264696	0.1209033

3.28E-05	0.00095	30.24058	44.84262	0.5942725	0.6517976	0.5475543	-0.1042433
0.000224	0.00016	37.87172	36.49609	0.3682547	0.2842563	0.3564874	0.07223107
0.000232	0.00011	39.65472	36.34594	0.8749704	0.9450727	0.8743736	-0.07069911
0.026116	0.0016	27.96159	15.83088	0.0825755	0.1723224	0.2669997	0.09467731
0.001183	0.00262	25.8124	29.26847	0.6460301	0.8040375	0.6175781	-0.1864593
0.004976	0.03161	15.00236	23.03157	0.8446102	0.921536	0.8007812	-0.1207548
0.041135	0.00046	33.40051	13.85789	0.7226215	0.5052429	0.4267615	-0.07848132
0.02296	0.01749	17.57161	16.39034	0.452343	0.5508075	0.6596934	0.1088859
0.009534	0.02753	15.6023	20.20714	0.7496286	0.831811	0.7289094	-0.1029016
0.005243	0.0068	21.67496	22.80439	0.7910464	0.8880423	0.7930127	-0.09502961
0.006622	0.01244	19.05157	21.79023	0.6852052	0.765458	0.6808634	-0.08459469
0.02105	0.04483	13.48397	16.76741	0.1161202	0.1679311	0.1033335	-0.06459755
0.024633	0.00499	23.01955	16.08483	0.7439655	0.6117167	0.5321775	-0.07953924
0.038941	0.0171	17.67119	14.09597	0.7748138	0.8673221	0.8023505	-0.06497163
0.027822	0.02234	16.50915	15.55614	0.9042605	0.8489261	0.9001576	0.05123146
0.041525	0.02689	15.70398	13.81693	0.8173	0.8803629	0.825103	-0.05525982
0.025551	0.0307	15.12899	15.92593	0.591787	0.6872524	0.5913632	-0.09588923
0.006508	0.00027	35.65237	21.8652	0.8496131	0.7642872	0.676051	-0.08823629
0.021098	0.027	15.68696	16.75763	0.3829519	0.5205419	0.6493504	0.1288085
0.020609	0.00164	27.85799	16.8594	0.8020241	0.5348922	0.3943299	-0.1405623
0.046001	0.01113	19.53657	13.37235	0.90486	0.7988783	0.7260926	-0.07278566
0.014803	0.00595	22.2576	18.29664	0.8913884	0.7586486	0.859104	0.1004554
0.04429	0.03856	14.13895	13.53696	0.7080143	0.5885053	0.6507237	0.06221833
5.95E-05	7.91E-05	41.01566	42.25504	0.1833135	0.1215208	0.1762688	0.05474792
0.005581	0.0091	20.40816	22.53288	0.5973664	0.6555164	0.5920547	-0.06346175
2.61E-05	4.24E-08	73.72658	45.82886	0.2697335	0.1381482	0.2645519	0.1264037
0.005414	0.00227	26.44547	22.66463	0.0502181	0.2173413	0.3371599	0.1198186
0.000476	0.00101	29.94058	33.22844	0.8280607	0.8999908	0.822888	-0.07710276
0.041039	0.03384	14.70507	13.86808	0.9072685	0.8361276	0.9008506	0.06472305
0.027191	0.02289	16.40405	15.65569	0.829343	0.6229578	0.4320155	-0.1909422
0.009385	1.05E-05	49.78377	20.27576	0.0939145	0.515029	0.6366469	0.121618
0.028548	0.00072	31.44064	15.44426	0.0912451	0.4620098	0.5865687	0.1245589
0.007872	0.01758	17.54969	21.03919	0.8621499	0.6948732	0.5131402	-0.181733
0.00051	0.01235	19.08437	32.9243	0.1393069	0.0515705	0.1093766	0.05780616
0.001443	0.00311	25.06901	28.4084	0.8386116	0.7763177	0.6988571	-0.07746057
0.021764	0.01499	18.24155	16.62264	0.7906983	0.591159	0.4700221	-0.1211368
4.10E-05	0.00012	39.0765	43.8692	0.596229	0.771651	0.5964166	-0.1752345
0.006223	0.00294	25.31136	22.06015	0.081475	0.1636147	0.0985423	-0.06507237
0.000225	0.01954	17.09171	36.47509	0.8196739	0.7601938	0.6422751	-0.1179187
0.041362	0.0007	31.5426	13.83399	0.8248762	0.3886925	0.5303707	0.1416782
0.017557	0.00793	21.00726	17.5554	0.7499927	0.8727358	0.7796625	-0.09307321
0.010384	0.00772	21.12253	19.8363	0.1698354	0.0994071	0.1646349	0.06522779
0.014972	0.00011	39.66354	18.24724	0.7877328	0.5562975	0.6606647	0.1043672
0.009837	0.00262	25.8192	20.0715	0.5363345	0.7203514	0.6005728	-0.1197786
0.002617	0.00169	27.73237	25.82165	0.226784	0.1290453	0.2303603	0.101315
5.84E-06	1.55E-07	68.10986	52.33846	0.4131982	0.5290903	0.4314948	-0.09759548
0.000827	0.00174	27.59896	30.82623	0.8305213	0.7690961	0.8380842	0.06898811
0.03211	0.00474	23.23965	14.93361	0.0777336	0.1591956	0.2821721	0.1229765
0.005928	0.03546	14.50229	22.27117	0.1019087	0.2039347	0.3497098	0.1457751
0.004274	0.0016	27.96603	23.69167	0.7856593	0.8624671	0.8016362	-0.06083088
0.014227	0.02193	16.59047	18.46896	0.8886409	0.8296857	0.8966566	0.06697081
0.013784	0.00988	20.05396	18.6062	0.2354058	0.1373588	0.2245341	0.08717531
0.009941	0.01423	18.46701	20.02561	0.7851624	0.8531641	0.7891828	-0.06398128
0.001017	0.00089	30.50923	29.9288	0.5975783	0.719309	0.6202314	-0.0990776



0.002652	0.00135	28.68307	25.76349	0.4993817	0.401332	0.486178	0.084846
0.002552	0.04937	13.06578	25.93137	0.5733663	0.6816087	0.464512	-0.2170967
0.000351	0.00068	31.67205	34.54292	0.3220554	0.4267733	0.3215055	-0.1052678
0.016927	0.00189	27.24271	17.71422	0.6530359	0.5175049	0.427878	-0.08962689
0.00393	8.89E-05	40.51058	24.05564	0.5104129	0.3897827	0.4751158	0.08533315
0.007496	0.0036	24.43361	21.2519	0.7684223	0.8824281	0.7806373	-0.1017908
0.002223	0.00021	36.87884	26.53054	0.870171	0.7357535	0.8168838	0.08113035
0.038458	0.01059	19.74903	14.15015	0.9128814	0.7954346	0.8702024	0.07476778
0.045361	0.02729	15.64019	13.43322	0.0417507	0.1467928	0.251493	0.1047003
0.004324	0.00238	26.24021	23.64124	0.2303164	0.1162393	0.2170646	0.1008253
0.01918	0.00115	29.37589	17.17155	0.8943998	0.8025417	0.8542318	0.05169011
0.006671	0.00755	21.21975	21.75797	0.8469121	0.9147893	0.8346485	-0.08014077
0.00276	0.00091	30.39204	25.59088	0.8105298	0.6510283	0.5315136	-0.1195147
0.008937	0.00748	21.25933	20.48829	0.8186502	0.7054154	0.823395	0.1179796
0.034401	0.00018	37.44032	14.63434	0.8002628	0.5610251	0.6501675	0.08914244
0.036708	0.01569	18.04344	14.35244	0.4972287	0.4162875	0.4791921	0.06290463
0.023721	0.00543	22.65515	16.24864	0.8789217	0.7520066	0.6618167	-0.09018994
0.00482	0.00888	20.51427	23.16993	0.8517975	0.9339008	0.8533843	-0.08051646
0.013755	0.02004	16.9817	18.61548	0.725065	0.6235629	0.5058355	-0.1177274
0.032227	8.26E-08	70.83101	14.91787	0.1332848	0.4534552	0.5228794	0.06942415
0.012511	0.01845	17.3401	19.0271	0.1190481	0.0619254	0.1219941	0.06006867
0.007992	0.00021	36.75403	20.97354	0.6237988	0.4045872	0.2979289	-0.1066583
0.01938	0.02392	16.21197	17.12643	0.2234316	0.1655086	0.2252516	0.05974294
0.012111	0.03906	14.08282	19.16836	0.828638	0.9034274	0.8061709	-0.09725644
0.001416	3.67E-06	54.34795	28.49066	0.8222669	0.6361976	0.5458098	-0.09038781
0.017053	0.03539	14.51139	17.68194	0.5821608	0.663568	0.5709605	-0.09260757
0.047131	0.02848	15.45386	13.2669	0.0369748	0.1687476	0.0582062	-0.1105414
0.002487	0.00091	30.40946	26.04407	0.1642802	0.0644118	0.1407336	0.07632177
0.002937	0.00068	31.68906	25.32158	0.8016267	0.6684541	0.770403	0.1019489
0.015218	0.03768	14.23901	18.17638	0.8512862	0.7720238	0.6540742	-0.1179496
0.00015	1.03E-07	69.85916	38.23749	0.215205	0.1186809	0.1906752	0.07199427
0.000792	0.01189	19.24762	31.01377	0.7746611	0.7108414	0.5854658	-0.1253756
0.007505	0.0018	27.44068	21.24639	0.9026247	0.8317858	0.8839735	0.05218773
0.002551	0.00297	25.26694	25.93315	0.4571062	0.607795	0.4402426	-0.1675524
0.025876	0.00119	29.2457	15.87107	0.822558	0.6337739	0.5355662	-0.0982077
0.009533	7.95E-07	60.99366	20.20782	0.103003	0.4121733	0.504218	0.09204473
0.000148	0.00088	30.57423	38.30777	0.8096064	0.885061	0.7732566	-0.1118045
0.00608	0.00609	22.1508	22.16121	0.6251664	0.7974542	0.6370224	-0.1604317
0.034618	0.02728	15.64176	14.60699	0.8585187	0.7200646	0.6015519	-0.1185127
0.019342	0.02031	16.92251	17.13497	0.5564053	0.6933827	0.8383566	0.1449739
9.28E-05	0.00094	30.26975	40.32413	0.6111087	0.7097051	0.5782506	-0.1314545
0.00034	0.00059	32.26957	34.68673	0.2350869	0.1101169	0.2258476	0.1157307
0.033182	0.03625	14.40646	14.79103	0.5724376	0.6972436	0.5668072	-0.1304365
0.000183	0.00048	33.18555	37.3664	0.8311671	0.7730343	0.8281158	0.05508152
0.001431	0.00031	35.05209	28.44338	0.7022067	0.8215701	0.7438669	-0.07770321
0.046612	1.31E-05	48.8395	13.315	0.1196712	0.650493	0.7304408	0.07994774
0.023205	0.01774	17.50983	16.34427	0.6381579	0.7325749	0.6415954	-0.09097947
0.031788	0.01761	17.54352	14.97733	0.6597707	0.7873976	0.6702917	-0.117106
0.031079	0.00308	25.10944	15.07533	0.0717518	0.5292895	0.7090992	0.1798097
0.048793	0.03884	14.10751	13.11639	0.7501561	0.8552235	0.7579736	-0.09724994
0.015843	0.00804	20.94732	18.00152	0.7276453	0.5471269	0.7089537	0.1618267
0.048503	0.00475	23.2285	13.14229	0.8440844	0.7570048	0.6567576	-0.1002472
0.011245	1.67E-06	57.7654	19.49023	0.3259267	0.8216183	0.7428751	-0.07874315
0.007481	2.02E-06	56.95111	21.26039	0.783257	0.4361873	0.5332329	0.09704563

0.026729	0.00024	36.19926	15.73023	0.7008784	0.5766252	0.634475	0.05784981
0.000118	1.64E-06	57.84842	39.26732	0.1145707	0.0473348	0.1006838	0.05334902
0.005403	0.00383	24.16463	22.67403	0.2413151	0.1429477	0.2347479	0.09180015
0.000435	0.00032	34.96913	33.6159	0.8460152	0.9162607	0.8478671	-0.06839358
0.004615	0.00031	35.06977	23.358	0.4350731	0.614518	0.7213947	0.1068767
0.001704	0.00492	23.07656	27.68412	0.6033224	0.4417554	0.3339261	-0.1078293
0.026416	0.00831	20.80462	15.78129	0.3619755	0.593528	0.7720188	0.1784908
0.002376	0.00043	33.68964	26.24169	0.1912329	0.1027221	0.1706205	0.06789842
0.007294	0.00032	34.8946	21.37063	0.5111821	0.7065553	0.6099402	-0.09661507
0.036026	0.00131	28.83577	14.43388	0.7159793	0.5380167	0.6287723	0.09075558
0.003005	0.01396	18.5515	25.22197	0.8302301	0.75048	0.6413046	-0.1091755
0.021276	0.00211	26.76121	16.72109	0.4945712	0.6726079	0.5745019	-0.09810603
0.013518	0.01164	19.34041	18.69091	0.2336101	0.1693435	0.2339717	0.06462815
0.028817	0.02088	16.80276	15.40348	0.8874972	0.8294852	0.8799933	0.05050813
0.021759	0.01253	19.02118	16.62361	0.0997106	0.0251085	0.099885	0.07477647
0.026474	4.43E-05	43.53483	15.77175	0.2814664	0.4622431	0.5249888	0.06274569
0.028781	0.02664	15.74544	15.40896	0.9346304	0.8646466	0.7919551	-0.07269157
0.018575	0.01697	17.70422	17.31075	0.9070361	0.8378888	0.9008375	0.06294875
0.028262	0.04082	13.89077	15.48802	0.5682533	0.654375	0.5610812	-0.09329375
0.011375	0.0197	17.05485	19.44048	0.5355691	0.6146779	0.5259483	-0.08872964
0.007661	0.00563	22.49757	21.15688	0.5996549	0.6957873	0.6027105	-0.09307677
0.004177	0.00941	20.2641	23.79173	0.6764701	0.7277213	0.6651735	-0.06254783
0.011661	0.00982	20.07996	19.33281	0.1960981	0.1156611	0.1890385	0.07337737
0.017593	0.0028	25.529	17.54669	0.8641837	0.7705565	0.8323218	0.06176526
7.91E-05	0.00043	33.71515	41.02047	0.156979	0.1065939	0.1605072	0.05391331
0.032718	0.00215	26.67268	14.85212	0.7760571	0.6782266	0.7357011	0.05747447
0.02693	0.02907	15.36593	15.69772	0.8656604	0.7848998	0.859696	0.07479618
0.000239	0.00018	37.4589	36.20717	0.3301679	0.159979	0.3223284	0.1623493
0.030713	0.00074	31.3304	15.12677	0.5496895	0.8129787	0.7297637	-0.08321496
0.013193	0.00886	20.52334	18.79656	0.7233871	0.5792544	0.7137083	0.1344539
0.031695	0.00808	20.92566	14.99012	0.8724965	0.6689335	0.8028215	0.133888
0.007963	0.00284	25.46116	20.98898	0.866756	0.805789	0.7504106	-0.05537842
0.005431	0.02834	15.47658	22.65147	0.7903313	0.8822169	0.758229	-0.1239879
0.006834	0.00116	29.34145	21.65352	0.4432745	0.3011084	0.404074	0.1029657
0.000361	0.00441	23.55871	34.42585	0.7007729	0.7860934	0.5923709	-0.1937225
0.001475	0.001	29.99278	28.31158	0.2505158	0.1380836	0.2504816	0.112398
0.040139	8.69E-06	50.61044	13.96435	0.174539	0.3621171	0.4157133	0.05359619
0.017139	0.01339	18.73236	17.66009	0.5882707	0.6934096	0.590359	-0.1030505
0.001554	0.02014	16.95856	28.08631	0.5570987	0.6141081	0.5133392	-0.1007689
0.024468	0.01925	17.15657	16.11403	0.1275014	0.2667193	0.1481767	-0.1185426
0.000193	0.00019	37.29857	37.13654	0.5845129	0.6893418	0.5926467	-0.09669521
0.015676	0.02284	16.41321	18.04757	0.5784715	0.3146092	0.6390362	0.3244271
0.014259	0.00896	20.47464	18.45922	0.8656458	0.7249772	0.8387997	0.1138225
0.000173	1.00E-04	40.00002	37.63051	0.2125205	0.1352585	0.2016386	0.06638014
0.000952	0.00473	23.25156	30.2147	0.6842276	0.7961162	0.6587307	-0.1373855
3.60E-06	5.06E-06	52.95446	54.44112	0.1862362	0.1162189	0.1680624	0.05184358
0.022384	7.12E-05	41.47765	16.5006	0.0923389	0.2172142	0.3266788	0.1094646
0.036938	0.00817	20.87671	14.32529	0.856033	0.6780151	0.5418429	-0.1361722
2.12E-05	2.23E-05	46.5083	46.73218	0.5722982	0.66184	0.5784633	-0.08337665
0.034203	0.02382	16.22978	14.6594	0.8363394	0.719432	0.6219462	-0.09748574
0.03864	0.00055	32.58446	14.12965	0.8597157	0.7961227	0.7043102	-0.0918124
0.022408	0.00153	28.16093	16.49601	0.8785753	0.6249195	0.5242295	-0.10069
0.033776	0.00065	31.90325	14.71391	0.8486698	0.6281914	0.704312	0.07612056
0.000352	0.0018	27.43618	34.53578	0.6157602	0.6704004	0.6102961	-0.06010436

0.004188	0.00138	28.61619	23.77954	0.2868464	0.1714377	0.2583739	0.08693621
0.028718	0.01203	19.19844	15.41841	0.1406122	0.2652248	0.3779667	0.1127419
0.000157	0.00011	39.41387	38.0349	0.8442003	0.788785	0.8410084	0.05222343
0.020544	0.00704	21.52374	16.87307	0.1371603	0.0683928	0.1196979	0.05130515
0.046649	0.03306	14.80711	13.31154	0.4414839	0.2264768	0.367945	0.1414681
0.007191	0.00577	22.38794	21.43228	0.2580765	0.1549457	0.2475504	0.09260471
0.000967	0.00111	29.54564	30.14761	0.6404438	0.8097264	0.6665173	-0.1432091
0.008784	0.00079	30.99688	20.56329	0.7184161	0.832386	0.903232	0.07084604
0.027991	0.00601	22.20775	15.52982	0.5889612	0.4955207	0.4170034	-0.07851733
0.038068	0.03717	14.29753	14.19439	0.9171912	0.8566911	0.9153498	0.05865867
0.044471	0.00109	29.63532	13.51924	0.1361972	0.2756563	0.3344786	0.05882224
0.026142	0.04097	13.87522	15.82664	0.6770993	0.7274531	0.6702636	-0.05718948
0.009652	0.01407	18.51768	20.15375	0.7270784	0.8007615	0.719688	-0.08107355
0.042533	1.75E-05	47.57384	13.71276	0.2085083	0.6706977	0.5603818	-0.110316
0.015729	0.01659	17.80097	18.03304	0.622526	0.6871011	0.6222903	-0.06481092
0.046477	0.03805	14.19649	13.32766	0.5059593	0.6250919	0.5149529	-0.1101389
0.013206	0.00146	28.36146	18.79226	0.6708403	0.7610571	0.6981399	-0.06291724
0.04172	0.01656	17.80971	13.79652	0.8490933	0.5225035	0.7481518	0.2256483
0.015294	0.01292	18.88725	18.15493	0.2340519	0.3827615	0.5356146	0.1528531
0.02075	0.00998	20.01008	16.82977	0.0815573	0.2190412	0.1103345	-0.1087068
0.00054	0.0004	33.96231	32.67897	0.719098	0.8894444	0.7370502	-0.1523942
0.008489	0.0031	25.0887	20.71131	0.2319652	0.1566169	0.2153454	0.05872848
8.84E-05	0.0004	34.00221	40.53515	0.5735962	0.6487117	0.5601876	-0.08852413
0.0184	0.00313	25.04998	17.3519	0.6378706	0.5298826	0.5989667	0.06908403
0.000362	0.00021	36.70119	34.4098	0.2994804	0.1880656	0.2796872	0.09162154
3.95E-05	0.00016	37.89653	44.03428	0.7024216	0.862044	0.7036061	-0.158438
0.007406	0.03575	14.46686	21.30439	0.2255965	0.3250769	0.4701841	0.1451072
0.006084	0.0022	26.56799	22.15803	0.1859321	0.095832	0.1656623	0.0698303
0.03454	0.01202	19.20163	14.61677	0.1123591	0.3671113	0.5257631	0.1586518
0.007266	0.00218	26.60641	21.38734	0.2244545	0.3725071	0.4816376	0.1091305
0.00039	0.00131	28.83122	34.08907	0.7052855	0.8187749	0.7042165	-0.1145584
0.016971	0.00748	21.25818	17.703	0.8604941	0.7488052	0.8406722	0.09186696
0.028013	0.02773	15.5704	15.52638	0.0627913	0.2526738	0.0666672	-0.1860066
0.021653	0.03542	14.50802	16.64475	0.8742332	0.8172894	0.7345055	-0.08278379
0.018136	0.04717	13.26345	17.41466	0.2477684	0.3519808	0.489498	0.1375172
0.033262	0.02956	15.29365	14.78049	0.8414364	0.7173102	0.8398537	0.1225434
0.010769	0.04	13.97977	19.67837	0.8237013	0.8753713	0.7795098	-0.09586146
7.86E-05	0.01706	17.67953	41.04575	0.5190874	0.6179081	0.7783957	0.1604876
1.49E-06	2.11E-05	46.76266	58.25495	0.5930683	0.7307247	0.5901332	-0.1405915
0.019333	0.00171	27.68119	17.13692	0.8426337	0.6950345	0.7800675	0.085033
0.011912	0.00347	24.60172	19.24011	0.6461391	0.8128802	0.6828712	-0.130009
0.001142	0.00032	34.99579	29.42313	0.2923399	0.1440763	0.2509189	0.1068426
0.039703	0.00224	26.49982	14.01173	0.883248	0.6035497	0.7086735	0.1051238
0.001475	1.33E-05	48.77768	28.31198	0.4171625	0.7551473	0.6572747	-0.0978726
0.00199	0.02051	16.88049	27.01184	0.7864049	0.7085155	0.5787967	-0.1297188
0.024851	0.01503	18.22946	16.04653	0.7988687	0.6253303	0.6828241	0.05749379
0.000158	1.77E-06	57.5284	38.02359	0.1291336	0.2016481	0.1280903	-0.07355789
0.001096	0.00078	31.05695	29.60164	0.7738538	0.8631577	0.7742273	-0.08893045
0.013334	0.00056	32.52273	18.75029	0.4331338	0.7474312	0.5601398	-0.1872913
0.009835	0.01159	19.35852	20.07227	0.8679414	0.9199531	0.8689979	-0.05095525
0.0071	0.03094	15.09471	21.48733	0.4413888	0.5113028	0.3981637	-0.1131391
0.04882	0.03834	14.16341	13.11405	0.7635736	0.8628598	0.7748458	-0.08801391
0.012492	0.00011	39.406	19.03368	0.8223918	0.9516615	0.8958544	-0.05580712
0.011974	6.74E-05	41.71394	19.21766	0.820689	0.6998381	0.6236948	-0.07614332

0.035923	0.03758	14.25068	14.44625	0.7249001	0.6366307	0.5514898	-0.08514088
0.026378	0.00446	23.50768	15.78765	0.0882752	0.2571352	0.3779973	0.1208621
0.000414	0.00042	33.76041	33.83469	0.6762187	0.7400642	0.6793008	-0.06076337
0.017754	0.02807	15.51832	17.50698	0.8238463	0.7718732	0.8336437	0.06177045
0.001694	0.0023	26.38906	27.71046	0.871923	0.9423984	0.8759526	-0.06644583
0.00039	0.00016	37.95632	34.08873	0.0850326	0.3449574	0.5618487	0.2168913
0.007431	0.00662	21.79239	21.28965	0.7626216	0.8429123	0.7747452	-0.06816709
0.010144	0.0155	18.09794	19.93777	0.6113175	0.6699658	0.6065162	-0.06344963
0.035197	0.03811	14.18995	14.53495	0.4372503	0.5434929	0.4290362	-0.1144567
0.005221	0.00278	25.55602	22.82219	0.1609221	0.1033815	0.1569193	0.05353779
0.046791	0.00591	22.28202	13.29838	0.6467965	0.7774816	0.8449429	0.06746134
0.000368	9.59E-05	40.18343	34.34698	0.7555428	0.869112	0.7760039	-0.09310812
0.043018	0.00013	38.71252	13.66346	0.0730302	0.2963531	0.3491265	0.05277345
0.038369	0.00029	35.39551	14.16025	0.4787122	0.6719834	0.7429283	0.07094491
0.012422	0.00657	21.82115	19.05811	0.809282	0.7352294	0.8042111	0.06898168
3.43E-05	1.13E-05	49.45346	44.64929	0.1412832	0.0836867	0.1370826	0.05339592
0.00969	0.00708	21.49928	20.1367	0.1605611	0.0971313	0.1485355	0.05140427
0.012569	0.01131	19.46433	19.00696	0.7761257	0.8321523	0.7573014	-0.07485091
0.007338	0.00468	23.29684	21.34414	0.8755131	0.7885375	0.7103437	-0.07819386
0.048093	0.01797	17.45379	13.17914	0.7443312	0.5777412	0.6923267	0.1145855
0.001119	0.00223	26.51163	29.51036	0.6315433	0.7598761	0.6431022	-0.1167738
0.03859	0.00773	21.11781	14.13527	0.8425851	0.7296849	0.8045335	0.07484861
0.019838	0.01738	17.60004	17.02503	0.6279194	0.6964859	0.6369632	-0.05952266
0.006274	0.00241	26.17412	22.02465	0.8194094	0.6972162	0.7898767	0.09266056
0.041107	0.00339	24.69771	13.86084	0.9255734	0.7353969	0.6453933	-0.09000362
0.040394	0.00048	33.15661	13.9368	0.8255861	0.5645574	0.6680481	0.1034907
8.56E-05	1.08E-05	49.66061	40.6736	0.4420808	0.5083411	0.4261856	-0.08215549
8.95E-05	0.00022	36.66204	40.48266	0.4459353	0.2535227	0.414598	0.1610754
0.003865	0.00566	22.46845	24.12894	0.692013	0.7704035	0.6885175	-0.08188608
0.002038	0.00079	31.009	26.90828	0.891861	0.9506364	0.891123	-0.05951342
0.000496	0.00023	36.30225	33.04529	0.1578837	0.0757604	0.1564748	0.08071445
0.012598	0.01511	18.20667	18.99712	0.7001434	0.8225812	0.6990927	-0.1234885
0.025383	0.00142	28.46952	15.95463	0.8475903	0.540558	0.6811023	0.1405444
0.002961	0.00457	23.40104	25.28519	0.3614375	0.1840864	0.3600581	0.1759717
0.021203	0.0025	26.02615	16.73608	0.3277077	0.4097187	0.488065	0.07834632
0.039651	0.03108	15.07467	14.01751	0.0720834	0.1559251	0.263849	0.1079239
0.03782	0.00648	21.88156	14.22276	0.8610045	0.7363202	0.8095346	0.07321442
0.007176	0.00881	20.54838	21.44097	0.4627261	0.552251	0.4584396	-0.09381135
0.012458	0.00681	21.66817	19.04537	0.8678339	0.8020104	0.857164	0.05515361
0.004398	0.00377	24.24222	23.56783	0.5911295	0.6534241	0.5882689	-0.06515521
0.01696	0.03466	14.60193	17.70577	0.6052738	0.6662492	0.5943318	-0.07191744
0.011581	0.007	21.55021	19.36239	0.7879532	0.5731486	0.77773	0.2045814
0.028584	0.00086	30.64534	15.43884	0.1940385	0.5011888	0.5931501	0.09196138
0.018045	0.03267	14.85827	17.43634	0.5809465	0.513977	0.5917575	0.0777805
0.044655	0.00128	28.9205	13.50133	0.1844117	0.4830768	0.5906022	0.1075253
0.001883	0.00287	25.42341	27.25125	0.1099888	0.2193265	0.3354781	0.1161516
0.03756	0.00796	20.98898	14.25279	0.0749289	0.2338475	0.3515659	0.1177184
0.002564	0.00014	38.62054	25.91008	0.8297656	0.8883281	0.8319876	-0.05634053
0.018677	0.00137	28.63234	17.28689	0.8260643	0.6893293	0.5851712	-0.1041581
0.000893	9.76E-05	40.10649	30.49105	0.8785676	0.9390453	0.8766539	-0.06239141
0.003155	0.00711	21.4823	25.01023	0.5574982	0.6156788	0.5521255	-0.06355338
0.045566	0.00542	22.66132	13.4136	0.8526866	0.697432	0.7873907	0.08995867
0.014009	0.01372	18.62778	18.53583	0.6025494	0.6924816	0.5986663	-0.09381534
0.014017	0.00021	36.79995	18.53346	0.8037592	0.5398144	0.4393391	-0.1004753

0.035894	0.01159	19.35779	14.44981	0.8507069	0.7755616	0.8305855	0.0550238
0.018857	0.01781	17.49225	17.24519	0.6946119	0.8505744	0.6954058	-0.1551687
0.00015	9.06E-05	40.43063	38.24223	0.1506756	0.0758093	0.1484372	0.07262798
0.046961	1.40E-06	58.53116	13.2826	0.142352	0.2815695	0.3688905	0.08732097
0.022701	0.00264	25.79084	16.43957	0.8373463	0.5163837	0.3673597	-0.149024
0.012227	0.00027	35.70836	19.12679	0.8075613	0.6981513	0.7548687	0.05671743
0.000187	0.00024	36.25269	37.28123	0.6489756	0.7596052	0.6510434	-0.1085619
0.010258	0.01142	19.42486	19.88938	0.8275229	0.623512	0.8130866	0.1895746
0.02646	0.00106	29.73344	15.77403	0.7257552	0.5148728	0.6139789	0.09910606
0.008913	0.01197	19.21888	20.49998	0.7071323	0.8147354	0.7063255	-0.1084099
0.011281	0.00029	35.41702	19.4766	0.1848946	0.3737926	0.2984586	-0.07533409
0.00985	0.00025	36.02708	20.0658	0.9194542	0.8392091	0.9107527	0.0715436
0.015726	0.00024	36.15694	18.03382	0.7800787	0.5875303	0.6593947	0.07186444
0.007359	0.02383	16.2283	21.33154	0.903747	0.8392649	0.697425	-0.1418399
0.011776	0.00052	32.86446	19.29003	0.1995719	0.0928697	0.2573724	0.1645027
0.009482	0.01186	19.26049	20.23114	0.5693843	0.625658	0.5707383	-0.05491967
0.016393	0.00245	26.10244	17.85337	0.0647006	0.2469136	0.366987	0.1200734
0.000747	0.0014	28.53462	31.2689	0.5746536	0.6474199	0.5713488	-0.07607103
0.038509	0.03591	14.44746	14.14439	0.8940144	0.7477662	0.606726	-0.1410402
2.65E-05	1.36E-08	78.65559	45.76298	0.6014104	0.7965648	0.636925	-0.1596398
0.002917	0.00316	24.9983	25.35041	0.5693686	0.6712687	0.5692567	-0.102012
0.00683	0.0005	33.00345	21.65562	0.8244511	0.6597407	0.7684367	0.108696
0.047192	0.00185	27.33941	13.26127	0.8436087	0.7381608	0.8000057	0.0618449
0.03313	0.01077	19.67946	14.79773	0.2628671	0.362423	0.4370564	0.07463335
0.018038	0.04203	13.76491	17.43804	0.6923264	0.6096463	0.6775075	0.06786124
0.029648	0.01088	19.6356	15.28001	0.8312057	0.9422489	0.8690382	-0.07321072
0.03214	0.02741	15.62133	14.92949	0.8292257	0.7209515	0.8204596	0.09950814
0.005373	0.00177	27.51845	22.69788	0.1930492	0.0981472	0.1763879	0.07824072
0.005542	0.00599	22.22788	22.56346	0.5039725	0.6823436	0.5112042	-0.1711394
0.01292	0.00033	34.87566	18.88745	0.737432	0.5473002	0.622777	0.07547676
0.00584	0.01378	18.60736	22.33585	0.6774865	0.7315257	0.6662846	-0.06524108
0.004005	0.01321	18.78955	23.97368	0.7375191	0.6589073	0.5563018	-0.1026055
0.031835	0.02974	15.2672	14.97089	0.8062587	0.7521138	0.8064881	0.0543743
0.027247	0.03752	14.25754	15.64683	0.8858414	0.8176588	0.7387397	-0.07891905
0.015126	0.00388	24.11178	18.20262	0.8937435	0.8332615	0.694307	-0.1389545
0.001687	1.52E-05	48.17596	27.72855	0.2344111	0.1725553	0.2247411	0.05218574
0.021891	0.02277	16.4255	16.59727	0.0926709	0.1955588	0.2975749	0.102016
0.023568	0.01812	17.41899	16.27677	0.5514814	0.6978461	0.5654774	-0.1323686
0.008966	0.01223	19.12668	20.47395	0.0226394	0.1143342	0.0314985	-0.08283574
0.036064	0.00016	37.82743	14.42931	0.8587337	0.7554903	0.6730105	-0.0824798
0.001064	9.13E-05	40.39373	29.72861	0.797842	0.8535326	0.7724552	-0.08107746
0.029706	0.00786	21.04586	15.27149	0.7843809	0.6669732	0.7471734	0.08020024
0.021193	0.01234	19.08825	16.73798	0.7794883	0.7134829	0.7728316	0.0593487
0.005529	0.0049	23.09526	22.57347	0.6903834	0.8461831	0.7123907	-0.1337925
4.91E-06	8.28E-06	50.81944	53.08796	0.8246437	0.7534378	0.8301842	0.07674646
0.009896	0.01361	18.66286	20.04535	0.4266732	0.4957273	0.4186192	-0.07710808
0.025276	0.00355	24.49373	15.97294	0.6478586	0.5514973	0.4858089	-0.06568836
0.006081	0.00104	29.83555	22.16004	0.8096064	0.9459193	0.852138	-0.09378129
0.028355	0.00051	32.9424	15.47365	0.801047	0.6968779	0.6454936	-0.05138425
0.017019	0.00014	38.4937	17.69067	0.1497226	0.235401	0.2883044	0.05290346
0.034264	0.02809	15.51438	14.65162	0.8542795	0.9159583	0.8578048	-0.05815355
0.01372	0.00415	23.81838	18.62631	0.8898147	0.8224007	0.7500495	-0.07235131
0.015819	0.00392	24.06643	18.00816	0.8339425	0.6838319	0.5867914	-0.09704053
0.011835	0.00907	20.42468	19.26835	0.0952614	0.1804655	0.1028066	-0.07765897

0.006265	0.00854	20.68619	22.03077	0.8932064	0.8267398	0.8912237	0.06448389
0.022476	0.04757	13.22704	16.48274	0.5120722	0.6104085	0.4903831	-0.1200254
0.008695	0.00526	22.78923	20.60722	0.3285032	0.2370269	0.3078743	0.07084747
0.001218	5.85E-05	42.32582	29.14265	0.151227	0.0674098	0.1179351	0.05052536
0.00625	0.00947	20.23538	22.04093	0.5345337	0.6284015	0.5382178	-0.0901836
0.021386	0.02264	16.45158	16.69874	0.7854715	0.7115356	0.7853661	0.07383044
0.000477	0.00364	24.3949	33.21486	0.5569448	0.6854354	0.4793566	-0.2060788
0.001557	0.00027	35.75243	28.07805	0.5227079	0.6654906	0.7424511	0.07696046
0.048826	0.03253	14.87716	13.11346	0.76195	0.7029812	0.770924	0.06794272
0.048426	0.02047	16.88846	13.14921	0.8804063	0.7963011	0.8631181	0.06681701
0.006994	0.01687	17.72924	21.55248	0.8200573	0.8835155	0.807913	-0.07560246
0.008389	0.00071	31.46772	20.76273	0.176772	0.0877823	0.1428441	0.0550618
0.001917	0.00092	30.36032	27.17319	0.8691692	0.9215517	0.8547034	-0.06684833
0.004715	0.00012	39.33167	23.26512	0.9041877	0.793346	0.7104234	-0.08292269
0.001738	0.00223	26.51981	27.59958	0.3659255	0.457583	0.3471636	-0.1104195
0.009844	0.00219	26.5975	20.06832	0.8863804	0.7482111	0.6516721	-0.09653905
0.021264	0.01778	17.49947	16.72353	0.5799657	0.7151956	0.5868089	-0.1283867
0.011024	0.00349	24.56808	19.57658	0.4130056	0.3184335	0.3991869	0.0807535
0.00402	1.45E-05	48.37376	23.95727	0.41011	0.206869	0.3473506	0.1404816
0.034653	0.00053	32.76079	14.60257	0.76983	0.596489	0.5269671	-0.06952186
0.00511	0.00178	27.4844	22.91608	0.7143759	0.8027144	0.7340009	-0.06871345
0.01149	0.00642	21.92622	19.39672	0.2752305	0.1535671	0.2506263	0.09705921
0.001754	0.00771	21.12873	27.55917	0.8810119	0.8091875	0.6865309	-0.1226566
0.022898	0.01462	18.34954	16.40211	0.7488158	0.679502	0.7411646	0.06166254
0.016936	0.01523	18.17266	17.71186	0.7416371	0.8734728	0.7504628	-0.12301
0.01174	0.00048	33.22324	19.30337	0.8080034	0.3604631	0.5640428	0.2035797
0.047076	0.03552	14.49518	13.27204	0.3980706	0.2384984	0.3820012	0.1435028
0.008329	0.00685	21.64257	20.79408	0.8176941	0.7645954	0.815869	0.05127359
0.000377	4.91E-05	43.08528	34.24162	0.7181528	0.6151451	0.6932477	0.07810251
0.002926	0.00159	27.99518	25.33784	0.4690242	0.609785	0.498058	-0.1117271
4.71E-05	7.58E-06	51.2044	43.26794	0.1788257	0.1019443	0.1707347	0.06879039
0.044851	0.00168	27.74858	13.4823	0.196184	0.4917417	0.5878249	0.0960832
0.000297	0.00051	32.91023	35.26709	0.6351362	0.7867238	0.6165105	-0.1702133
0.027603	0.00715	21.45658	15.5905	0.3234518	0.1843351	0.3141955	0.1298604
0.006201	0.00505	22.9638	22.07529	0.8066408	0.7122023	0.6210359	-0.09116632
0.020441	0.01245	19.0492	16.89498	0.7804788	0.6214668	0.7691094	0.1476427
0.000479	0.00412	23.85393	33.19816	0.7314062	0.6329694	0.7321199	0.09915041
0.026022	0.02149	16.67669	15.84657	0.8510683	0.7631602	0.6755816	-0.08757862
0.001828	0.00025	35.97379	27.381	0.4826559	0.3824205	0.4616959	0.07927538
0.044063	0.01469	18.33114	13.55925	0.0820154	0.1446421	0.2274925	0.08285038
0.037273	0.03449	14.62336	14.28609	0.0683677	0.1348948	0.0699047	-0.06499004
0.010138	4.42E-08	73.54695	19.94041	0.8201886	0.6426383	0.5484371	-0.09420117
0.041386	0.02138	16.70088	13.83145	0.599995	0.3360786	0.5551794	0.2191008
0.047024	0.01394	18.55779	13.2768	0.6743355	0.839417	0.7323916	-0.1070254
0.015449	0.00033	34.80687	18.11111	0.8853131	0.709567	0.6245536	-0.08501332
0.02843	0.03929	14.05722	15.46222	0.6558387	0.7719571	0.6438708	-0.1280863
0.012446	0.00987	20.05861	19.04968	0.73966	0.8020244	0.7408614	-0.06116297
0.007091	0.00353	24.52093	21.49262	0.3554993	0.2212788	0.3117283	0.09044951
0.000683	0.00192	27.17483	31.65682	0.2340283	0.1703436	0.2457633	0.07541972
0.010297	0.00202	26.93888	19.87269	0.8081288	0.5574031	0.757437	0.2000339
0.01225	6.41E-05	41.93163	19.11879	0.4576187	0.5697575	0.6498669	0.08010935
0.006915	0.03048	15.15915	21.60239	0.80877	0.7404788	0.8315426	0.0910638
0.001271	0.00016	38.04915	28.95902	0.5133117	0.5954325	0.4772871	-0.1181453
0.002825	0.00255	25.9337	25.49028	0.1716614	0.1062243	0.164978	0.05875361

0.000288	5.51E-05	42.58702	35.40507	0.0913034	0.0251015	0.0825875	0.05748598
0.014911	0.02005	16.97841	18.2648	0.5815673	0.7137596	0.5771801	-0.1365795
0.002912	0.01808	17.42804	25.35831	0.4335111	0.2716253	0.4812427	0.2096173
0.000237	2.97E-05	45.26812	36.24373	0.1954904	0.1176263	0.1740244	0.05639808
0.003525	0.00655	21.83974	24.52814	0.7439327	0.79405	0.7312934	-0.06275649
0.02112	0.00842	20.74592	16.75315	0.141399	0.2487354	0.1697683	-0.0789671
0.038825	0.04871	13.12403	14.10888	0.801894	0.8920699	0.79649	-0.09557986
0.000795	0.00595	22.25835	30.99743	0.5006378	0.6347132	0.4448255	-0.1898877
9.97E-05	2.04E-06	56.90471	40.01413	0.2678709	0.1636503	0.2577108	0.09406046
0.008712	0.01815	17.41076	20.59883	0.7724521	0.8431497	0.7610987	-0.08205104
0.030183	0.0412	13.85147	15.20235	0.8823771	0.7814866	0.8900337	0.1085471
0.047477	0.04023	13.95442	13.23515	0.8491843	0.789263	0.8460779	0.05681494
0.004114	0.01216	19.1521	23.85784	0.9260756	0.7645544	0.5789353	-0.1856191
6.36E-06	1.47E-05	48.3173	51.96788	0.8198017	0.8724002	0.7664773	-0.1059229
0.045022	0.01699	17.69731	13.46577	0.9301252	0.8522083	0.913617	0.06140866
0.020234	0.01816	17.40987	16.93914	0.9083521	0.7512435	0.6127962	-0.1384473
0.031825	0.00091	30.43295	14.97229	0.7607839	0.603769	0.6744185	0.07064954
0.019709	0.00021	36.76826	17.05326	0.8315151	0.7642428	0.6837107	-0.08053216
0.003259	0.02417	16.16766	24.86869	0.8212479	0.7330414	0.8190718	0.08603043
0.021899	0.0164	17.85135	16.59575	0.7042874	0.7694168	0.7121869	-0.05722991
0.001907	9.42E-07	60.2609	27.1971	0.2160238	0.0938118	0.1741022	0.08029035
0.030742	0.01711	17.66776	15.12273	0.7660528	0.8641348	0.7800853	-0.08404955
0.01429	0.02644	15.77713	18.44967	0.7344671	0.8067275	0.7263703	-0.08035721
0.016511	0.00269	25.69706	17.82237	0.8375463	0.7425423	0.8048355	0.06229323
0.010233	0.01022	19.90645	19.89985	0.2337225	0.1251525	0.227652	0.1024995
0.00226	0.00038	34.21778	26.45984	0.7097241	0.7937186	0.7387052	-0.05501347
5.12E-06	1.93E-06	57.15132	52.90454	0.1025183	0.0303144	0.0920566	0.06174221
0.03525	0.02132	16.71299	14.5284	0.7700154	0.6926187	0.7598523	0.06723359
0.038205	0.0364	14.38842	14.17878	0.0954858	0.2754116	0.4393006	0.163889
0.018176	0.00388	24.11165	17.40508	0.873575	0.7946037	0.8597964	0.06519265
0.001966	0.00098	30.08969	27.06423	0.5193383	0.6838593	0.5233442	-0.1605152
0.01748	0.00456	23.40854	17.57457	0.3451666	0.1778768	0.2849321	0.1070553
0.023443	0.00691	21.60598	16.29993	0.0341343	0.1252889	0.0684455	-0.05684341
0.007286	0.02134	16.7078	21.37489	0.8201104	0.8780374	0.7996542	-0.07838323
0.000637	5.08E-05	42.94289	31.95706	0.887697	0.9495577	0.8940972	-0.05546049
0.027313	0.0249	16.03823	15.63631	0.8442065	0.6830623	0.5416634	-0.1413989
0.011317	0.0219	16.59593	19.46267	0.0766591	0.1857385	0.3433578	0.1576193
0.00551	0.01013	19.94226	22.58819	0.6132362	0.6843904	0.6037658	-0.08062458
0.047731	0.0225	16.4779	13.21199	0.7203995	0.7875214	0.7348401	-0.05268131
0.013425	0.03013	15.20982	18.72092	0.9189236	0.8559842	0.7790573	-0.07692683
0.001013	5.42E-05	42.65759	29.94293	0.1890675	0.078103	0.1531374	0.07503437
0.002236	0.00095	30.20173	26.50513	0.7923446	0.6785742	0.7779841	0.09940997
0.036995	0.03587	14.45294	14.31851	0.8785722	0.7751195	0.8731033	0.09798379
0.022874	0.01846	17.33786	16.40658	0.1809212	0.1020483	0.1727766	0.07072832
0.015089	0.046	13.37286	18.21353	0.8803836	0.9347827	0.8616766	-0.07310612
0.032352	6.68E-05	41.75349	14.90097	0.7618988	0.3881348	0.4876602	0.09952537
0.045121	4.34E-06	53.62629	13.45618	0.0883987	0.4314399	0.5299256	0.09848579
0.024518	0.0077	21.13575	16.1051	0.7231247	0.5023587	0.6050392	0.1026805
2.74E-05	0.00051	32.91051	45.61512	0.4847371	0.6218299	0.4871209	-0.134709
0.026263	0.03092	15.0973	15.80653	0.786201	0.8567654	0.7850838	-0.0716816
0.045681	0.00737	21.32805	13.40266	0.8866121	0.7004314	0.5861451	-0.1142863
0.040853	1.18E-06	59.28537	13.88774	0.1869985	0.9037776	0.8094668	-0.09431083
0.047631	0.0037	24.32229	13.22112	0.1996767	0.3221386	0.2602248	-0.06191382
0.032709	0.04284	13.68145	14.85334	0.4692256	0.5528136	0.4594964	-0.09331721

0.03944	0.00333	24.76983	14.0406	0.8412033	0.7798893	0.7074318	-0.07245757
0.007184	0.00221	26.55221	21.43612	0.4989472	0.5814776	0.5154742	-0.06600342
0.00493	0.04442	13.52411	23.07155	0.6988655	0.7690584	0.6488631	-0.1201952
0.00567	0.00159	27.99437	22.46408	0.6903893	0.5652811	0.4818392	-0.08344187
0.012807	0.02412	16.17607	18.92566	0.5625616	0.6323657	0.5480165	-0.08434922
0.040841	0.03766	14.24175	13.88901	0.6552534	0.7358282	0.6612446	-0.07458358
0.04906	0.03785	14.21986	13.09273	0.203609	0.1341362	0.1991657	0.06502952
0.010567	0.00421	23.7559	19.76055	0.4834715	0.5518563	0.4957255	-0.05613088
0.01482	0.00883	20.53799	18.29154	0.035365	0.4250811	0.7281664	0.3030853
0.024458	1.74E-06	57.59122	16.11572	0.1872998	0.6548562	0.5634941	-0.0913621
0.000111	0.00086	30.65005	39.53753	0.8252653	0.7728441	0.8269541	0.05410997
0.020412	0.0011	29.60029	16.90105	0.7279822	0.5302292	0.4335028	-0.09672636
0.040985	0.00016	37.94681	13.87379	0.6832792	0.38956	0.2971202	-0.0924399
0.002194	0.00185	27.3353	26.58798	0.8600888	0.9202331	0.8616464	-0.05858662
0.004835	0.00835	20.78105	23.1559	0.8823742	0.7449317	0.5920526	-0.152879
0.030476	0.02351	16.28757	15.16038	0.2160673	0.1342255	0.2084879	0.07426242
0.041811	0.00174	27.5866	13.7871	0.8468384	0.7488551	0.6714938	-0.07736128
0.028824	1.94E-07	67.11526	15.40242	0.0895345	0.2515308	0.3788976	0.1273668
0.006397	0.01327	18.76976	21.94003	0.8568579	0.9069039	0.8305855	-0.07631829
0.014125	0.01566	18.05203	18.50022	0.0965031	0.1681263	0.1007725	-0.06735381
0.02597	0.01242	19.05803	15.85526	0.7594346	0.9011261	0.7769312	-0.1241949
0.03913	0.023	16.3828	14.07495	0.8724502	0.7596495	0.6691589	-0.09049059
0.01115	8.52E-05	40.69562	19.52731	0.8231891	0.7275306	0.6466924	-0.08083826
0.000925	0.00232	26.34645	30.33895	0.3191621	0.1377184	0.2960734	0.158355
0.002927	0.00201	26.96136	25.33577	0.8468119	0.6924369	0.8244754	0.1320385
0.020815	0.0094	20.2683	16.81629	0.8314739	0.7412103	0.8056047	0.06439435
0.016392	0.04874	13.12085	17.85381	0.8845055	0.935528	0.8600079	-0.07552008
0.039014	0.00736	21.33224	14.08776	0.7989001	0.6739375	0.7569344	0.08299696
0.012275	0.02044	16.89609	19.10979	0.3712785	0.2734023	0.4010354	0.1276331
0.006562	0.00096	30.17004	21.82977	0.4319575	0.3038179	0.3944266	0.09060872
0.004733	0.00266	25.74665	23.24907	0.0720635	0.3004556	0.4384952	0.1380396
0.009344	0.00965	20.15596	20.29478	0.2336435	0.1713562	0.2350533	0.06369708
0.023446	0.00613	22.12338	16.29931	0.1932146	0.3967037	0.2512786	-0.1454251
0.025131	0.00017	37.67355	15.99784	0.7413977	0.4460821	0.3277679	-0.1183141
0.040559	0.03201	14.9469	13.91911	0.2916915	0.1745393	0.1192742	-0.05526503
0.029428	0.03365	14.73027	15.31239	0.8440427	0.8986214	0.8393136	-0.05930775
0.016922	0.01123	19.49739	17.71561	0.3760599	0.2674786	0.369827	0.1023485
0.000142	0.00068	31.68742	38.48518	0.558455	0.7022155	0.5770085	-0.1252069
0.008103	0.01469	18.33016	20.91356	0.5278023	0.5825364	0.5201575	-0.06237888
0.032882	0.03681	14.34092	14.83046	0.0918326	0.1958486	0.3460725	0.1502239
0.029693	0.02406	16.18641	15.27345	0.0771985	0.1475608	0.279494	0.1319333
0.00223	0.0351	14.54663	26.51615	0.8770604	0.8237128	0.7248561	-0.09885673
0.001944	0.02068	16.84484	27.1131	0.8388195	0.9018179	0.8052611	-0.09655681
0.011715	0.00609	22.15518	19.31263	0.6734095	0.7862913	0.6954479	-0.09084337
1.97E-05	2.42E-05	46.15292	47.05426	0.2136529	0.1033581	0.1872484	0.08389029
0.009226	0.00695	21.58101	20.34995	0.8305082	0.8929983	0.8362889	-0.05670939
0.036859	0.01901	17.21044	14.33452	0.1064141	0.241173	0.1347275	-0.1064454
9.26E-05	3.22E-05	44.91516	40.33336	0.6602613	0.7771268	0.6636554	-0.1134714
0.008973	0.01167	19.32954	20.47081	0.1016769	0.1707598	0.2702739	0.09951419
0.017723	0.00798	20.97753	17.51457	0.7490028	0.6430374	0.7289287	0.08589132
0.042514	0.00083	30.79979	13.71471	0.8013379	0.8574402	0.7812142	-0.07622597
0.042343	0.02603	15.84568	13.73221	0.8967737	0.7812101	0.8788771	0.09766699
0.016485	0.0228	16.42051	17.8291	0.1735746	0.2804911	0.417799	0.1373079
0.001239	0.00859	20.66006	29.0707	0.7132292	0.8193065	0.6936504	-0.1256561



0.007864	0.01828	17.37959	21.04353	0.6904815	0.7522045	0.681513	-0.07069147
0.006315	0.00215	26.67764	21.99631	0.8498926	0.9151409	0.8629929	-0.05214793
0.000632	0.0007	31.55301	31.99359	0.6281625	0.793908	0.6363735	-0.1575346
0.024733	0.01522	18.17454	16.06726	0.7904065	0.8854697	0.8009069	-0.08456281
0.031319	0.03179	14.97732	15.04192	0.7627973	0.45865	0.755092	0.2964419
0.043938	0.00475	23.22983	13.57163	0.8442962	0.7442216	0.675288	-0.06893356
0.008021	0.02647	15.77193	20.95777	0.8203647	0.7281067	0.6085505	-0.1195562
0.002497	2.44E-07	66.12696	26.02496	0.1099627	0.6538697	0.7291986	0.07532894
0.039951	0.0102	19.91516	13.98472	0.5551353	0.6512986	0.5856622	-0.06563634
0.000493	8.69E-05	40.60794	33.07491	0.1278833	0.0604211	0.1187366	0.05831549
0.001164	0.00091	30.3872	29.34154	0.8451458	0.6769552	0.5519748	-0.1249804
0.001596	0.00094	30.28479	27.96891	0.687273	0.7764011	0.6895227	-0.08687835
0.016844	0.00784	21.05558	17.73553	0.7193035	0.7898055	0.6985554	-0.09125011
0.040575	0.00931	20.31268	13.91745	0.7762356	0.8844666	0.8118286	-0.072638
0.00143	0.0002	37.06195	28.44755	0.2912178	0.1818355	0.2723891	0.09055365
0.005115	0.03626	14.40626	22.9118	0.8072922	0.8655699	0.7763364	-0.08923352
0.021858	0.03622	14.41108	16.60388	0.6368032	0.6959464	0.6299719	-0.06597452
0.000443	0.00046	33.41344	33.53365	0.5097793	0.6036843	0.5073118	-0.09637253
0.001115	0.00147	28.326	29.52648	0.6958263	0.8196452	0.6994174	-0.1202278
0.042813	0.00773	21.11775	13.68429	0.6806934	0.7664289	0.8214843	0.05505538
0.005376	0.00023	36.45089	22.69534	0.8014653	0.6130986	0.7107312	0.09763262
0.000655	0.00166	27.79184	31.83947	0.8437523	0.7296368	0.8260546	0.09641785
0.005986	0.00352	24.5312	22.22894	0.6301274	0.7650898	0.6511185	-0.1139713
0.047723	0.02924	15.33988	13.21273	0.8212562	0.7341138	0.8096207	0.075507
0.0074	0.00217	26.63489	21.3078	0.8087767	0.5562083	0.4030671	-0.1531413
0.022033	1.55E-05	48.10073	16.56919	0.1260817	0.6816299	0.533161	-0.1484689
0.010504	0.00574	22.40853	19.78641	0.8224098	0.7399098	0.8103246	0.07041477
0.000645	0.00229	26.40712	31.90334	0.184792	0.1041275	0.1834065	0.07927898
0.013707	0.00026	35.77485	18.63066	0.6402316	0.5105211	0.5731825	0.06266144
0.042448	0.00617	22.09669	13.72139	0.8093336	0.6879364	0.6047913	-0.08314507
0.01761	0.04307	13.65797	17.54252	0.6620932	0.7339603	0.6341125	-0.09984786
0.01949	0.00037	34.31026	17.10182	0.0765779	0.3023873	0.2044739	-0.09791346
0.026958	0.00021	36.87158	15.69309	0.1793242	0.2913849	0.3536655	0.06228058
0.015543	7.40E-05	41.31044	18.08452	0.6203381	0.4541266	0.5348346	0.08070802
0.01173	0.03959	14.02423	19.30708	0.7757207	0.7166026	0.7832456	0.06664301
0.032223	0.04505	13.4635	14.91839	0.8103501	0.865182	0.7953322	-0.06984983
0.01339	0.02663	15.74554	18.73209	0.6231673	0.7107855	0.6036607	-0.1071248
0.026621	0.02156	16.66318	15.74772	0.8366179	0.6841059	0.814931	0.130825
0.046806	7.85E-07	61.05047	13.29702	0.8006513	0.5403113	0.4791032	-0.06120805
0.02636	0.00583	22.34284	15.7905	0.8753275	0.7436972	0.6557786	-0.0879186
0.010101	0.00106	29.73529	19.95638	0.6813998	0.5492689	0.6365699	0.08730099
0.001081	0.03572	14.47029	29.66362	0.6307482	0.6890666	0.5999931	-0.08907359
0.000122	0.00011	39.52507	39.13125	0.1840995	0.0947063	0.1715847	0.07687838
0.010403	0.00193	27.13843	19.82844	0.8854873	0.78667	0.8596033	0.07293335
0.016315	0.03061	15.14108	17.87407	0.8175365	0.8870428	0.8125284	-0.07451443
0.015581	0.03848	14.14803	18.07398	0.8991442	0.8480198	0.9134313	0.06541155
0.024189	0.02654	15.76136	16.16382	0.5259565	0.7321322	0.5217963	-0.2103358
0.000354	0.00021	36.85194	34.51049	0.869555	0.7695196	0.8654589	0.09593933
0.038784	0.04481	13.48605	14.11346	0.84571	0.7335551	0.8482397	0.1146846
0.008984	0.00408	23.8975	20.46511	0.130161	0.065846	0.1175027	0.05165665
0.040312	0.04762	13.22237	13.94568	0.6691771	0.7844198	0.6620936	-0.1223262
0.010454	0.00301	25.21038	19.80701	0.9128839	0.8250551	0.7569755	-0.06807961
0.000496	0.00072	31.39666	33.04673	0.5367143	0.485088	0.5381595	0.05307162
0.00759	0.00616	22.10256	21.19774	0.8048958	0.8962687	0.8278169	-0.06845179

0.036246	0.03095	15.09361	14.40741	0.3420799	0.2502427	0.3406365	0.09039382
0.009936	0.00463	23.34203	20.02802	0.8259985	0.613858	0.4286171	-0.1852409
0.018256	0.00473	23.2534	17.38588	0.727177	0.6309384	0.548103	-0.08283546
0.032573	0.00578	22.38007	14.87138	0.3757965	0.2734032	0.331486	0.05808282
0.032596	0.01333	18.75085	14.86839	0.8811191	0.6168063	0.44062	-0.1761863
0.006332	0.00335	24.75507	21.98445	0.8033401	0.6926169	0.801011	0.1083941
0.000274	2.60E-06	55.84383	35.62965	0.1146143	0.0486144	0.1132568	0.06464235
0.042985	0.01186	19.25828	13.66686	0.8593184	0.6951749	0.8044068	0.1092319
0.010287	0.00757	21.21084	19.87692	0.301348	0.1343656	0.2826055	0.1482399
0.005251	0.00345	24.61662	22.79756	0.5535607	0.7795328	0.5992582	-0.1802746
0.000544	0.00289	25.39767	32.64743	0.653856	0.7598171	0.6141588	-0.1456583
0.011877	0.01621	17.90281	19.25277	0.4638276	0.6666979	0.4367692	-0.2299287
0.009728	0.00028	35.57843	20.11984	0.3252207	0.6852077	0.5232726	-0.1619351
0.041876	0.02309	16.36625	13.78038	0.1683277	0.2839026	0.3880783	0.1041757
0.000123	0.00032	34.90028	39.10552	0.5144804	0.6388806	0.503217	-0.1356635
0.000262	0.00051	32.94663	35.81363	0.670818	0.8701546	0.6689782	-0.2011764
0.031967	0.01143	19.42039	14.95298	0.4828457	0.5493525	0.4990914	-0.05026117
0.030347	2.15E-05	46.68167	15.17877	0.8690881	0.752636	0.6638938	-0.08874224
0.024272	0.02205	16.56679	16.14898	0.3553611	0.2271222	0.3492098	0.1220876
0.000119	4.33E-05	43.63291	39.25457	0.7930101	0.9193795	0.8177984	-0.1015811
5.55E-05	9.55E-05	40.1977	42.55393	0.7752177	0.9367262	0.8013201	-0.135406
0.038823	0.0337	14.72391	14.10915	0.8817002	0.7647583	0.877674	0.1129156
0.025583	5.95E-06	52.25632	15.92042	0.4715952	0.7371013	0.791768	0.0546667
0.021031	0.0389	14.10081	16.77144	0.0577025	0.1486728	0.2849504	0.1362776
0.017465	0.00336	24.7324	17.57831	0.8384314	0.7486343	0.6804091	-0.0682252
0.041954	0.02553	15.92992	13.77223	0.9199944	0.7805301	0.6277104	-0.1528197
0.0142	0.00734	21.34312	18.47716	0.8565661	0.7884943	0.848259	0.05976468
0.047389	0.04332	13.63335	13.24323	0.8841664	0.8022621	0.6950943	-0.1071678
0.000873	2.76E-05	45.58323	30.59033	0.2116253	0.0768527	0.2142443	0.1373916
0.001877	0.0033	24.80951	27.26583	0.7201002	0.8064542	0.6999738	-0.1064804
0.007186	0.00434	23.62471	21.43537	0.815906	0.7640425	0.6333125	-0.1307299
0.03551	0.00951	20.21847	14.49646	0.8555024	0.7602674	0.8261017	0.06583437
0.034934	0.02959	15.28828	14.5675	0.8769783	0.7194961	0.5758195	-0.1436766
3.14E-05	8.67E-07	60.61905	45.03516	0.6416404	0.7705825	0.6474964	-0.1230861
0.000854	0.00186	27.31286	30.68598	0.7675318	0.8709331	0.7529073	-0.1180258
0.000195	3.60E-05	44.44173	37.09487	0.2565266	0.1533228	0.2309767	0.0776539
0.008514	0.00271	25.6736	20.69841	0.5958476	0.8099152	0.6468165	-0.1630988
0.002907	0.00331	24.80769	25.36586	0.7829048	0.8926713	0.7966124	-0.09605886
0.031234	0.01113	19.5366	15.05374	0.8646151	0.748915	0.8359973	0.08708236
0.002697	0.00431	23.65443	25.69145	0.3493751	0.2423133	0.3634526	0.1211393
0.00066	0.00106	29.74088	31.80776	0.4210353	0.538254	0.4249117	-0.1133423
0.000227	0.00192	27.15841	36.43971	0.1428812	0.0837493	0.1794634	0.09571414
0.021351	0.00043	33.6198	16.70591	0.2277161	0.4076615	0.4950884	0.08742689
3.11E-05	0.00018	37.53786	45.07269	0.7165198	0.8181736	0.6244346	-0.193739
0.001813	0.0006	32.20491	27.41679	0.1678826	0.0624825	0.1282571	0.06577466
0.046506	0.00596	22.24406	13.32488	0.8812683	0.7721968	0.6792962	-0.09290069
0.002621	0.02821	15.49571	25.81502	0.8133546	0.8712806	0.7721207	-0.09915991
7.86E-05	8.34E-05	40.78597	41.04744	0.2393044	0.1480663	0.2256482	0.07758195
0.030674	0.01734	17.6086	15.13234	0.9238756	0.8252413	0.7424251	-0.08281614
0.00053	0.00089	30.50689	32.75717	0.632201	0.7185786	0.6265641	-0.09201452
0.028362	0.00524	22.80659	15.47265	0.7962121	0.7265614	0.6655868	-0.06097462
0.009402	0.00971	20.12709	20.26798	0.2153514	0.1376005	0.206955	0.06935446
0.01999	0.02634	15.79327	16.99193	0.8490006	0.9098753	0.8373022	-0.07257307
0.012221	0.01727	17.6261	19.12877	0.0374392	0.0952574	0.0347854	-0.06047205

0.00686	0.01159	19.35955	21.63683	0.5196087	0.661404	0.4950641	-0.1663398
0.022273	0.02207	16.56166	16.52224	0.5637581	0.7121696	0.5622137	-0.1499559
0.025801	0.00038	34.22902	15.88358	0.9130406	0.7952156	0.7099682	-0.0852474
0.046018	0.04792	13.1952	13.37074	0.78777	0.8395737	0.7866377	-0.05293601
0.030473	0.01391	18.56556	15.16091	0.7993954	0.6653777	0.7759755	0.1105978
0.000908	0.00039	34.03858	30.42036	0.0904889	0.0375783	0.0908536	0.05327531
0.025827	0.02452	16.10551	15.8793	0.6184632	0.5075393	0.6172589	0.1097196
0.021407	0.00194	27.12914	16.69441	0.0790036	0.4220726	0.5588325	0.1367599
0.023794	0.01747	17.57791	16.23528	0.7316856	0.8009891	0.7335708	-0.06741826
0.028733	0.00109	29.63283	15.41612	0.8091023	0.6207788	0.7052916	0.08451282
0.04317	0.00476	23.22162	13.64821	0.1756358	0.1104285	0.1626249	0.05219641
0.013152	0.0105	19.78799	18.81005	0.8504368	0.6491674	0.4828555	-0.1663119
0.036761	0.00541	22.67192	14.34612	0.0887172	0.1948259	0.2902038	0.09537791
0.004097	6.03E-06	52.19803	23.87488	0.1551409	0.0656353	0.1567336	0.09109834
0.001538	0.00454	23.43124	28.13066	0.3964861	0.5192745	0.3903404	-0.1289341
0.010555	0.02904	15.37074	19.76551	0.9457333	0.8758996	0.7712356	-0.1046639
0.007558	0.04406	13.55986	21.21594	0.8351787	0.8915959	0.7837631	-0.1078328
0.023643	0.02509	16.00538	16.26303	0.3955305	0.2537936	0.3948975	0.1411038
0.019631	0.01621	17.90137	17.07063	0.395568	0.5076342	0.4103292	-0.09730499
0.007056	0.02573	15.89508	21.51424	0.8494644	0.9155692	0.8334013	-0.08216785
0.046551	0.00073	31.36055	13.32074	0.3871595	0.1812833	0.2615194	0.08023604
0.036075	0.00663	21.7858	14.42791	0.312983	0.2171645	0.2806757	0.0635112
0.003207	0.00173	27.61608	24.9388	0.7048928	0.8000139	0.7223563	-0.07765757
0.002858	0.00212	26.73044	25.43998	0.8497643	0.9466119	0.8552995	-0.09131239
0.000618	0.0007	31.57845	32.08828	0.8178487	0.9162375	0.8235067	-0.0927309
0.015999	0.0123	19.09925	17.95903	0.2454584	0.1820789	0.2437577	0.06167884
0.02571	0.0327	14.85505	15.89891	0.8962989	0.827343	0.7472423	-0.08010076
0.039319	0.00744	21.28348	14.05393	0.1366078	0.3124605	0.2148115	-0.0976489
0.002977	0.0033	24.81366	25.26292	0.4020829	0.1727328	0.3658666	0.1931339
0.000908	0.00128	28.93726	30.41829	0.1633916	0.0704284	0.1451201	0.07469175
0.000146	0.00015	38.36227	38.34859	0.1382931	0.0525702	0.1213738	0.06880368
0.018811	0.03367	14.72792	17.25586	0.9000458	0.7996547	0.6681373	-0.1315173
0.031216	0.00295	25.30378	15.05616	0.7119579	0.5702705	0.6520351	0.08176459
0.00099	0.01223	19.12657	30.04173	0.9199704	0.8111538	0.6607026	-0.1504512
0.031707	0.00748	21.26001	14.98843	0.8651489	0.6167049	0.7676019	0.150897
0.036687	0.03746	14.26376	14.35485	0.1230512	0.0707504	0.1234259	0.05267549
0.001796	0.00018	37.37212	27.45727	0.72014	0.8496903	0.7453592	-0.1043311
0.000347	0.00135	28.69741	34.59457	0.5993145	0.6660306	0.5991865	-0.06684415
0.011583	0.00088	30.5587	19.36184	0.0893995	0.5115942	0.6883332	0.1767391
0.031522	0.03123	15.05467	15.01384	0.6858615	0.7831668	0.6881568	-0.09501003
0.000695	0.00101	29.93845	31.57743	0.5023096	0.6428854	0.4981152	-0.1447703
0.011284	0.00136	28.65446	19.47522	0.828193	0.6503502	0.7367428	0.08639263
0.003192	0.00703	21.52876	24.95929	0.5525354	0.6207952	0.5399848	-0.08081046
0.000902	0.00229	26.39408	30.44619	0.5134674	0.6054923	0.4957881	-0.1097042
0.032012	0.00188	27.25172	14.94683	0.091653	0.4615051	0.5848574	0.1233523
0.039301	9.22E-05	40.35476	14.05597	0.0981798	0.5285774	0.412863	-0.1157144
0.007524	0.02332	16.32222	21.23532	0.8824071	0.8039442	0.6976972	-0.106247
0.004726	0.00399	23.99045	23.25509	0.8915165	0.945689	0.8941597	-0.05152935
0.000431	0.00042	33.73166	33.65593	0.2881158	0.1729993	0.2848887	0.1118895
0.006702	0.00166	27.79043	21.73792	0.7978145	0.6836199	0.595679	-0.08794096
0.042847	0.04739	13.24311	13.68075	0.6286341	0.7357835	0.6241279	-0.1116556
0.000825	6.01E-07	62.21053	30.83533	0.7285951	0.8083321	0.7511823	-0.05714986
0.009387	0.00279	25.54562	20.27485	0.1447834	0.0553503	0.1265043	0.07115398
0.012646	0.00064	31.94321	18.98062	0.2122907	0.3669424	0.4465071	0.07956469

0.008772	5.24E-06	52.80672	20.56908	0.5983129	0.4213937	0.4793071	0.05791341
0.000212	0.00502	22.98929	36.74062	0.3030977	0.2073563	0.3569631	0.1496069
0.000203	0.00024	36.26747	36.92738	0.1214311	0.051011	0.1211001	0.07008912
0.038988	0.03697	14.32139	14.09075	0.8934597	0.8184305	0.710738	-0.1076925
0.000493	0.00157	28.04524	33.07166	0.7100285	0.8793112	0.7218808	-0.1574304
0.030334	0.00506	22.9564	15.18075	0.132202	0.3587715	0.4839835	0.125212
0.005469	0.0322	14.92209	22.62078	0.7988965	0.8811976	0.75427	-0.1269276
5.16E-06	3.06E-06	55.14724	52.87234	0.5393655	0.6498591	0.5335338	-0.1163253
0.00611	0.0013	28.84649	22.13926	0.574386	0.6598512	0.5886871	-0.07116412
0.018698	0.019	17.21177	17.282	0.831267	0.6895389	0.5647822	-0.1247567
0.03495	0.00685	21.6454	14.56557	0.8581653	0.7275141	0.6574861	-0.07002801
0.005442	0.00613	22.12623	22.64249	0.667751	0.7970579	0.6813553	-0.1157026
0.047913	0.00104	29.8418	13.19545	0.8623601	0.7544496	0.6990443	-0.05540525
0.041287	0.00948	20.23241	13.84189	0.8688653	0.7898147	0.8414328	0.05161801
0.000557	1.28E-05	48.91589	32.54531	0.8731165	0.7253094	0.8084863	0.08317692
0.006627	0.00331	24.80288	21.78713	0.8290598	0.9121498	0.8363099	-0.07583994
0.028587	0.01943	17.11581	15.4383	0.8244132	0.7068109	0.8170937	0.1102828
0.001339	0.00028	35.4978	28.73346	0.143424	0.0672969	0.1335227	0.0662258
0.025673	0.02233	16.51058	15.9053	0.2565683	0.152713	0.2478455	0.09513257
0.025854	0.01643	17.8449	15.8747	0.5327433	0.6338333	0.5438451	-0.08998828
0.038885	0.00708	21.49803	14.10221	0.8527784	0.7598734	0.8118643	0.05199079
0.039684	0.00023	36.31171	14.01381	0.7699594	0.645751	0.7015138	0.05576281
0.025571	1.87E-06	57.28422	15.92256	0.447913	0.3730604	0.4379437	0.06488328
0.002133	0.00052	32.88124	26.71007	0.1932205	0.1101731	0.1700544	0.0598813
0.029483	0.01068	19.71366	15.30424	0.2242275	0.1466172	0.2023634	0.0557461
0.02721	0.03135	15.03826	15.65276	0.1432216	0.0773438	0.1449143	0.0675705
0.023313	0.01514	18.19872	16.32406	0.703104	0.5244374	0.6845809	0.1601436
0.000417	0.00097	30.14174	33.79678	0.8073369	0.6635904	0.5060368	-0.1575536
0.014902	0.02465	16.08232	18.26742	0.6791295	0.7455173	0.6706997	-0.07481752
0.011228	0.01301	18.8566	19.4971	0.3647884	0.261664	0.3630934	0.1014294
0.027896	0.0069	21.61405	15.54454	0.7943338	0.6787753	0.7535416	0.07476637
0.022613	2.63E-07	65.80853	16.45651	0.8351732	0.6046153	0.5376541	-0.06696115
0.049347	0.03397	14.6896	13.0674	0.9130121	0.8465558	0.7647572	-0.08179864
0.032864	0.02038	16.9084	14.8328	0.3458902	0.2733454	0.3315805	0.05823508
0.020261	0.00226	26.45882	16.93336	0.3321853	0.2173148	0.3000498	0.08273501
0.00063	6.05E-05	42.18059	32.00903	0.7246091	0.5081478	0.6076863	0.09953846
0.030329	0.0088	20.55676	15.18142	0.8415897	0.778528	0.716007	-0.06252099
0.004592	0.00199	27.0044	23.37977	0.7971756	0.68557	0.741221	0.05565096
0.047316	0.0024	26.19609	13.24996	0.6947204	0.5948963	0.6496703	0.054774
0.036364	0.02912	15.35856	14.39331	0.7986249	0.717311	0.7920696	0.07475866
0.00083	0.00202	26.94909	30.81101	0.783174	0.8484265	0.7685734	-0.07985305
0.001028	0.00175	27.57108	29.88034	0.8619563	0.7021741	0.8551168	0.1529427
0.033751	0.00096	30.15544	14.71715	0.5797251	0.4304414	0.5064145	0.07597306
0.00017	2.76E-05	45.59657	37.69449	0.1679152	0.0857376	0.1515416	0.065804
0.010935	0.00195	27.09398	19.61198	0.9270797	0.7157027	0.6146078	-0.1010949
0.016955	0.04199	13.76828	17.70709	0.4176564	0.5054311	0.3865181	-0.118913
0.000149	0.00019	37.26431	38.27212	0.1527141	0.0921665	0.1527595	0.06059295
0.000971	0.00135	28.70918	30.12912	0.1800779	0.1154907	0.1697639	0.05427326
0.002275	0.00346	24.60716	26.43081	0.5942667	0.710367	0.5938643	-0.1165027
0.028332	0.00167	27.7739	15.47728	0.7855732	0.6511019	0.7258686	0.07476674
0.043897	0.02644	15.77685	13.57569	0.925433	0.8500694	0.9108118	0.06074245
0.010631	0.00478	23.20423	19.73439	0.6069501	0.7885132	0.6537572	-0.134756
0.003488	3.26E-05	44.87055	24.57388	0.1829737	0.1118463	0.1679438	0.05609756
0.047231	0.01101	19.58054	13.2577	0.201746	0.3063869	0.3935387	0.08715187

0.012126	0.0011	29.576	19.16278	0.8996006	0.8111028	0.7346472	-0.0764556
3.36E-05	1.93E-05	47.15545	44.73199	0.9040806	0.8040149	0.8972775	0.09326259
0.001917	0.00095	30.21048	27.17372	0.8171229	0.709285	0.812125	0.10284
0.01443	0.01214	19.15878	18.40729	0.9031276	0.8152992	0.8991821	0.08388302
0.015538	0.02262	16.45427	18.08616	0.1538663	0.2165118	0.2797183	0.06320655
0.012492	0.0026	25.84542	19.03378	0.8440982	0.7441092	0.8132827	0.06917349
0.015662	0.00016	37.87721	18.05162	0.1179345	0.2781439	0.3772472	0.0991034
0.047679	0.00903	20.44214	13.21674	0.820972	0.7132735	0.7790929	0.0658194
0.004168	0.00864	20.63491	23.80102	0.8440645	0.7547333	0.6412441	-0.1134892
0.028721	0.03257	14.87167	15.418	0.7332312	0.8084076	0.7357311	-0.07267651
0.004283	0.00802	20.95798	23.68262	0.4804114	0.4067702	0.4848034	0.07803328
0.019011	0.01561	18.06646	17.21002	0.844925	0.7916778	0.8441674	0.05248965
0.003153	0.00088	30.55574	25.01302	0.7230875	0.8726348	0.7916157	-0.08101909
0.004176	2.69E-05	45.69489	23.79272	0.1682099	0.4011227	0.252439	-0.1486837
0.042032	0.00069	31.61315	13.7642	0.8652315	0.7504565	0.8017357	0.05127919
0.033758	9.74E-05	40.11367	14.71624	0.8505275	0.6499236	0.7327508	0.0828271
5.57E-05	0.00025	35.94942	42.53991	0.6461721	0.742713	0.660231	-0.08248198
0.030136	0.00738	21.32214	15.20913	0.8903498	0.7917547	0.8601364	0.06838177
0.008496	0.00345	24.62053	20.70805	0.057129	0.2199573	0.3358885	0.1159312
9.30E-05	2.06E-06	56.85385	40.31602	0.1593501	0.0798508	0.1488253	0.06897449
0.019291	0.00317	24.98601	17.14638	0.830282	0.7097514	0.7847266	0.0749752
0.014194	0.01071	19.70119	18.47889	0.7850919	0.682835	0.7709655	0.08813044
0.005016	0.01031	19.86872	22.99677	0.6577715	0.7480211	0.6341	-0.1139211
0.003684	6.84E-05	41.65185	24.33623	0.7850822	0.608528	0.7128531	0.1043251
0.013141	0.01872	17.27698	18.81385	0.8314	0.7652072	0.6517575	-0.1134497
0.021182	0.0257	15.90019	16.74028	0.7496295	0.8628852	0.7435504	-0.1193348
0.042425	0.02493	16.03221	13.72377	0.0244896	0.1004932	0.039158	-0.06133519
0.047434	1.17E-05	49.30475	13.23911	0.867449	0.7316244	0.7846652	0.05304075
0.029477	0.03354	14.74493	15.30511	0.6909459	0.7769653	0.692868	-0.08409734
0.013514	0.02634	15.7943	18.6922	0.8959078	0.7519899	0.5967132	-0.1552767
0.04893	0.00012	39.31511	13.10427	0.8793995	0.559925	0.6804367	0.1205117
0.010645	0.02848	15.45387	19.7285	0.8762782	0.770139	0.6451431	-0.1249959
2.01E-05	4.74E-06	53.2435	46.95834	0.2320365	0.0860393	0.2090683	0.123029
6.12E-05	0.00267	25.73548	42.13191	0.5436492	0.6627194	0.4813357	-0.1813837
0.017012	0.00841	20.75292	17.69255	0.8073909	0.8763344	0.8190318	-0.05730266
0.012766	0.01791	17.4692	18.93957	0.795579	0.8518373	0.7911273	-0.06070998
0.04487	0.00033	34.82825	13.48045	0.0866645	0.5449529	0.6326811	0.08772815
0.030473	0.00982	20.07733	15.16081	0.7881982	0.6446593	0.7399232	0.09526385
0.037537	0.03176	14.98141	14.25542	0.8748736	0.731136	0.6003866	-0.1307494
0.019539	0.00048	33.21391	17.09108	0.755114	0.5880033	0.6679884	0.07998509
0.022192	2.42E-05	46.1615	16.53802	0.826775	0.5949825	0.6743513	0.07936875
0.012517	0.01907	17.19741	19.02495	0.7182461	0.7934471	0.70149	-0.09195714
0.019444	0.03621	14.41129	17.11204	0.9587567	0.8254402	0.6796722	-0.1457679
0.001504	0.00456	23.41217	28.22777	0.7582604	0.856151	0.7435127	-0.1126383
0.029588	0.03406	14.67706	15.28878	0.830665	0.7635211	0.8349949	0.07147373
0.00547	0.00377	24.23588	22.62004	0.1749983	0.0812715	0.1527764	0.07150494
0.004052	0.0025	26.01334	23.92337	0.8017072	0.9059117	0.8094093	-0.09650241
0.031225	0.00026	35.84623	15.05491	0.8659402	0.7256317	0.6660856	-0.05954602
0.001055	5.58E-05	42.5352	29.76925	0.8029867	0.6700809	0.7599326	0.08985174
0.036868	0.0396	14.02341	14.3335	0.4418907	0.502673	0.4395715	-0.06310149
0.001732	0.0005	32.97784	27.61544	0.4213655	0.5216411	0.43669	-0.08495117
0.007163	0.00143	28.46056	21.44925	0.8862451	0.6765925	0.4786538	-0.1979387
0.043006	0.02526	15.97595	13.66467	0.7895407	0.6948693	0.6183544	-0.07651496
8.28E-05	3.08E-05	45.11127	40.82161	0.7985821	0.8960707	0.8132681	-0.0828025

0.021551	0.00115	29.40555	16.66533	0.7727613	0.6266905	0.5344453	-0.09224513
0.022501	0.00349	24.57587	16.47806	0.8421958	0.665358	0.5568178	-0.1085402
0.006808	0.00665	21.77491	21.67002	0.8116726	0.7453447	0.8083839	0.0630392
0.009578	0.00137	28.63802	20.18705	0.3078435	0.2337407	0.3012683	0.06752761
0.042177	0.03973	14.00868	13.74928	0.7127044	0.8024961	0.7081792	-0.09431683
0.020899	0.01905	17.2014	16.79884	0.268867	0.2180955	0.2689903	0.0508948
0.027793	0.01563	18.05919	15.56058	0.8188507	0.7596219	0.8120105	0.05238862
0.001846	0.00368	24.34528	27.33719	0.831359	0.900374	0.808387	-0.091987
0.033165	0.0048	23.18633	14.79323	0.7796238	0.8598897	0.805212	-0.0546778
0.016824	0.004	23.97865	17.74068	0.0387519	0.1652213	0.245373	0.08015169
0.012408	0.02126	16.72349	19.06301	0.6667016	0.7435941	0.6406321	-0.102962
0.043355	0.00443	23.53558	13.62963	0.2986592	0.5301232	0.6370867	0.1069635
0.004816	0.00259	25.86343	23.17335	0.8730456	0.8075024	0.8668192	0.05931675
0.014281	0.00451	23.45378	18.45251	0.8412794	0.895591	0.8416871	-0.05390387
0.004768	0.01471	18.32365	23.21644	0.0893497	0.1705921	0.0718415	-0.09875061
0.047186	1.22E-07	69.14385	13.26187	0.1286373	0.7399702	0.8039874	0.06401716
0.027929	0.02237	16.50408	15.53952	0.3379775	0.2551059	0.1840303	-0.07107563
0.005783	0.00667	21.75826	22.37869	0.7990335	0.8959825	0.8075875	-0.08839499
0.043674	0.0332	14.78862	13.59782	0.8115758	0.6334112	0.4717857	-0.1616256
0.003761	0.00126	28.98487	24.24717	0.8088472	0.7402936	0.792716	0.05242242
0.020342	0.02567	15.90565	16.91615	0.7760094	0.6954311	0.7862579	0.09082676
0.042819	0.00882	20.54343	13.68363	0.5648416	0.7298002	0.6196147	-0.1101855
0.006502	0.03867	14.12666	21.86983	0.7544194	0.606261	0.7679753	0.1617142
0.031791	0.00209	26.80502	14.9769	0.3207358	0.4964266	0.5804234	0.08399677
0.002459	0.00453	23.44033	26.09156	0.8192934	0.8987472	0.8091072	-0.08963998
0.010674	0.01693	17.71301	19.71685	0.8051566	0.7526263	0.6940471	-0.05857918
0.019141	0.00211	26.76416	17.18026	0.8319543	0.6523662	0.7459804	0.09361424
0.041621	0.04641	13.33407	13.80686	0.3412492	0.2893106	0.3445783	0.05526766
0.00084	0.00075	31.22394	30.75473	0.7726386	0.6435465	0.5277953	-0.1157512
0.023796	0.0079	21.02423	16.23502	0.1716936	0.3022149	0.2026721	-0.09954283
0.007006	0.00173	27.61376	21.54509	0.2357471	0.1139648	0.1982823	0.08431751
0.022232	0.0072	21.42619	16.53023	0.9086737	0.7380394	0.6277196	-0.1103199
0.02975	0.00045	33.4689	15.26509	0.2399949	0.4996143	0.6113048	0.1116904
0.000533	0.00171	27.66304	32.7342	0.5442442	0.6690534	0.5217631	-0.1472903
0.033878	0.02013	16.96212	14.70085	0.0356893	0.1389934	0.2203695	0.08137607
0.024751	0.0423	13.73636	16.06401	0.6288596	0.728829	0.6139603	-0.1148688
0.000408	0.00035	34.6088	33.89148	0.3579778	0.2270957	0.3777495	0.1506538
0.016542	0.00147	28.31504	17.814	0.7510849	0.557558	0.6587757	0.1012177
0.02529	0.00499	23.01833	15.97055	0.8408359	0.7183765	0.7871742	0.06879777
0.005797	0.00517	22.86856	22.36819	0.8988962	0.8380744	0.8960016	0.05792726
0.007818	0.03607	14.42913	21.0692	0.6735994	0.7257623	0.6488853	-0.07687706
0.033833	0.00363	24.39864	14.70654	0.0921203	0.2450429	0.3531695	0.1081266
0.011965	0.02344	16.30011	19.22096	0.8708699	0.7270123	0.8878897	0.1608774
0.006049	0.02837	15.47097	22.18328	0.9123824	0.8571699	0.7718168	-0.08535306
0.012767	0.00203	26.91878	18.93906	0.1921063	0.0789946	0.1431177	0.06412309
0.024463	0.03	15.2286	16.11484	0.8605986	0.6872875	0.879338	0.1920505
0.038081	0.00181	27.42786	14.19291	0.2238717	0.4824615	0.5953181	0.1128566
0.01501	0.02321	16.34317	18.23608	0.1729074	0.1061022	0.1776629	0.07156073
0.005648	0.01175	19.29795	22.48096	0.3908426	0.3153234	0.4013891	0.08606568
0.0028	0.00148	28.29948	25.52824	0.1662008	0.0776615	0.1468278	0.06916633
0.010804	0.00063	31.98329	19.66409	0.7437388	0.8111796	0.748221	-0.0629586
0.003183	0.04256	13.70963	24.9711	0.446793	0.5275749	0.3822758	-0.1452991
0.012071	3.71E-05	44.3045	19.1826	0.2512634	0.6308656	0.7702498	0.1393843
0.007109	0.00131	28.82121	21.48178	0.826221	0.7041157	0.5959411	-0.1081746

0.04799	0.01092	19.61686	13.18846	0.6769825	0.4966536	0.6155724	0.1189187
0.004458	0.00124	29.05331	23.50853	0.5518873	0.6452136	0.5628325	-0.08238116
0.00659	0.02506	16.00986	21.81124	0.64919	0.7957847	0.6107969	-0.1849878
0.009212	0.00251	26.0007	20.35643	0.9096051	0.5032985	0.2959192	-0.2073793
5.15E-05	2.50E-05	46.01596	42.87975	0.1912418	0.0875086	0.1807338	0.09322517
0.033298	0.04396	13.56913	14.77577	0.8687086	0.7922174	0.8760973	0.08387985
0.015517	9.01E-05	40.45281	18.09205	0.3110524	0.7208109	0.6353826	-0.08542836
0.020512	0.01719	17.64716	16.87986	0.2644614	0.1658688	0.2563877	0.09051891
0.047109	0.01278	18.93629	13.269	0.7810076	0.6512552	0.56461	-0.08664524
0.007747	0.0072	21.42868	21.10854	0.7106932	0.847762	0.7017899	-0.1459721
0.012336	0.00214	26.69562	19.08825	0.9164315	0.814835	0.8757656	0.06093059
0.011849	0.0163	17.87772	19.26326	0.8909013	0.9495193	0.8847959	-0.06472337
0.015056	0.01051	19.78272	18.22287	0.098128	0.1817412	0.2472309	0.06548964
0.006942	0.02809	15.51427	21.58537	0.542522	0.617801	0.5139763	-0.1038246
0.04841	0.04598	13.37456	13.15062	0.8444228	0.698982	0.5425919	-0.1563901
0.000781	0.00114	29.44279	31.07511	0.2871776	0.1571956	0.271719	0.1145233
0.034573	0.01824	17.39012	14.61264	0.7792637	0.7084536	0.6411248	-0.06732883
0.03163	0.00408	23.89561	14.99897	0.7790037	0.6567051	0.7296531	0.07294801
0.032841	0.034	14.68523	14.83581	0.8903443	0.79159	0.8915108	0.09992087
0.000161	6.49E-05	41.88001	37.93618	0.2087366	0.1101735	0.1830401	0.07286663
0.011669	0.00679	21.68402	19.32966	0.7898667	0.6948577	0.7770758	0.08221813
0.007194	0.01074	19.69074	21.43019	0.7332314	0.8494862	0.7248274	-0.1246588
0.009006	0.02697	15.69196	20.45461	0.6634471	0.572916	0.6930977	0.1201817
0.000518	0.00033	34.77605	32.85381	0.5264415	0.6592287	0.5319209	-0.1273078
0.002882	0.00285	25.45001	25.4026	0.8562715	0.7756515	0.855896	0.08024452
0.029793	0.01108	19.554	15.25892	0.8520484	0.9226292	0.8707672	-0.05186195
0.03947	0.00067	31.76871	14.03734	0.505575	0.2835943	0.2103373	-0.07325698
0.006363	0.02174	16.6266	21.96331	0.6970485	0.7817068	0.6745809	-0.1071259
0.036792	0.03267	14.85819	14.34248	0.5373184	0.40611	0.5295286	0.1234185
0.007585	4.71E-05	43.27423	21.20057	0.8337362	0.7195701	0.63663	-0.08294012
0.040478	0.02138	16.69965	13.92779	0.8684077	0.7042441	0.8304713	0.1262272
0.019179	0.02829	15.48351	17.17177	0.8243311	0.7037168	0.5795538	-0.1241629
0.039733	4.59E-05	43.37741	14.00848	0.8639683	0.6052343	0.5329639	-0.07227046
0.000428	6.80E-05	41.67216	33.68409	0.7276426	0.5283547	0.4254552	-0.1028995
0.00234	0.00041	33.84718	26.30802	0.8930456	0.7455222	0.853404	0.1078818
0.00134	0.0015	28.24156	28.72942	0.5902046	0.6528685	0.5862918	-0.06657667
0.003104	6.23E-05	42.05553	25.08112	0.7103114	0.5540488	0.4774989	-0.07654987
0.00124	0.00236	26.26993	29.06562	0.6581858	0.8776805	0.672083	-0.2055975
0.000995	0.01926	17.15294	30.01965	0.8289899	0.7774799	0.6003475	-0.1771325
0.005854	6.38E-06	51.9549	22.32546	0.1502565	0.2567972	0.3745929	0.1177957
0.013542	0.04378	13.58701	18.68307	0.7645147	0.8652999	0.7234346	-0.1418653
0.009247	9.32E-05	40.30692	20.33991	0.7777848	0.561757	0.4665504	-0.09520657
0.032253	0.02314	16.35721	14.91424	0.8459486	0.9203261	0.8545793	-0.06574679
0.000401	0.00082	30.85035	33.97336	0.4364837	0.510031	0.4271846	-0.08284645
1.21E-05	1.07E-05	49.70175	49.18479	0.1849205	0.1040077	0.1947636	0.09075587
0.00701	0.00421	23.75544	21.54274	0.7867153	0.8770537	0.8010717	-0.07598195
0.002609	0.0021	26.77198	25.83533	0.2480677	0.1868043	0.241445	0.05464064
0.003196	0.00304	25.17019	24.95399	0.5544161	0.805845	0.5801554	-0.2256896
0.033639	0.00022	36.55854	14.7316	0.5527458	0.7151571	0.7713014	0.05614431
0.034655	0.03637	14.39295	14.60233	0.908457	0.7731356	0.9119718	0.1388362
0.027217	0.02023	16.93985	15.65157	0.586482	0.6686389	0.5934095	-0.07522938
0.02668	1.57E-06	58.04654	15.7381	0.6989164	0.3489085	0.435566	0.08665749
0.004748	4.66E-05	43.31785	23.2351	0.799844	0.5480524	0.6620335	0.1139811
0.049207	0.02044	16.89585	13.07974	0.2303993	0.1085655	0.2000229	0.0914574

0.001226	0.00362	24.41006	29.11649	0.8776173	0.9342081	0.8831069	-0.05110117
0.022839	0.0239	16.21597	16.41321	0.7806278	0.861842	0.7803284	-0.08151361
0.014762	0.02166	16.6432	18.30861	0.8076294	0.8804896	0.8022457	-0.07824396
0.00014	0.00022	36.49223	38.53804	0.214737	0.1192523	0.2193667	0.1001144
0.001993	0.00243	26.1362	27.00403	0.6890149	0.8387129	0.6844527	-0.1542603
0.016876	0.00575	22.40277	17.72723	0.8884085	0.8224799	0.7271943	-0.09528562
0.002663	1.46E-06	58.35994	25.74554	0.1180077	0.5941972	0.6941386	0.09994148
3.28E-06	0.00012	39.18717	54.83714	0.6912495	0.8166643	0.6662682	-0.1503961
0.018769	0.0136	18.66508	17.26554	0.5921056	0.7651522	0.6150882	-0.1500639
0.000816	0.00196	27.07203	30.88276	0.8444408	0.9047152	0.8308224	-0.07389278
0.038134	0.01715	17.65726	14.18689	0.8126481	0.6947265	0.7837544	0.08902787
0.003588	0.00153	28.14006	24.4512	0.5685285	0.6872327	0.5936527	-0.09357999
2.48E-05	5.23E-05	42.81467	46.05132	0.3462326	0.4616985	0.3485198	-0.1131787
0.002837	0.00416	23.81403	25.47174	0.783139	0.7131245	0.786862	0.07373751
0.025049	0.00315	25.01362	16.01218	0.2054579	0.101703	0.1631302	0.06142713
0.001075	0.00048	33.19164	29.68609	0.5262427	0.6952895	0.5296687	-0.1656207
0.011118	0.03322	14.78561	19.53987	0.2618075	0.4167225	0.2083896	-0.2083329
2.55E-05	3.85E-05	44.1503	45.94303	0.0967167	0.0387357	0.0986523	0.05991654
0.018881	0.0358	14.461	17.23973	0.8354322	0.7592846	0.6644095	-0.0948751
0.020248	0.01934	17.13476	16.93628	0.3992687	0.3061383	0.3990484	0.09291001
0.025386	0.03892	14.09856	15.95407	0.2593909	0.1803857	0.2679981	0.08761239
0.002104	1.55E-06	58.0949	26.76989	0.8218938	0.4307078	0.2801326	-0.1505752
0.006069	8.42E-07	60.74881	22.16889	0.4215394	0.7760919	0.6833681	-0.09272379
0.006992	1.15E-06	59.40484	21.55417	0.3171231	0.7015547	0.6151966	-0.08635811
0.001816	3.35E-05	44.75509	27.40985	0.1293904	0.0639263	0.1177759	0.05384965
0.01489	0.00148	28.28492	18.27104	0.8843313	0.7282665	0.5930154	-0.1352511
0.039721	0.01278	18.93601	14.00982	0.8157602	0.6755262	0.7736654	0.09813926
0.004332	0.00513	22.89557	23.63274	0.800477	0.7252913	0.8041881	0.0788969
0.00337	0.00208	26.82899	24.72366	0.9133025	0.9659033	0.9114407	-0.05446259
0.011671	0.00668	21.75276	19.3289	0.1300342	0.0556778	0.1186327	0.06295494
0.016353	0.00994	20.02594	17.8639	0.5909393	0.787748	0.6160889	-0.1716591
0.01553	0.00693	21.59324	18.08825	0.4011246	0.5166881	0.4392499	-0.07743823
2.31E-05	1.11E-06	59.53638	46.37064	0.8504317	0.939917	0.8634533	-0.07646376
0.02487	0.03183	14.97181	16.04332	0.8184615	0.7497706	0.8224607	0.07269005
0.004654	0.00184	27.34824	23.32171	0.1880116	0.1141129	0.1834348	0.06932189
0.000779	0.00035	34.59056	31.08473	0.0756966	0.4352933	0.5958941	0.1606008
0.041697	0.02088	16.80293	13.7989	0.7340864	0.8293815	0.7553325	-0.07404896
0.012177	0.00568	22.45724	19.14452	0.8862962	0.9414634	0.8874502	-0.05401312
0.026831	0.00676	21.69848	15.7137	0.8725726	0.7509644	0.5969408	-0.1540236
0.019509	0.00118	29.26294	17.09756	0.2040346	0.322103	0.3874956	0.06539259
0.003768	0.00483	23.1637	24.23928	0.8581134	0.9416832	0.866136	-0.07554722
0.041603	2.98E-05	45.25492	13.80873	0.1074417	0.6173101	0.714861	0.09755085
0.01035	0.00441	23.5604	19.85066	0.7941141	0.7133715	0.7822692	0.06889766
0.00804	0.00402	23.96195	20.9476	0.6539708	0.7205992	0.65124	-0.06935924
0.029792	0.0058	22.36602	15.25902	0.0597774	0.225768	0.1346884	-0.09107964
0.006245	0.00699	21.55568	22.0448	0.7251701	0.8532681	0.7190736	-0.1341945
0.017448	0.01144	19.41719	17.58267	0.6284148	0.748831	0.6403374	-0.1084936
0.008912	0.00541	22.66834	20.50006	0.8341553	0.9092423	0.8334674	-0.07577489
0.044975	0.01784	17.48725	13.47025	0.7477394	0.5578405	0.6945465	0.136706
0.001509	0.00206	26.85763	28.21352	0.1739725	0.0919953	0.176414	0.08441868
0.025946	0.01535	18.1392	15.85931	0.257949	0.156303	0.2391217	0.08281872
0.015888	1.30E-05	48.86439	17.98933	0.1807763	0.6826618	0.8077314	0.1250696
0.006754	0.00318	24.97108	21.70463	0.9023629	0.7561674	0.8655192	0.1093519
0.037243	0.02063	16.85455	14.28952	0.8252878	0.7243516	0.8094487	0.08509701



0.00146	0.00013	39.03022	28.357	0.3373198	0.1934645	0.3040771	0.1106126
0.044826	0.04533	13.43582	13.48466	0.6463847	0.7501701	0.6461002	-0.1040698
3.59E-05	0.00019	37.25044	44.45332	0.7831214	0.7273462	0.7841257	0.05677951
0.000687	0.00028	35.53944	31.62899	0.6829497	0.840494	0.7047018	-0.1357922
0.002416	0.00181	27.41799	26.16871	0.1212435	0.064989	0.1189208	0.05393182
0.030758	0.00445	23.51582	15.12047	0.132633	0.2781614	0.3804641	0.1023027
0.004508	0.00845	20.73391	23.45981	0.8078879	0.899011	0.8115764	-0.08743453
0.043983	0.02307	16.369	13.56716	0.2099956	0.1245838	0.193897	0.06931318
0.01523	0.00653	21.85142	18.17299	0.8626977	0.927326	0.8759503	-0.05137573
0.026612	0.00518	22.85435	15.74924	0.4459944	0.5485719	0.4743616	-0.07421038
0.004726	0.0123	19.10058	23.25528	0.891207	0.9414771	0.8784061	-0.06307098
0.016924	0.00104	29.82838	17.71494	0.1661048	0.2632914	0.3727694	0.109478
0.049636	0.03687	14.33307	13.04202	0.6621822	0.5785607	0.6554491	0.07688844
0.005304	0.00335	24.74764	22.75402	0.8534761	0.7498971	0.8442864	0.09438937
0.008402	0.00232	26.33943	20.75626	0.3469326	0.507261	0.6073458	0.1000848
0.016634	0.01437	18.42502	17.78999	0.7721303	0.6801046	0.7710722	0.09096763
0.020142	0.01237	19.07709	16.95907	0.0321527	0.0947639	0.0424887	-0.05227515
0.015708	0.02083	16.81355	18.0389	0.750323	0.6949962	0.760061	0.06506477
0.003653	0.00763	21.17423	24.37338	0.7738096	0.8828799	0.7571198	-0.1257601
0.000464	0.00117	29.32205	33.3306	0.7772554	0.9032145	0.7998876	-0.1033268
0.006574	0.04381	13.58382	21.822	0.3432362	0.4115311	0.5151051	0.103574
6.41E-05	0.00043	33.67877	41.93336	0.6371233	0.7498732	0.6152867	-0.1345865
0.004238	0.0007	31.54747	23.72789	0.6460235	0.7426198	0.6654221	-0.07719769
0.032001	5.92E-05	42.27453	14.94839	0.8563048	0.5632143	0.6431075	0.07989317
0.015925	0.03458	14.61225	17.97933	0.7242872	0.80679	0.6983753	-0.1084146
0.00189	0.00121	29.17064	27.23443	0.8428348	0.9179237	0.8239322	-0.09399155
0.016879	0.00274	25.62035	17.72646	0.8410046	0.685901	0.7819166	0.09601558
9.82E-07	0.00018	37.41536	60.08055	0.1277576	0.0697902	0.1368822	0.06709202
0.033754	0.00087	30.6107	14.71669	0.2353644	0.435166	0.4934111	0.05824507
0.031102	0.00028	35.57293	15.0721	0.7661698	0.5945285	0.5305771	-0.06395137
0.013357	0.01612	17.9268	18.74294	0.5208325	0.6940722	0.5214701	-0.1726021
0.003197	0.01187	19.25554	24.95224	0.5028467	0.584516	0.4903715	-0.09414451
0.021954	0.00073	31.38465	16.58479	0.0667969	0.2358772	0.3445381	0.1086609
0.000748	0.00246	26.09933	31.26229	0.6786526	0.7818062	0.6627983	-0.119008
0.000863	0.00322	24.92714	30.63893	0.29924	0.23629	0.3173512	0.0810612
0.000958	0.00103	29.85989	30.18613	0.7026492	0.8304551	0.7028063	-0.1276488
0.001228	0.0023	26.37804	29.10948	0.5396956	0.8573467	0.6062636	-0.251083
0.029266	0.01561	18.0654	15.33637	0.584558	0.6368353	0.5778415	-0.05899382
0.001713	0.00104	29.82246	27.66367	0.7376445	0.8127674	0.7430423	-0.06972507
0.043891	0.00407	23.9064	13.57629	0.8995349	0.7062135	0.6261851	-0.08002844
0.008487	0.02447	16.11287	20.71231	0.6147681	0.710115	0.5832508	-0.1268642
0.011198	0.00121	29.18968	19.50846	0.6747127	0.595489	0.6500266	0.0545375
0.037495	0.01326	18.7731	14.26028	0.8824916	0.7802346	0.7015628	-0.0786718
0.003142	0.00371	24.30361	25.02805	0.4007167	0.239532	0.3737517	0.1342197
0.023882	0.00575	22.4052	16.21938	0.738042	0.4298171	0.1972913	-0.2325258
0.000242	0.0008	30.96506	36.1557	0.4270512	0.5306885	0.3984693	-0.1322192
0.04734	0.00221	26.56007	13.24772	0.8768762	0.7060381	0.6237233	-0.08231477
0.014794	0.00071	31.50265	18.29914	0.8481719	0.7262634	0.7845209	0.05825752
0.038929	0.00122	29.14929	14.09723	0.1704724	0.2694733	0.3590956	0.08962231
0.032913	0.04264	13.70207	14.82635	0.9598109	0.8372024	0.7068435	-0.1303589
0.000753	0.00015	38.10749	31.2338	0.7955381	0.6833435	0.7656702	0.08232671
0.01712	0.00716	21.45388	17.66491	0.6220375	0.4921558	0.3983926	-0.09376319
0.001101	0.0022	26.57838	29.58325	0.8750361	0.7450609	0.8762709	0.13121
0.004024	0.00373	24.28828	23.95313	0.8627476	0.7799877	0.7054827	-0.074505

0.017817	0.01721	17.64168	17.49162	0.341004	0.2629111	0.3401555	0.0772443
0.048042	0.00999	20.00607	13.18381	0.8242553	0.7302686	0.7881967	0.05792813
0.009367	0.00228	26.41628	20.28395	0.1116954	0.0211348	0.1079669	0.08683208
2.81E-06	6.39E-05	41.94337	55.51087	0.6773386	0.8815628	0.656666	-0.2248969
0.007936	0.00145	28.37422	21.00404	0.1607154	0.0491647	0.1111608	0.06199608
0.027889	1.51E-05	48.20732	15.5457	0.894493	0.6914608	0.5959863	-0.09547452
0.001623	0.00025	35.9664	27.89607	0.1525921	0.052436	0.1353631	0.0829271
0.010478	0.00177	27.53157	19.79719	0.2738026	0.18819	0.2521249	0.063935
0.003541	0.02254	16.47121	24.50858	0.7702559	0.8297148	0.7301635	-0.09955131
0.004768	0.00025	35.95038	23.21628	0.788969	0.5761684	0.704174	0.1280056
0.005707	0.0074	21.30978	22.43609	0.7931519	0.8916065	0.7895193	-0.1020871
0.026272	0.03435	14.64076	15.80507	0.2850688	0.3735369	0.4809007	0.1073638
0.009878	0.0048	23.18533	20.05322	0.8324241	0.7190841	0.8053186	0.08623452
0.00264	0.00011	39.45185	25.78399	0.9104574	0.7917563	0.8617947	0.07003841
0.042751	0.01996	16.99818	13.69052	0.8941596	0.8223982	0.8784547	0.05605642
0.022586	0.01596	17.9696	16.46165	0.5991402	0.6656698	0.5923762	-0.07329357
0.000668	7.43E-06	51.29202	31.75243	0.1019635	0.0394912	0.0925115	0.05302024
0.00443	0.00078	31.05873	23.53586	0.4029474	0.5278543	0.6144423	0.08658794
0.006147	0.01484	18.28502	22.11313	0.7901034	0.876446	0.7685633	-0.1078827
9.68E-05	0.00047	33.31607	40.14339	0.6717443	0.7787566	0.6468443	-0.1319123
0.047929	0.02645	15.77628	13.19401	0.5321434	0.432071	0.5146903	0.0826193
0.016907	2.64E-05	45.79201	17.71927	0.2792228	0.1558266	0.2165654	0.06073882
0.001579	0.00029	35.32943	28.01492	0.1993342	0.1276405	0.1833704	0.05572996
0.000619	0.00244	26.118	32.08231	0.6667918	0.7343158	0.6452548	-0.08906092
0.039182	0.00183	27.37251	14.06917	0.8032359	0.6861691	0.7549726	0.06880351
0.049136	0.0473	13.25098	13.08604	0.8640271	0.7917572	0.8614765	0.06971935
0.003279	0.00419	23.77659	24.84231	0.2192245	0.1319035	0.1970371	0.06513364
0.003235	0.00979	20.09226	24.90073	0.8295702	0.8830984	0.792464	-0.09063445
0.037565	0.01791	17.4686	14.25215	0.0634342	0.1195586	0.2294221	0.1098635
0.00125	0.00131	28.83865	29.03083	0.8776692	0.7341236	0.6030259	-0.1310977
0.017084	9.93E-05	40.03193	17.67412	0.8656153	0.6755212	0.7494021	0.07388091
0.029598	0.02693	15.69822	15.28738	0.834242	0.6729526	0.8272385	0.1542859
0.00745	0.00067	31.71619	21.27868	0.265601	0.08879	0.1854168	0.09662686
0.020143	0.00134	28.73041	16.95885	0.8420124	0.7133913	0.7837933	0.07040196
0.035092	0.00879	20.5594	14.54794	0.4058769	0.5875322	0.6943001	0.1067679
0.012825	0.01662	17.79442	18.91937	0.1459648	0.0882106	0.1449973	0.0567867
0.000936	0.00062	32.09501	30.28778	0.2281056	0.1231269	0.2179069	0.09478
0.00035	0.00065	31.87941	34.56031	0.5923715	0.6848536	0.5883326	-0.09652104
0.031959	0.03335	14.76912	14.95412	0.269581	0.3612718	0.4521258	0.09085397
0.047054	0.01969	17.05723	13.27401	0.0811222	0.1673172	0.1082355	-0.05908168
0.006837	0.00285	25.45587	21.65105	0.2514345	0.1430287	0.2402736	0.0972449
0.003808	0.00148	28.294	24.19278	0.8945037	0.9448424	0.8785368	-0.06630559
0.019607	0.04428	13.53748	17.07583	0.7404911	0.8183162	0.7168509	-0.1014654
0.000509	9.48E-05	40.23235	32.93271	0.7590509	0.8498956	0.7489435	-0.100952
0.03208	0.02698	15.69033	14.93761	0.638126	0.7770525	0.645696	-0.1313564
0.016185	2.52E-06	55.98716	17.90884	0.8216732	0.6953932	0.6257763	-0.06961691
0.007965	0.00356	24.48138	20.98801	0.4322853	0.3703537	0.4323566	0.06200289
0.000117	6.79E-05	41.6829	39.31488	0.1937688	0.1270082	0.1904093	0.06340115
0.000976	0.00066	31.80734	30.1039	0.8366981	0.9215147	0.8014481	-0.1200666
0.039422	0.04598	13.37441	14.04261	0.8261197	0.737398	0.8355579	0.0981599
0.024397	0.01016	19.93154	16.12668	0.8585905	0.6897572	0.8008064	0.1110492
0.029577	0.00581	22.35832	15.2905	0.661786	0.56567	0.4956667	-0.07000332
0.008006	0.00105	29.78984	20.96571	0.7997922	0.8998767	0.8438063	-0.05607034
0.002282	0.00315	25.01208	26.41688	0.7554239	0.6166631	0.4641416	-0.1525214

0.018617	0.00018	37.33818	17.30084	0.7889491	0.5726215	0.655768	0.0831465
0.017853	0.01957	17.08354	17.48292	0.8764327	0.9335634	0.8793489	-0.05421447
0.004093	0.0001	39.90245	23.8796	0.0998403	0.2965973	0.4002051	0.1036078
0.022855	1.63E-06	57.88538	16.41012	0.1864096	0.790753	0.8624842	0.07173115
0.011825	0.01657	17.80742	19.27191	0.8292686	0.9178396	0.8311877	-0.08665188
0.030718	3.55E-06	54.49424	15.12602	0.1703452	0.7540408	0.809385	0.05534425
0.037754	0.00926	20.33204	14.23038	0.0877493	0.2995253	0.4237716	0.1242463
0.02861	0.0115	19.3938	15.43489	0.5681654	0.4517168	0.5373507	0.08563399
0.037604	0.01071	19.70309	14.24764	0.7653601	0.6585296	0.730787	0.07225737
0.03874	0.0167	17.7732	14.11841	0.2832479	0.1447989	0.2594873	0.1146884
0.015252	0.00626	22.03417	18.16677	0.4071255	0.2453673	0.3814609	0.1360936
0.047134	0.01414	18.49667	13.26665	0.8480951	0.6017551	0.7612245	0.1594694
0.000179	0.00065	31.88977	37.48144	0.724326	0.8751541	0.7469302	-0.128224
0.001721	0.00625	22.03872	27.64271	0.7867329	0.865651	0.7666034	-0.09904762
0.015659	0.02245	16.48694	18.05248	0.6486554	0.7719738	0.6416604	-0.1303134
0.000967	0.0003	35.19854	30.1441	0.7999657	0.7362268	0.788406	0.05217923
0.037778	0.02373	16.24793	14.22761	0.7890388	0.6706019	0.7741783	0.1035764
0.042805	0.00676	21.70055	13.68505	0.8499814	0.7182768	0.6210189	-0.0972579
0.004926	0.02789	15.54568	23.07516	0.2200678	0.1345559	0.2629599	0.128404
0.039267	0.00077	31.13125	14.05968	0.7631958	0.5529912	0.6514813	0.09849006
0.015908	8.86E-07	60.52365	17.98396	0.8439973	0.5297171	0.4422237	-0.08749335
4.52E-06	1.78E-06	57.49492	53.4494	0.6728914	0.8025023	0.6760289	-0.1264734
0.025126	0.02956	15.29272	15.99884	0.3031642	0.2265013	0.2969348	0.0704336
0.026708	0.02039	16.90649	15.73354	0.4963926	0.3475026	0.4806333	0.1331307
1.67E-05	2.12E-05	46.73104	47.76564	0.0912772	0.0274131	0.0932347	0.0658216
0.002689	0.00647	21.89225	25.70374	0.3971471	0.4782512	0.3825401	-0.09571113
0.005438	0.01423	18.46753	22.64543	0.8540244	0.9335592	0.8414434	-0.09211576
0.034904	0.04339	13.62585	14.57126	0.9035146	0.8469193	0.9056338	0.05871448
0.030494	0.00534	22.72522	15.1578	0.8469622	0.7492862	0.8087242	0.05943792
0.038272	0.03028	15.18778	14.17123	0.5683069	0.6413662	0.5724937	-0.06887247
0.027406	0.02029	16.92706	15.62159	0.6914924	0.7827249	0.6936272	-0.08909761
0.016616	0.0271	15.67013	17.79486	0.6124141	0.6965157	0.596089	-0.1004268
0.017281	0.0074	21.30511	17.62432	0.55364	0.6912081	0.5959402	-0.0952679
0.008427	0.00324	24.89852	20.74321	0.7914709	0.6798643	0.7719898	0.09212542
0.028472	0.0086	20.65659	15.45586	0.4853605	0.2267416	0.3800867	0.1533451
0.003025	0.00284	25.46239	25.19321	0.8591188	0.9266261	0.8619576	-0.06466855
0.008889	0.03334	14.77058	20.51141	0.6481717	0.7011449	0.6274772	-0.07366772
0.008379	0.00175	27.56561	20.76807	0.2313026	0.4339575	0.5464809	0.1125234
0.001565	0.00243	26.14024	28.05484	0.5533104	0.7174604	0.5742633	-0.1431971
0.001842	0.0005	33.02955	27.34596	0.1309444	0.0607007	0.1167834	0.05608269
0.000102	1.60E-05	47.94685	39.92991	0.6683238	0.8356872	0.7098938	-0.1257934
0.015673	0.00483	23.15806	18.04841	0.8701121	0.788983	0.8522903	0.06330728
0.012362	1.91E-06	57.19594	19.07923	0.828548	0.62174	0.5542537	-0.06748631
0.01683	0.00548	22.61246	17.73929	0.7133508	0.8048506	0.7387754	-0.06607514
0.026187	0.04232	13.73456	15.81907	0.6429917	0.5270553	0.3888034	-0.138252
0.037059	0.00257	25.89243	14.31101	0.1868656	0.3990938	0.4950984	0.0960046
0.045939	0.0055	22.59369	13.37814	0.5478111	0.6363975	0.5848603	-0.05153715
0.020345	0.00756	21.21447	16.91549	0.8664879	0.6950523	0.8150708	0.1200186
0.038196	0.01014	19.93965	14.17986	0.9743984	0.8618296	0.7689986	-0.09283103
0.002063	0.00387	24.12512	26.85399	0.8161554	0.888561	0.811736	-0.07682503
0.016198	0.00914	20.39214	17.90537	0.8296745	0.7636768	0.8212599	0.05758312
0.035621	0.02483	16.05086	14.4829	0.8834955	0.9489167	0.8946316	-0.05428504
0.003714	0.00035	34.527	24.3019	0.7004986	0.6059939	0.6696457	0.06365186
0.049686	0.01202	19.20012	13.03765	0.8585483	0.6571735	0.7746443	0.1174708

0.017307	0.00064	31.94702	17.61772	0.8982586	0.8196125	0.7075272	-0.1120853
0.016549	0.02923	15.34132	17.81241	0.5369597	0.4642877	0.5499797	0.08569205
0.00053	0.00146	28.35639	32.75345	0.3848706	0.2093421	0.3766868	0.1673447
0.001926	0.0011	29.58925	27.1527	0.7186619	0.793977	0.7286066	-0.06537034
0.026978	0.00824	20.84059	15.68983	0.8587548	0.7435817	0.8286827	0.08510105
0.001643	0.00829	20.81559	27.84315	0.8752972	0.9344031	0.8725738	-0.06182923
0.032008	0.03747	14.26264	14.94735	0.8059395	0.6530293	0.4981999	-0.1548293
0.045167	0.01027	19.88324	13.45175	0.1333846	0.2698926	0.3610804	0.0911878
0.008264	0.00844	20.73493	20.82784	0.5545729	0.6244608	0.559742	-0.06471872
0.009478	0.03584	14.45675	20.23291	0.8863361	0.7734449	0.6226326	-0.1508123
0.038553	0.00064	31.94603	14.13938	0.7124093	0.544952	0.6280394	0.08308734
0.010405	0.00788	21.03548	19.82761	0.7759677	0.9049873	0.7924765	-0.1125108
1.91E-05	0.00014	38.4293	47.19178	0.2613276	0.1345145	0.2581706	0.1236561
0.01864	0.04123	13.84771	17.29548	0.6583142	0.7258673	0.6455749	-0.08029242
0.032121	0.01123	19.49622	14.93211	0.9516566	0.7769294	0.6460023	-0.1309271
0.031096	0.04434	13.53201	15.07293	0.6380362	0.7232	0.6268836	-0.0963163
0.001719	0.04837	13.15393	27.64794	0.6167415	0.5493137	0.4395496	-0.1097641
0.004359	0.00771	21.13164	23.60579	0.6422402	0.5063818	0.3939377	-0.112444
0.00266	0.01208	19.17762	25.7509	0.3442785	0.2843899	0.3690021	0.08461218
0.005324	0.00288	25.40922	22.73803	0.8292952	0.678855	0.5439244	-0.1349306
5.55E-05	1.29E-05	48.90965	42.55536	0.2422125	0.7324029	0.8054242	0.07302138
0.00933	0.0002	37.01063	20.30125	0.25788	0.4246601	0.3496383	-0.07502176
0.023719	0.00159	27.97782	16.24903	0.9000354	0.7025453	0.7928805	0.09033517
6.48E-06	1.94E-06	57.13087	51.8863	0.7321582	0.8906604	0.7305292	-0.1601312
0.008382	0.0331	14.80176	20.76675	0.5384638	0.6369838	0.5015857	-0.1353981
0.001438	0.0004	33.95584	28.42115	0.2598854	0.0994449	0.2494406	0.1499957
0.049195	0.02371	16.25156	13.08081	0.8797174	0.7559937	0.8489556	0.09296185
0.009792	0.0089	20.50719	20.09149	0.5950913	0.6769575	0.5982926	-0.07866486
2.05E-06	4.96E-08	73.04845	56.87232	0.9040648	0.8042622	0.8801284	0.07586613
0.000351	7.98E-05	40.97754	34.54095	0.2243428	0.1478495	0.2209404	0.07309082
0.000132	6.02E-05	42.20396	38.80046	0.8301167	0.9183537	0.829347	-0.08900674
0.01261	0.00925	20.34028	18.99268	0.1435452	0.0771908	0.1384833	0.06129255
0.047732	0.0001	39.86039	13.21189	0.7838739	0.5309445	0.602049	0.07110449
0.009496	0.00224	26.50231	20.22438	0.1691871	0.0909004	0.156481	0.06558059
0.000432	5.19E-05	42.84475	33.64335	0.5315239	0.6041908	0.5398166	-0.06437413
0.003731	0.00509	22.93384	24.28212	0.7048826	0.7759386	0.6986086	-0.07733002
0.020664	0.03266	14.85987	16.84779	0.6042042	0.4695573	0.3672473	-0.10231
0.010509	0.00983	20.07438	19.78457	0.2423798	0.3836032	0.5302008	0.1465975
0.006559	0.01242	19.05736	21.83165	0.7506768	0.8780209	0.7218445	-0.1561764
0.003073	0.00198	27.03191	25.12416	0.8707848	0.9284011	0.8270956	-0.1013054
0.000161	0.00031	35.03034	37.92587	0.7859628	0.9141822	0.7935628	-0.1206194
0.043622	2.10E-05	46.78043	13.60291	0.6221744	0.9175964	0.854024	-0.06357238
0.000413	1.69E-05	47.71624	33.83958	0.7597219	0.8822423	0.8067303	-0.07551192
0.038978	0.01745	17.58204	14.09184	0.8227199	0.7300032	0.7962852	0.06628195
0.003479	8.01E-07	60.96265	24.58544	0.1262764	0.52294	0.4206989	-0.1022411
0.000377	0.00036	34.46872	34.24163	0.7921172	0.885255	0.790513	-0.09474193
0.016864	0.01529	18.15561	17.73044	0.7196047	0.8114135	0.7220309	-0.08938251
0.026805	0.00777	21.09739	15.71783	0.6683663	0.7459411	0.6839257	-0.06201539
0.013388	0.01656	17.80845	18.73298	0.5608614	0.7400151	0.5561065	-0.1839087
0.027447	0.03159	15.00482	15.61508	0.6256553	0.7423528	0.6229354	-0.1194174
0.002288	0.00188	27.26146	26.40631	0.8352365	0.7568864	0.8319246	0.07503816
0.008935	0.00749	21.25432	20.48911	0.2179716	0.137427	0.2082054	0.07077842
0.026271	0.02571	15.89932	15.80531	0.7422064	0.8022472	0.7432558	-0.05899144
0.002103	0.01887	17.24134	26.771	0.8730794	0.8190055	0.7348158	-0.0841898

0.022486	0.02048	16.88708	16.4808	0.6934427	0.8250287	0.6986395	-0.1263892
0.032264	0.00034	34.70754	14.91288	0.1344796	0.358344	0.4440327	0.08568866
0.018639	0.03029	15.18737	17.29574	0.7374595	0.7956422	0.7273248	-0.06831731
0.005562	0.01295	18.87654	22.54793	0.8183829	0.7432254	0.8379525	0.09472714
0.000181	0.00084	30.74588	37.43395	0.4182608	0.4755363	0.4028501	-0.07268618
0.000838	3.92E-05	44.07198	30.76584	0.8854576	0.8088017	0.8659222	0.05712057
0.009931	0.00188	27.26923	20.03013	0.8202302	0.6789547	0.76767	0.08871529
0.037193	0.00258	25.87829	14.29544	0.8132947	0.6810359	0.7448071	0.06377125
0.003104	0.00354	24.50771	25.08058	0.8892008	0.9535494	0.8898458	-0.06370359
0.019601	0.01019	19.91773	17.07722	0.8307155	0.7651637	0.6900535	-0.07511012
0.015452	0.02589	15.86931	18.11028	0.9041198	0.8208805	0.7128194	-0.1080611
6.91E-05	4.99E-05	43.01739	41.60778	0.2482358	0.111951	0.2263574	0.1144064
0.024458	2.53E-05	45.96862	16.11571	0.6929272	0.524191	0.4591943	-0.06499665
1.43E-05	3.79E-06	54.21918	48.44909	0.5319465	0.6092213	0.5483151	-0.06090616
0.01835	0.03315	14.79471	17.36362	0.7732512	0.7161027	0.7882743	0.07217164
0.000635	0.00971	20.12804	31.97328	0.793825	0.8513559	0.7611967	-0.09015919
0.011621	0.01002	19.98989	19.34749	0.1137905	0.2704661	0.4089222	0.1384561
0.030305	0.00618	22.0882	15.18492	0.827879	0.7007625	0.776605	0.07584251
0.010301	0.00824	20.84293	19.87133	0.1238659	0.0703953	0.1211214	0.0507261
0.035295	0.0006	32.24133	14.52286	0.1446573	0.3594849	0.4492562	0.08977138
0.012363	0.00341	24.67328	19.07893	0.7133206	0.5823436	0.6849169	0.1025732
0.038808	0.03144	15.02477	14.11079	0.2651572	0.3387378	0.4096428	0.07090499
0.000375	7.72E-05	41.12606	34.26468	0.2758585	0.1263665	0.2407173	0.1143507
0.031098	0.00224	26.50108	15.07261	0.4151676	0.1900993	0.2777216	0.08762231
0.043221	0.02402	16.19421	13.64304	0.8789394	0.7823987	0.7038178	-0.07858088
0.029357	0.01447	18.39568	15.32285	0.5986746	0.6837313	0.7525082	0.06877695
0.000325	0.00029	35.36428	34.88452	0.2233641	0.1500391	0.2443967	0.09435759
0.030627	0.00908	20.41993	15.13897	0.8974242	0.7587907	0.6574846	-0.1013061
0.046229	0.00078	31.08374	13.35088	0.7551323	0.6843787	0.6178628	-0.06651592
0.010306	0.01645	17.83874	19.86909	0.8321161	0.8987299	0.8385048	-0.06022516
0.044432	0.01417	18.48633	13.52302	0.1182155	0.2597803	0.3874467	0.1276664
4.60E-05	2.41E-05	46.17492	43.37589	0.7163983	0.8652617	0.7407293	-0.1245324
0.023981	0.01229	19.10578	16.20129	0.5099521	0.6767135	0.5468426	-0.1298709
0.041101	0.01261	18.99385	13.86144	0.859476	0.6176518	0.4696848	-0.147967
0.034117	0.02643	15.77834	14.67035	0.8248477	0.8879259	0.8318226	-0.0561033
0.04321	0.00013	38.73399	13.64418	0.5691216	0.2137374	0.2880602	0.07432275
0.037362	7.85E-07	61.05291	14.27565	0.1254526	0.5751097	0.6261009	0.05099123
0.013133	0.00258	25.87683	18.81635	0.796125	0.686202	0.7632635	0.07706146
0.005225	0.00013	39.0295	22.81934	0.7206904	0.6453769	0.7061886	0.0608116
0.015318	0.00126	28.99015	18.1479	0.1514387	0.4544026	0.6096035	0.1552009
0.011456	0.00022	36.52947	19.40964	0.7894225	0.5616742	0.4613175	-0.1003567
0.009448	4.89E-07	63.10394	20.24665	0.0613897	0.1989605	0.2769742	0.07801367
0.030623	0.04157	13.81184	15.13954	0.8381688	0.7837961	0.695886	-0.08791018
0.002058	0.00284	25.46723	26.86654	0.5424684	0.7026244	0.5696217	-0.1330027
0.006634	0.02459	16.09217	21.78245	0.6110322	0.7116292	0.580015	-0.1316142
0.008555	0.04506	13.46202	20.67791	0.0956388	0.1607171	0.2805912	0.1198741
0.006239	0.00773	21.11818	22.04881	0.6163622	0.3849831	0.6270709	0.2420878
0.035129	0.00484	23.15586	14.54333	0.9416216	0.8286431	0.7398182	-0.08882488
0.004406	4.48E-05	43.48315	23.55917	0.7801988	0.59061	0.6776211	0.08701108
0.010377	0.01952	17.09595	19.83935	0.7394406	0.8135339	0.7274307	-0.08610322
0.005875	0.00576	22.39734	22.30962	0.7053872	0.8230572	0.7101656	-0.1128916
0.007706	0.00088	30.56572	21.13175	0.0688628	0.3667595	0.5076678	0.1409083
0.033939	0.00286	25.43959	14.69296	0.1292769	0.4182622	0.5510499	0.1327877
0.006265	0.00655	21.83946	22.03058	0.1878473	0.0973704	0.1861616	0.08879123

0.01272	0.00892	20.49747	18.9553	0.2849641	0.1999443	0.33167	0.1317257
0.019685	0.00326	24.87008	17.05857	0.8861624	0.7893772	0.7229651	-0.06641217
0.015903	0.00146	28.34602	17.98526	0.6720626	0.5250181	0.605495	0.08047695
0.021097	0.0005	33.00743	16.75788	0.6442232	0.4140908	0.4945148	0.08042403
0.04347	0.01928	17.14866	13.61808	0.848826	0.784677	0.8357317	0.05105467
0.034614	7.22E-07	61.41222	14.60752	0.1171615	0.6119211	0.5350102	-0.07691096
0.017267	0.02358	16.27538	17.62795	0.924299	0.8500751	0.7596643	-0.09041073
0.012041	0.01277	18.93881	19.19322	0.6922139	0.8620957	0.6945937	-0.167502
0.012535	0.00352	24.536	19.01859	0.1502945	0.2556349	0.1804126	-0.07522228
0.005814	0.01044	19.81285	22.35501	0.5669309	0.7339969	0.5471691	-0.1868277
0.00249	0.00182	27.39868	26.03871	0.1449412	0.0793485	0.1390338	0.05968527
0.011045	0.00848	20.71692	19.56825	0.8573167	0.9108728	0.8582941	-0.05257865
0.04803	8.04E-06	50.94779	13.18486	0.8391587	0.717334	0.6273329	-0.09000113
0.015958	0.01083	19.65351	17.97016	0.8313455	0.6842522	0.5696965	-0.1145557
0.000363	0.00044	33.56869	34.3971	0.799354	0.8783336	0.7994844	-0.07884916
0.033675	0.00934	20.29785	14.72698	0.0706966	0.3211144	0.4856144	0.1645
0.006098	6.14E-05	42.1162	22.14803	0.0880886	0.4211065	0.5232192	0.1021127
0.005942	0.00011	39.47636	22.26101	0.3219736	0.580912	0.699968	0.1190561
0.009841	0.00867	20.61787	20.06954	0.2415968	0.1634663	0.2389985	0.07553217
0.000836	0.00013	38.81975	30.77695	0.8070367	0.9131126	0.8303531	-0.08275948
0.004715	0.00139	28.56287	23.26552	0.0648802	0.2752602	0.3955054	0.1202452
0.004742	0.02675	15.72628	23.24053	0.7871253	0.8616565	0.748369	-0.1132875
0.000112	7.12E-06	51.47337	39.49604	0.1769656	0.0870368	0.1581339	0.0710971
0.028006	0.01545	18.11106	15.5275	0.2199141	0.1289585	0.2052846	0.07632603
0.044259	0.00313	25.04801	13.54001	0.846092	0.711994	0.6434776	-0.06851644
0.00371	0.00274	25.6257	24.30585	0.2662741	0.1558036	0.2583472	0.1025435
0.019089	0.019	17.21322	17.19226	0.7540966	0.6342561	0.5167825	-0.1174737
0.012058	0.01769	17.5218	19.18727	0.6710253	0.7295213	0.6646065	-0.06491479
0.028424	0.01353	18.68775	15.4631	0.9315296	0.7879607	0.6648484	-0.1231123
0.014886	0.00762	21.17768	18.27228	0.5840426	0.6801335	0.5993931	-0.08074038
0.027924	0.04329	13.63566	15.54022	0.8055511	0.7340436	0.8143605	0.08031687
0.014133	0.01153	19.38069	18.49765	0.1515923	0.0921414	0.1432412	0.05109984
0.048163	0.04075	13.89865	13.17284	0.8931528	0.725199	0.8821537	0.1569547
0.026141	1.23E-06	59.08781	15.82681	0.1550648	0.4642501	0.5333385	0.06908832
0.006479	0.00193	27.1368	21.88483	0.1467493	0.0753716	0.1312038	0.05583219
0.02275	3.25E-05	44.88371	16.43016	0.8732728	0.6883649	0.7447202	0.05635536
1.42E-05	0.0068	21.67693	48.48838	0.793335	0.8436453	0.7606907	-0.08295455
0.015129	0.00069	31.5875	18.20189	0.1496989	0.2558454	0.3226148	0.06676938
0.001761	0.00107	29.71018	27.542	0.8878282	0.9494666	0.890207	-0.05925962
0.018758	0.02519	15.98715	17.26816	0.8085059	0.7477093	0.8139793	0.06626996
0.014873	1.02E-06	59.92852	18.27594	0.9172688	0.7419612	0.6423102	-0.09965103
0.037627	0.00754	21.22734	14.245	0.8767657	0.7762333	0.8360674	0.05983422
0.015839	0.03854	14.1411	18.00261	0.7189205	0.8124096	0.6954703	-0.1169394
0.03659	0.03873	14.11967	14.36635	0.3578028	0.421304	0.4917607	0.0704567
0.003309	0.0075	21.24794	24.80367	0.8948738	0.9487252	0.8851957	-0.06352946
0.037746	0.04262	13.70399	14.23133	0.5615109	0.6656724	0.5643008	-0.1013716
0.021111	0.00248	26.06406	16.75501	0.0963291	0.4134388	0.5885991	0.1751603
0.007842	0.00023	36.31437	21.05595	0.650356	0.7243193	0.6666275	-0.05769178
0.029186	5.51E-05	42.58773	15.34832	0.829349	0.6596153	0.7201589	0.06054362
0.000925	0.00192	27.17511	30.33903	0.7312521	0.8417667	0.723529	-0.1182377
0.035899	0.00587	22.31473	14.44919	0.889576	0.5547893	0.379926	-0.1748633
0.023545	0.00031	35.15621	16.28094	0.2616076	0.5100121	0.6043962	0.09438409
0.008525	0.02172	16.63157	20.69301	0.7753162	0.8277696	0.763127	-0.06464261
0.021369	0.00173	27.61226	16.70221	0.0409594	0.513622	0.684971	0.171349

0.024656	0.02147	16.68223	16.08073	0.5308618	0.4292367	0.531124	0.1018873
0.013866	0.00031	35.10613	18.58054	0.1275365	0.334606	0.4206672	0.08606128
0.040102	0.02913	15.35654	13.96835	0.307696	0.2304074	0.3025174	0.07210997
0.001868	0.00037	34.31456	27.28686	0.1122377	0.4525418	0.6216127	0.1690709
0.000781	0.00158	28.0229	31.07238	0.246324	0.1288251	0.2354368	0.1066116
0.008716	0.00055	32.62823	20.59668	0.4239875	0.3302746	0.3951624	0.06488775
0.004303	0.00545	22.63932	23.66221	0.8210232	0.9147692	0.8361543	-0.07861494
0.029758	1.23E-05	49.11783	15.26399	0.0715862	0.2422828	0.3083572	0.06607439
0.009085	0.00332	24.78292	20.41697	0.2347321	0.1190213	0.217552	0.09853075
0.013638	0.00304	25.1674	18.65259	0.1682099	0.2456872	0.33523	0.08954287
8.46E-05	0.00087	30.60793	40.72555	0.088909	0.0323531	0.0870431	0.05468998
0.012984	0.00309	25.09633	18.86577	0.8793792	0.7823936	0.8489798	0.0665862
0.012104	0.01066	19.72427	19.17059	0.5653929	0.6494913	0.5715927	-0.07789858
0.016529	0.01986	17.02049	17.81758	0.4827257	0.6040052	0.479197	-0.1248081
0.007973	0.00014	38.64975	20.98394	0.7266585	0.5333217	0.6211382	0.08781649
0.00098	0.03676	14.34587	30.08608	0.3439529	0.2540416	0.3862621	0.1322205
0.036882	0.01645	17.83864	14.33183	0.6578059	0.7547203	0.6752487	-0.0794715
0.000121	0.00011	39.44823	39.18789	0.1377466	0.0671014	0.1372258	0.0701244
0.017249	0.00828	20.81739	17.63226	0.1854856	0.0934229	0.1692527	0.07582985
0.018814	0.0183	17.37568	17.25516	0.7604952	0.6728223	0.7595017	0.08667939
0.045087	0.03831	14.1672	13.45945	0.6284667	0.7286233	0.6338073	-0.09481605
0.002381	0.00788	21.03599	26.23283	0.5545352	0.6362429	0.5443854	-0.09185749
0.00061	1.43E-05	48.44693	32.14354	0.099557	0.0433905	0.0935698	0.05017934
0.015383	0.00021	36.80303	18.12973	0.507808	0.3369493	0.2489503	-0.08799899
0.038177	0.00042	33.8017	14.18203	0.3369797	0.693259	0.759253	0.06599397
0.028786	0.00709	21.49363	15.40813	0.0858464	0.1833677	0.1124362	-0.07093142
0.040853	0.00658	21.81817	13.88777	0.7877658	0.7054229	0.7611411	0.05571828
0.009847	0.01694	17.71068	20.06684	0.7096415	0.8022463	0.7058652	-0.09638109
0.008873	0.01423	18.46711	20.51929	0.2776008	0.1781241	0.2771821	0.09905803
0.035546	0.00529	22.76388	14.49212	0.7985973	0.6160992	0.5244609	-0.09163832
0.005292	0.03328	14.77867	22.76403	0.7774477	0.7209945	0.7989135	0.07791901
0.033919	0.00132	28.78141	14.69559	0.7787376	0.6627219	0.7154262	0.05270427
0.039654	0.02189	16.59776	14.01711	0.7513459	0.8356026	0.7688064	-0.06679618
0.002558	0.00579	22.37631	25.92159	0.9032893	0.9543245	0.893115	-0.06120957
1.26E-06	3.29E-05	44.82497	59.00055	0.5693497	0.6656566	0.5673125	-0.09834413
0.048849	0.00464	23.33812	13.11143	0.822816	0.7551567	0.6556565	-0.09950023
0.044514	0.03278	14.84435	13.51499	0.8926534	0.8333345	0.8869928	0.05365825
0.005159	0.00372	24.2949	22.87414	0.7763014	0.8525481	0.7867174	-0.06583069
0.018188	0.00343	24.65236	17.40217	0.8939075	0.7492822	0.8312173	0.08193506
0.033056	0.01265	18.98029	14.80746	0.811066	0.7184766	0.7846811	0.06620448
0.003383	0.00032	34.92112	24.70658	0.3232356	0.1748179	0.2763108	0.1014929
5.62E-06	5.95E-06	52.25601	52.50203	0.3143699	0.1516429	0.3024613	0.1508185
0.032958	0.0027	25.68718	14.82035	0.6335837	0.7946656	0.7070787	-0.08758685
0.003711	0.00551	22.58497	24.30565	0.8472818	0.9205949	0.853983	-0.06661186
0.026082	0.0269	15.70246	15.83656	0.8130128	0.7056534	0.7838848	0.07823145
0.02398	0.02013	16.96229	16.20147	0.5021422	0.3126345	0.4878583	0.1752238
0.023978	0.0114	19.43155	16.20195	0.7605951	0.8377225	0.7758981	-0.06182437
0.016452	0.01506	18.22277	17.83777	0.5338734	0.6920766	0.541616	-0.1504606
0.041694	0.00441	23.55746	13.79923	0.7701913	0.6189597	0.7061114	0.0871517
0.036535	2.19E-05	46.58723	14.37293	0.8080559	0.6530765	0.574654	-0.07842255
0.003196	0.00023	36.30954	24.95423	0.3302582	0.1569194	0.261778	0.1048585
0.015749	6.85E-06	51.64166	18.02749	0.8306489	0.7288228	0.7871746	0.05835173
0.00039	0.00218	26.61286	34.09384	0.8537976	0.9648948	0.8517473	-0.1131475
0.027958	0.00981	20.08157	15.53492	0.9145088	0.8341011	0.89195	0.05784887

0.027059	0.00741	21.30324	15.67682	0.7428756	0.6204876	0.7019321	0.08144453
0.04675	0.00423	23.73874	13.30216	0.1820212	0.1100935	0.1607965	0.05070302
0.045794	0.00036	34.45074	13.39192	0.7834719	0.5790999	0.64869	0.06959011
0.006344	0.00499	23.02079	21.97613	0.6233106	0.7105815	0.6289619	-0.08161967
0.017264	0.02142	16.69185	17.62871	0.5472657	0.4395128	0.3414104	-0.09810241
0.030461	0.00107	29.70931	15.16249	0.4553936	0.308859	0.2416835	-0.06717552
0.023654	0.00013	38.83947	16.26087	0.2215199	0.6163067	0.7251769	0.1088701
0.032549	0.03163	14.99866	14.87462	0.8574896	0.7757907	0.8546553	0.0788646
0.0072	0.00574	22.41213	21.42666	0.8705475	0.9348918	0.8809817	-0.05391004
0.001423	8.02E-05	40.95968	28.46912	0.8505632	0.9029307	0.8507178	-0.05221286
9.75E-08	1.76E-08	77.53533	70.11018	0.5714378	0.7877467	0.574677	-0.2130698
6.04E-06	7.84E-06	51.05666	52.18977	0.2198115	0.1264544	0.2142585	0.08780415
0.00179	0.00024	36.14405	27.47135	0.8101331	0.8823153	0.8141969	-0.06811843
0.025013	0.00082	30.83933	16.01833	0.8179152	0.6960497	0.6025687	-0.09348107
0.027846	0.01388	18.57525	15.55244	0.8415677	0.7632581	0.8344156	0.07115749
0.032653	0.01363	18.65569	14.86077	0.6655365	0.816741	0.7088058	-0.1079353
0.006059	0.00784	21.05882	22.17609	0.8736147	0.9497179	0.874866	-0.07485184
0.005483	0.00126	29.01017	22.60961	0.8086	0.7441972	0.7975046	0.05330733
0.021779	0.01259	19.00037	16.61969	0.8094972	0.8790386	0.8143705	-0.06466815
0.021238	0.01426	18.4574	16.72885	0.7296675	0.8532806	0.7438549	-0.1094256
0.012517	3.24E-05	44.8981	19.02483	0.8797454	0.7693605	0.8203319	0.05097137
0.003396	0.00561	22.51306	24.68974	0.4667527	0.5762453	0.4752463	-0.100999
0.018168	0.02681	15.71728	17.40684	0.7857448	0.8723773	0.7761315	-0.09624588
0.038358	0.01158	19.36188	14.16141	0.5898855	0.6777936	0.6127221	-0.06507152
0.015544	0.0049	23.09654	18.08439	0.8287143	0.7340593	0.7971795	0.0631202
0.010709	0.00508	22.94223	19.70271	0.8176643	0.6677869	0.7767562	0.1089693
0.015048	0.00386	24.13088	18.22509	0.1592385	0.0786924	0.129577	0.05088453
1.16E-05	5.54E-06	52.56197	49.36763	0.7134134	0.8295284	0.7132586	-0.1162698
0.02748	0.0178	17.49554	15.60988	0.8340901	0.7650859	0.8254686	0.06038265
0.003658	0.00274	25.62745	24.36711	0.5640416	0.6670465	0.5726817	-0.09436489
0.006749	0.02108	16.76113	21.7075	0.4236612	0.3367026	0.4374999	0.1007974
0.011005	0.00708	21.49896	19.58411	0.4642149	0.405394	0.4584668	0.05307281
0.034406	0.0002	37.07839	14.6337	0.1069189	0.3716407	0.4626455	0.09100477
0.006151	0.0108	19.66629	22.11077	0.8762749	0.8153428	0.8795908	0.06424801
0.001669	0.00355	24.49318	27.77651	0.5636398	0.6349938	0.5295299	-0.1054639
0.000711	2.93E-05	45.33717	31.48113	0.61452	0.7526457	0.6774777	-0.07516804
0.000334	0.00179	27.47774	34.7587	0.802065	0.8963363	0.7505683	-0.145768
0.040053	0.00372	24.29153	13.97363	0.8277172	0.7036049	0.7684032	0.06479828
0.000359	0.00101	29.97463	34.45007	0.5236595	0.6776709	0.517044	-0.1606269
0.01239	0.00127	28.94604	19.06924	0.7851809	0.9185619	0.8106704	-0.1078914
0.01124	0.00043	33.63271	19.49253	0.1531133	0.4428331	0.5722612	0.1294281
0.000583	0.00036	34.43122	32.33977	0.069919	0.1830838	0.0769757	-0.1061081
0.018754	0.0007	31.56913	17.26895	0.0894118	0.432561	0.5392136	0.1066526
0.009881	0.00202	26.94565	20.05218	0.8536907	0.670347	0.7690845	0.09873749
0.026065	0.03234	14.90202	15.83938	0.8807875	0.9351177	0.8801661	-0.05495162
0.009179	0.01905	17.20152	20.37228	0.7656383	0.8434935	0.7442895	-0.09920409
0.003625	0.00068	31.69757	24.40635	0.8465648	0.7143438	0.811677	0.09733313
0.018579	0.0032	24.95249	17.30972	0.8455973	0.677766	0.7767611	0.09899512
0.01972	0.00298	25.26141	17.05104	0.7324849	0.6245214	0.6956576	0.07113616
0.006875	0.02036	16.91124	21.62709	0.7173593	0.6167192	0.7462182	0.1294989
0.000444	0.00038	34.18253	33.52993	0.76299	0.9248393	0.7841908	-0.1406485
0.003713	0.00466	23.31558	24.30303	0.7128806	0.6348982	0.7196132	0.08471499
0.000794	0.00074	31.29407	30.99932	0.6061674	0.6574739	0.5990458	-0.05842815
0.006193	0.00697	21.56688	22.08092	0.7210295	0.8347753	0.7233242	-0.1114511



0.020301	0.00201	26.97619	16.9248	0.8528601	0.5828083	0.4693644	-0.1134438
0.018033	0.0154	18.12543	17.43941	0.48043	0.3612927	0.4667118	0.1054191
0.015168	0.0082	20.86037	18.1907	0.4324158	0.3410465	0.4149714	0.07392491
0.017136	0.02293	16.39518	17.66093	0.6477549	0.7713391	0.6476772	-0.1236619
0.017571	0.02867	15.4255	17.55196	0.8860047	0.8184587	0.895255	0.07679626
0.001214	0.00107	29.70601	29.15636	0.2625094	0.1496482	0.2637622	0.114114
0.044534	0.00618	22.08853	13.51308	0.3435784	0.4801768	0.5606109	0.08043413
0.030218	0.02268	16.44315	15.19728	0.8556752	0.7424043	0.8484023	0.105998
0.030861	0.01149	19.3961	15.10594	0.8850626	0.7749364	0.8547025	0.07976607
0.043368	0.01108	19.55463	13.62831	0.0874035	0.3877641	0.5731371	0.185373
0.011863	0.00435	23.61385	19.25801	0.1572713	0.0916138	0.1459369	0.05432314
0.001595	0.00143	28.45324	27.97198	0.2558538	0.1413269	0.245357	0.1040301
0.021904	0.0065	21.87398	16.59476	0.1552741	0.0751701	0.1296761	0.05450603
0.001992	0.00157	28.04355	27.00787	0.5601242	0.6204423	0.5595336	-0.0609087
2.68E-06	1.53E-05	48.16611	55.71192	0.3225073	0.196974	0.3104967	0.1135226
0.012002	0.02127	16.72292	19.20732	0.2547314	0.3298902	0.4138677	0.08397751
0.030419	0.0188	17.2579	15.16857	0.5868221	0.6999054	0.6047276	-0.09517774
0.01655	0.00061	32.13654	17.81198	0.8684108	0.6172341	0.7105262	0.09329206
0.006601	8.74E-07	60.58266	21.8038	0.7996396	0.6151403	0.5350209	-0.08011936
0.024054	0.01595	17.97301	16.18818	0.035722	0.1683832	0.0614935	-0.1068897
0.032825	0.00071	31.51366	14.83801	0.3366434	0.7106145	0.5887871	-0.1218274
0.01485	0.00065	31.84883	18.28283	0.065369	0.3699738	0.5665097	0.1965359
0.018152	0.00077	31.11743	17.41076	0.829695	0.7477992	0.6573269	-0.09047224
0.042654	0.02699	15.68821	13.7004	0.9103479	0.8350162	0.7676187	-0.06739756
0.040932	0.00371	24.31135	13.8794	0.8105666	0.7012588	0.637898	-0.0633608
0.001921	0.00041	33.89812	27.16363	0.646111	0.8011655	0.6655956	-0.13557
0.046533	1.25E-06	59.03643	13.32237	0.8265444	0.6090506	0.4970598	-0.1119908
8.62E-06	3.91E-06	54.08037	50.64487	0.7799846	0.8826268	0.7735037	-0.1091231
0.012083	0.03059	15.14488	19.17813	0.5825985	0.6940898	0.5579393	-0.1361505
0.004742	0.00125	29.02398	23.24053	0.8532122	0.7840397	0.8397737	0.05573394
0.014358	0.01141	19.42898	18.42919	0.739661	0.8762188	0.7509987	-0.1252201
0.015192	0.01256	19.01121	18.18394	0.4179148	0.600062	0.4285197	-0.1715423
0.009255	0.00137	28.63516	20.33644	0.4307575	0.3387314	0.4127701	0.07403868
0.017167	0.04073	13.90081	17.65315	0.5870468	0.6684795	0.5636683	-0.1048112
0.002503	0.01481	18.29361	26.01455	0.5812206	0.6478966	0.541463	-0.1064336
0.006235	0.0115	19.39147	22.05132	0.5694377	0.6203413	0.563838	-0.05650328
0.043468	0.00299	25.24202	13.61831	0.672525	0.4934068	0.5881301	0.09472321
0.024928	0.02737	15.62723	16.03312	0.8931956	0.7649252	0.8975517	0.1326264
0.023559	0.02472	16.06914	16.27838	0.8526287	0.7198408	0.8531891	0.1333484
0.000361	7.63E-06	51.17355	34.42236	0.8058664	0.9226937	0.8560402	-0.06665353
0.030273	0.00016	37.82798	15.18941	0.1937077	0.4827326	0.3758043	-0.1069283
0.040779	0.04231	13.73533	13.89558	0.8636758	0.8106197	0.8638284	0.05320872
0.004906	0.00618	22.08731	23.09238	0.3202487	0.5084234	0.7055947	0.1971714
0.041447	0.00321	24.93703	13.82507	0.2492791	0.4117431	0.493564	0.08182085
0.010434	0.01986	17.01924	19.81532	0.4509735	0.5654647	0.4286646	-0.1368001
0.01553	0.02865	15.42862	18.08838	0.6769834	0.5839345	0.4745786	-0.1093559
0.017124	0.02305	16.37391	17.66403	0.6288871	0.7670202	0.6174455	-0.1495747
0.000393	0.0006	32.2458	34.05705	0.783049	0.8592332	0.7764139	-0.08281931
0.015909	0.00422	23.74702	17.98347	0.1958903	0.2791946	0.2011947	-0.07799988
0.010629	0.01098	19.59555	19.73516	0.7307087	0.8605922	0.7309743	-0.1296179
0.005997	0.01409	18.50949	22.22098	0.6114279	0.6622361	0.6006258	-0.06161033
0.000139	0.00026	35.78659	38.58186	0.6051674	0.6830499	0.5974588	-0.08559104
0.037479	0.0024	26.19782	14.2621	0.9054745	0.7779114	0.8330624	0.05515099
0.00247	0.00102	29.89754	26.07362	0.1540395	0.0520093	0.1323646	0.08035535

0.00399	0.00353	24.52492	23.99019	0.3805658	0.3047243	0.3913629	0.08663857
0.000134	0.00053	32.77461	38.72965	0.6254175	0.8208253	0.6345785	-0.1862468
0.010094	0.01692	17.71684	19.95916	0.8650863	0.8041397	0.8738706	0.06973085
0.001098	0.00207	26.83361	29.59589	0.1319784	0.0584258	0.136861	0.07843517
0.000408	0.00193	27.15209	33.89382	0.6431439	0.7005277	0.6102378	-0.0902898
0.000978	0.00241	26.18792	30.09542	0.4082235	0.2585711	0.402755	0.1441839
0.044472	0.02459	16.09241	13.51912	0.8189728	0.6742315	0.7941823	0.1199509
0.04284	0.04494	13.4739	13.68153	0.8623059	0.9261314	0.8620008	-0.0641306
0.003928	0.00266	25.74369	24.05832	0.2292222	0.1429773	0.227577	0.08459966
0.043329	0.00424	23.72178	13.6322	0.7542895	0.6030672	0.681833	0.07876582
0.048525	0.03211	14.93313	13.14037	0.9066978	0.8388436	0.8954222	0.05657855
0.010652	0.0044	23.57018	19.72559	0.512749	0.6104141	0.5446771	-0.06573696
0.018705	0.00028	35.50938	17.28034	0.0976259	0.5395761	0.6757728	0.1361967
0.016741	0.0115	19.39376	17.76208	0.8335176	0.7647862	0.8245604	0.05977418
0.002178	1.28E-06	58.91976	26.62013	0.7995023	0.8878952	0.7974889	-0.09040629
7.87E-05	1.27E-06	58.9458	41.03978	0.7005392	0.8242224	0.7553189	-0.06890349
0.018515	0.00872	20.59267	17.32483	0.8200242	0.7423517	0.8040228	0.06167112
0.011904	0.01259	18.99998	19.24316	0.7319499	0.7973764	0.730464	-0.06691236
0.010125	0.00323	24.9103	19.94591	0.178528	0.1060027	0.1622661	0.05626345
0.039232	0.03022	15.19702	14.0636	0.2137323	0.3810707	0.5347109	0.1536402
0.024558	0.02159	16.65803	16.09811	0.0856282	0.1512306	0.2373958	0.08616517
0.031488	0.04746	13.23636	15.0185	0.6614254	0.7397114	0.6194622	-0.1202492
0.003026	3.03E-06	55.1815	25.19119	0.1977342	0.612483	0.5011787	-0.1113043
0.005096	0.00916	20.37962	22.92808	0.7313781	0.8671396	0.6906081	-0.1765315
0.014234	0.03848	14.1476	18.46677	0.3988602	0.4626011	0.3819728	-0.08062834
0.023568	0.0422	13.74661	16.27683	0.697853	0.7544507	0.6845838	-0.06986688
0.003417	0.00692	21.60007	24.66412	0.4557628	0.3597888	0.2496382	-0.1101506
0.004689	0.00346	24.61413	23.28906	0.6524293	0.7159982	0.6608182	-0.05518007
0.001795	0.03559	14.48692	27.45984	0.7989274	0.8552777	0.7379633	-0.1173144
0.013014	0.0228	16.42043	18.85582	0.2923689	0.4333928	0.5263148	0.09292197
0.011074	0.03073	15.12438	19.55709	0.5376579	0.5880843	0.519864	-0.0682203
0.007889	0.0095	20.22118	21.02988	0.8545308	0.7504327	0.6454108	-0.1050219
1.35E-06	1.56E-05	48.08047	58.70007	0.5648501	0.6445025	0.5462233	-0.09827918
4.18E-05	2.14E-06	56.69259	43.78576	0.801647	0.8920051	0.797103	-0.09490217
0.01789	0.00075	31.2326	17.47401	0.8957329	0.477344	0.3414483	-0.1358957
0.001314	0.00055	32.5978	28.81275	0.8294399	0.911646	0.8398611	-0.07178496
0.005976	0.00428	23.6882	22.2357	0.3956734	0.2634674	0.3727506	0.1092833
0.030481	0.03261	14.86699	15.15964	0.8915557	0.8049469	0.7099954	-0.09495148
0.012724	0.00216	26.65829	18.95392	0.273472	0.1964864	0.3000816	0.1035952
0.006441	0.0014	28.5505	21.9107	0.848997	0.7760577	0.8307415	0.05468388
0.018512	0.01846	17.33751	17.32546	0.5338281	0.6976336	0.5331809	-0.1644527
0.039313	0.01383	18.59257	14.05469	0.8497882	0.9250605	0.8726659	-0.05239461
0.014919	0.03892	14.09808	18.26248	0.9190809	0.8561633	0.934239	0.07807572
0.000403	0.00018	37.39564	33.9422	0.8142107	0.912533	0.8093963	-0.1031367
0.002189	0.00233	26.32173	26.59814	0.8243613	0.7668418	0.8257912	0.05894947
0.000993	0.02065	16.85104	30.02984	0.5392529	0.61679	0.5242161	-0.09257391
0.003688	2.05E-05	46.88705	24.33154	0.8653369	0.7548844	0.8051007	0.05021634
0.01796	0.00638	21.95038	17.45695	0.861003	0.7461172	0.8392791	0.09316192
0.000921	0.00011	39.60575	30.35624	0.5407321	0.6197916	0.5605151	-0.05927655
0.001766	0.00128	28.92195	27.53056	0.8924924	0.7963423	0.8848053	0.08846293
0.010466	0.00032	34.91969	19.80202	0.8469886	0.7667925	0.7035673	-0.06322528
0.010254	0.04623	13.35095	19.89092	0.809036	0.750876	0.8382851	0.08740906
0.01297	0.02385	16.2251	18.87045	0.7519614	0.8267773	0.7461513	-0.08062603
0.000585	0.00024	36.27667	32.32926	0.6122569	0.7285354	0.6107728	-0.1177626

0.00285	0.00297	25.27715	25.4509	0.8579839	0.9379633	0.86326	-0.07470331
0.013046	0.03088	15.10359	18.84527	0.6979954	0.8091587	0.6776261	-0.1315326
0.046447	0.03226	14.91389	13.33045	0.8092456	0.6874983	0.5801326	-0.1073657
0.010244	0.02177	16.62194	19.8951	0.8486244	0.9239952	0.8403697	-0.08362546
0.006483	0.00039	34.09013	21.88245	0.5299033	0.6416863	0.5775825	-0.06410373
0.015265	6.82E-05	41.66079	18.16291	0.7534353	0.5003418	0.4052912	-0.09505064
0.002235	0.00515	22.87843	26.50709	0.672329	0.7642803	0.6590592	-0.1052212
0.040496	0.03389	14.69878	13.9259	0.7571851	0.5599968	0.7461591	0.1861623
0.000125	0.00046	33.37238	39.01648	0.5482843	0.6358621	0.5431202	-0.09274187
0.00817	0.00142	28.47102	20.87767	0.8727236	0.6692032	0.5588005	-0.1104027
0.031691	0.01047	19.79871	14.9906	0.8840566	0.7793123	0.8457561	0.06644378
0.005955	0.0059	22.29129	22.25107	0.721403	0.7779313	0.7208595	-0.05707178
0.006009	0.01087	19.6395	22.21219	0.1848989	0.308309	0.3862035	0.07789444
0.004267	0.0037	24.32047	23.69911	0.6573814	0.7684889	0.6523957	-0.1160932
0.046443	0.03217	14.92495	13.33075	0.484898	0.6276358	0.4919035	-0.1357323
0.029849	0.00068	31.69884	15.25074	0.7415382	0.6583939	0.709968	0.05157409
0.000183	0.00015	38.29593	37.36451	0.1462061	0.0605842	0.1368632	0.07627909
0.014976	0.0037	24.31475	18.24605	0.8888769	0.7965314	0.862394	0.06586266
0.030211	0.04621	13.35246	15.19831	0.8632743	0.7962945	0.7066488	-0.08964562
0.00109	2.37E-06	56.24407	29.62695	0.6933935	0.7705825	0.682023	-0.08855951
0.001271	6.89E-05	41.6161	28.95772	0.1841658	0.3656181	0.4488945	0.08327643
0.000492	3.86E-05	44.13922	33.07805	0.8734512	0.6924123	0.8119646	0.1195524
0.021258	1.62E-05	47.89794	16.72477	0.0571271	0.137229	0.07999	-0.05723896
0.038433	0.009	20.45757	14.15294	0.7214094	0.6265839	0.5437484	-0.08283552
0.000181	5.90E-05	42.28904	37.41411	0.8848078	0.8023044	0.8745046	0.07220009
0.006502	0.00337	24.72004	21.86979	0.1237125	0.4452798	0.6809899	0.23571
0.006564	0.00875	20.5819	21.82855	0.0921979	0.2127144	0.3720154	0.159301
0.007054	0.0068	21.67658	21.51576	0.5789936	0.7834581	0.6164598	-0.1669982
0.025931	0.03118	15.06078	15.86175	0.7574682	0.6482833	0.7602276	0.1119442
0.016384	0.01138	19.43934	17.85579	0.9013748	0.8256903	0.8945404	0.06885007
0.006354	0.00138	28.60385	21.96934	0.538884	0.7412344	0.6099051	-0.1313293
0.018323	0.01549	18.09872	17.36992	0.8413101	0.6663916	0.5195352	-0.1468563
0.018923	0.00698	21.56274	17.23002	0.2519354	0.1296059	0.2200299	0.09042396
0.002788	0.00056	32.55255	25.5474	0.8403255	0.6782862	0.7854538	0.1071676
0.001995	0.00661	21.79944	26.99959	0.5445436	0.5967017	0.5455766	-0.05112516
0.002778	0.00281	25.50876	25.56323	0.1272057	0.0504398	0.1288139	0.0783741
0.007385	0.00131	28.82647	21.31654	0.5512648	0.4061985	0.5049307	0.09873216
0.005052	0.00988	20.05405	22.96513	0.5673729	0.5172012	0.5707965	0.05359528
0.028856	0.00057	32.43806	15.39763	0.4000448	0.2230394	0.1594368	-0.06360262
0.02072	0.0014	28.53488	16.83614	0.8307474	0.6280059	0.5135804	-0.1144255
0.002478	0.00224	26.49463	26.05917	0.559696	0.7303075	0.5851759	-0.1451316
0.047439	0.01222	19.13051	13.23866	0.8291792	0.6323143	0.7601365	0.1278223
0.002993	0.00298	25.25181	25.2389	0.142538	0.0668453	0.1316208	0.06477547
0.009087	0.01547	18.10618	20.4157	0.5900553	0.7390742	0.5709215	-0.1681527
0.00816	0.00181	27.43082	20.88313	0.8413215	0.7369344	0.8189719	0.08203746
0.003402	0.00831	20.80286	24.68215	0.3285454	0.2183722	0.3388194	0.1204472
0.000602	0.00046	33.36115	32.20538	0.1034801	0.5694855	0.0961341	-0.4733514
0.006183	0.00831	20.80344	22.08817	0.135698	0.0640136	0.1281666	0.06415302
0.004239	0.00201	26.96377	23.72742	0.8790078	0.9381058	0.8879377	-0.05016811
0.004229	0.00384	24.16082	23.7375	0.3528973	0.2398594	0.3394511	0.09959165
0.001237	0.0011	29.60278	29.0749	0.2723507	0.1446189	0.2655033	0.1208844
0.001725	0.00116	29.3528	27.63329	0.5690937	0.6695024	0.5674739	-0.1020285
0.040589	0.01165	19.33692	13.9159	0.4065692	0.3004873	0.3763997	0.07591236
0.011196	0.02176	16.62366	19.50927	0.853861	0.9497765	0.8518838	-0.09789269

0.001223	0.00142	28.47428	29.12507	0.5127645	0.6337368	0.5377775	-0.09595931
0.01842	0.0016	27.96115	17.34719	0.8516508	0.7682186	0.7007202	-0.06749842
0.007992	0.00285	25.44981	20.97337	0.8942569	0.8220119	0.8830208	0.06100878
0.000651	0.00266	25.75743	31.86624	0.7554933	0.8915632	0.7650145	-0.1265488
0.010365	0.00313	25.04699	19.84444	0.8091085	0.7091093	0.7798552	0.07074584
0.001459	0.00059	32.31266	28.3609	0.6510548	0.7483981	0.6625016	-0.08589647
0.044521	0.02046	16.89155	13.51435	0.8647086	0.7257944	0.8268207	0.1010263
0.034774	0.01103	19.57567	14.58744	0.1531474	0.2525636	0.325653	0.07308944
7.07E-07	1.68E-05	47.7594	61.50864	0.1197305	0.0283398	0.1004369	0.0720971
0.026018	0.00088	30.54642	15.8473	0.1019476	0.2626528	0.3631143	0.1004616
8.02E-05	0.00014	38.48565	40.95643	0.1542991	0.0953058	0.1593997	0.06409396
0.021171	0.00436	23.60577	16.74254	0.270358	0.1790778	0.3042728	0.125195
0.00057	6.06E-05	42.17517	32.44469	0.4061459	0.6622186	0.5012355	-0.1609831
0.01095	0.03987	13.99392	19.60571	0.7437729	0.811156	0.719024	-0.09213195
0.027432	0.02804	15.52271	15.61736	0.1900643	0.0875556	0.1895619	0.1020063
0.007045	0.00431	23.65417	21.52092	0.0673021	0.2696898	0.4075605	0.1378706
0.012633	0.03423	14.6559	18.98479	0.8476389	0.7869657	0.7081836	-0.07878216
0.023703	1.82E-05	47.40707	16.25191	0.3711799	0.1568827	0.1001332	-0.05674955
0.013935	0.02394	16.20814	18.5589	0.8510609	0.7780751	0.8618856	0.08381054
0.000709	0.00053	32.74198	31.49566	0.7402306	0.867702	0.7548996	-0.1128024
0.017307	0.01197	19.21753	17.61775	0.8991972	0.7936484	0.9037755	0.110127
0.000274	7.51E-05	41.24466	35.61732	0.1795621	0.1076435	0.1688951	0.06125161
0.008971	0.00013	38.95433	20.47141	0.7283732	0.591381	0.6486067	0.0572257
8.05E-08	1.63E-07	67.88021	70.94339	0.4546365	0.6349092	0.4332852	-0.2016239
0.022131	7.95E-05	40.99805	16.54991	0.7056765	0.4040363	0.2931529	-0.1108834
3.76E-05	1.30E-05	48.84643	44.24696	0.8128309	0.9114537	0.8343594	-0.07709433
0.000119	2.86E-05	45.43444	39.22977	0.1275187	0.0729924	0.125164	0.05217166
0.020561	0.00105	29.77504	16.86957	0.8047906	0.6412182	0.5630994	-0.07811877
0.018414	0.04793	13.19434	17.34848	0.8127534	0.7347192	0.6330986	-0.1016206
0.02653	0.02563	15.91271	15.76268	0.7602752	0.6463161	0.7581101	0.111794
0.012118	0.00455	23.42275	19.16559	0.096258	0.2864521	0.4291365	0.1426844
0.041845	0.02798	15.5322	13.78354	0.5393431	0.6120352	0.5492843	-0.06275091
0.022835	0.00111	29.53742	16.41398	0.6020764	0.76797	0.8447101	0.07674013
0.000598	0.0001	39.8577	32.23234	0.3072861	0.2370451	0.2916436	0.05459849
0.000161	0.00093	30.30234	37.945	0.5722207	0.8078967	0.5747314	-0.2331653
0.032742	0.03334	14.77064	14.84894	0.6995991	0.766772	0.7002178	-0.06655422
0.045242	0.03191	14.9604	13.4446	0.3758245	0.293057	0.363276	0.07021903
0.035901	0.00061	32.13185	14.4489	0.7504814	0.5486465	0.6284717	0.07982526
0.004199	0.00504	22.97661	23.76847	0.8712237	0.9334911	0.8792925	-0.05419851
2.32E-05	1.50E-06	58.24785	46.34079	0.5364824	0.9013147	0.754337	-0.1469776
0.046244	0.03115	15.06508	13.34944	0.0225056	0.1623557	0.0455059	-0.1168498
0.023773	0.03596	14.44185	16.2392	0.8936931	0.8163565	0.7196277	-0.09672886
0.000801	0.0007	31.54917	30.96126	0.7713622	0.8634183	0.7970307	-0.06638751
0.020907	0.00649	21.87793	16.79716	0.8151518	0.6684212	0.7645437	0.09612245
0.006998	0.00732	21.35687	21.55013	0.0860581	0.1748488	0.0861875	-0.08866121
0.012349	0.0004	33.96563	19.08357	0.693301	0.5542471	0.4797737	-0.07447339
0.034523	0.02032	16.91995	14.61887	0.8389989	0.7700353	0.8280834	0.05804806
0.024584	0.00338	24.70498	16.09352	0.0599792	0.2329136	0.3107499	0.07783623
0.003225	0.01286	18.90701	24.91472	0.8294197	0.8876071	0.8102881	-0.07731899
0.020238	0.00191	27.17972	16.9383	0.8861491	0.7753906	0.833477	0.05808643
0.015481	0.00609	22.15454	18.102	0.8770005	0.9463476	0.8887917	-0.05755584
2.45E-05	7.84E-05	41.05958	46.09964	0.7365794	0.8610839	0.7152717	-0.1458122
0.000578	0.03368	14.72643	32.37847	0.3528761	0.4891352	0.6734416	0.1843064
0.011128	0.03149	15.01799	19.53581	0.7767403	0.8357909	0.759514	-0.07627695

0.008788	0.011	19.58717	20.56085	0.711744	0.8141016	0.7084847	-0.1056169
1.12E-05	7.18E-07	61.43986	49.4981	0.1856733	0.0414724	0.1469118	0.1054394
0.035022	0.00754	21.22411	14.55661	0.0908393	0.201161	0.3174398	0.1162788
0.001269	2.66E-05	45.74535	28.9655	0.8200879	0.6863288	0.7580445	0.07171571
0.00513	0.00934	20.29623	22.89863	0.1663387	0.1009346	0.1700167	0.06908214
0.008907	0.00356	24.48386	20.50278	0.0664751	0.1896157	0.342478	0.1528624
0.007251	0.01331	18.75763	21.3961	0.4168548	0.4888645	0.4114797	-0.07738474
0.034727	9.13E-05	40.39398	14.59335	0.1701038	0.4638424	0.5488412	0.08499885
0.000129	0.00992	20.03506	38.89375	0.728174	0.7861467	0.7120981	-0.07404869
0.020603	0.00752	21.23693	16.86078	0.8143901	0.8881403	0.8226045	-0.06553573
0.028806	0.00774	21.1148	15.40522	0.724659	0.837028	0.7587006	-0.07832741
0.00201	0.00158	28.01729	26.9676	0.7933931	0.8996687	0.8073395	-0.09232917
0.000857	0.00134	28.72551	30.67238	0.681583	0.793286	0.671695	-0.121591
0.003313	0.01039	19.83412	24.7977	0.8396223	0.9102442	0.8162716	-0.09397258
0.0001	2.39E-05	46.22034	39.97936	0.5740958	0.7265878	0.5946742	-0.1319136
0.025176	0.04309	13.65622	15.99014	0.8379348	0.6797486	0.5045044	-0.1752441
0.03752	0.0411	13.86196	14.25737	0.615505	0.6843473	0.6165702	-0.06777703
0.022205	0.02498	16.02433	16.53541	0.7910702	0.6755185	0.5867872	-0.08873138
0.007089	0.00058	32.34835	21.49407	0.532176	0.6940613	0.7856691	0.09160787
0.00747	0.00115	29.38	21.2668	0.2088304	0.4299458	0.5519937	0.1220479
0.004466	0.00166	27.80556	23.50087	0.1849961	0.0794593	0.1513495	0.07189021
0.001665	0.00228	26.41708	27.78491	0.6557031	0.8045273	0.6788306	-0.1256967
0.002251	0.00656	21.82907	26.47563	0.6730999	0.7496098	0.6542559	-0.095354
0.026276	0.00089	30.5001	15.80441	0.8366866	0.7040459	0.7688957	0.06484981
0.008719	0.01193	19.23404	20.59511	0.321889	0.3928945	0.5155172	0.1226226
0.042649	0.00981	20.08146	13.70087	0.8965077	0.8100813	0.8628175	0.05273623
0.016592	0.02564	15.91118	17.8011	0.8980141	0.8465316	0.9008212	0.05428955
0.030936	0.0403	13.94695	15.09531	0.8701581	0.7621381	0.6487061	-0.113432
0.003699	0.00101	29.94016	24.31899	0.128465	0.1961233	0.1317317	-0.06439161
0.002433	0.00103	29.8857	26.13934	0.7804565	0.8671954	0.7930356	-0.07415979
0.005443	0.00013	38.85676	22.64182	0.1725502	0.0930286	0.14594	0.05291143
0.005388	0.02118	16.73996	22.68593	0.8502045	0.7805193	0.5929056	-0.1876137
0.001341	0.00092	30.35552	28.7257	0.5116743	0.3064578	0.4994721	0.1930143
0.004422	0.00621	22.06586	23.54394	0.8153372	0.895276	0.8127928	-0.08248314
0.023459	0.04922	13.07851	16.29686	0.7000487	0.7909012	0.6768551	-0.1140461
0.003717	0.01227	19.11181	24.29766	0.823933	0.8800168	0.8150245	-0.06499231
0.001417	1.91E-05	47.19909	28.48622	0.8000215	0.6533649	0.7246994	0.07133444
0.018254	0.00204	26.9042	17.38636	0.8188426	0.7077649	0.77271	0.06494507
0.046954	0.00049	33.09031	13.28325	0.6506462	0.5005281	0.4414104	-0.0591177
0.000269	0.00076	31.17603	35.69518	0.5638855	0.6502995	0.5549097	-0.0953898
0.021171	0.01421	18.47515	16.7426	0.7270792	0.795184	0.7347364	-0.0604476
0.025868	0.0027	25.69316	15.87238	0.2587675	0.1231483	0.2802066	0.1570583
0.001721	7.65E-07	61.16516	27.64177	0.8918535	0.752685	0.6229564	-0.1297286
0.000626	0.00138	28.61268	32.03215	0.7013487	0.8153105	0.7133484	-0.1019621
0.030671	0.02945	15.309	15.13276	0.7267693	0.6484199	0.7254953	0.07707552
0.013194	0.00141	28.51697	18.79633	0.7965066	0.6374049	0.5394906	-0.0979143
0.01549	0.01204	19.1954	18.09958	0.7850892	0.8676896	0.7911527	-0.07653692
0.000223	0.00039	34.1441	36.51994	0.1230581	0.0693602	0.1258623	0.05650216
0.002033	0.00075	31.27408	26.91822	0.7904328	0.6831945	0.7726606	0.08946613
0.02961	0.02494	16.03048	15.28554	0.6808785	0.800666	0.6866054	-0.1140606
0.008473	0.00399	23.98633	20.71977	0.8869008	0.6670396	0.8490671	0.1820275
0.018804	0.00188	27.25126	17.25746	0.8004858	0.5475289	0.4158898	-0.1316391
0.005646	0.00627	22.02676	22.48254	0.5957795	0.6806575	0.5997452	-0.08091234
0.046642	0.007	21.5479	13.3122	0.1218285	0.3606094	0.2264984	-0.134111

0.005949	0.00507	22.94862	22.2555	0.7556035	0.6861654	0.7424438	0.05627841
0.000423	7.68E-05	41.14777	33.73562	0.7749309	0.8442141	0.7913589	-0.05285528
6.44E-05	3.79E-07	64.21184	41.91446	0.8374307	0.9139057	0.8409923	-0.07291342
0.001914	8.61E-05	40.65006	27.18044	0.7812537	0.6505644	0.7192461	0.06868163
0.00011	0.00031	35.14093	39.5869	0.7495911	0.846871	0.7505279	-0.09634311
0.021896	1.21E-07	69.15916	16.59641	0.3705863	0.7642787	0.8185091	0.05423043
6.22E-06	4.52E-05	43.44881	52.05944	0.701732	0.8306499	0.6950693	-0.1355806
0.011966	0.00183	27.36826	19.22049	0.8063461	0.8692461	0.8132882	-0.05595791
0.026055	0.00198	27.02856	15.84116	0.8695474	0.7675538	0.6664461	-0.1011077
0.042671	0.0097	20.13161	13.69862	0.4638765	0.7516275	0.6063096	-0.1453179
0.010818	0.01292	18.88891	19.65835	0.3493631	0.2343773	0.3548273	0.12045
0.012978	0.00129	28.90842	18.86792	0.8471718	0.7386376	0.8098243	0.07118677
0.006086	0.01268	18.96958	22.15665	0.81385	0.7214785	0.8319743	0.1104959
0.041651	0.01482	18.29287	13.80372	0.8530344	0.6978089	0.8103085	0.1124996
0.002809	0.00145	28.37244	25.5139	0.8899496	0.8181354	0.882547	0.06441166
0.008587	0.00014	38.58934	20.66143	0.6227401	0.7086151	0.6438074	-0.06480778
0.005442	1.57E-05	48.03769	22.64223	0.8188959	0.6227517	0.4714802	-0.1512714
0.00527	0.01495	18.25268	22.78192	0.7699476	0.858896	0.7519874	-0.1069086
0.024468	6.32E-08	71.98965	16.11405	0.1097039	0.6413879	0.716965	0.07557712
0.005193	5.48E-06	52.61004	22.84579	0.1691981	0.054857	0.1403224	0.08546536
0.009139	0.00897	20.47023	20.39091	0.8394498	0.7746004	0.8420042	0.06740379
0.020566	0.04707	13.27234	16.86841	0.7352836	0.6619527	0.5678418	-0.09411093
0.023661	0.04917	13.0826	16.2597	0.6369168	0.7060978	0.6229559	-0.083142
0.00051	0.00038	34.20711	32.92234	0.4113274	0.4704358	0.4060314	-0.06440443
0.002253	7.14E-06	51.46019	26.47188	0.0995186	0.3523671	0.4669738	0.1146067
0.045119	0.00456	23.40785	13.4564	0.9041112	0.7985299	0.8591937	0.06066374
0.046364	0.00143	28.44359	13.3382	0.8315883	0.6712213	0.7399023	0.06868102
0.0083	0.00017	37.59008	20.80918	0.8513646	0.6595924	0.7502807	0.09068834
0.004959	0.00152	28.17232	23.04597	0.1480369	0.2845693	0.3959555	0.1113862
0.003236	4.97E-07	63.03223	24.89928	0.2951727	0.7612823	0.8246772	0.06339493
0.043989	0.03233	14.90434	13.56652	0.8171732	0.7461139	0.8138216	0.06770772
0.000198	0.00105	29.79286	37.02967	0.5317277	0.6218984	0.5473301	-0.07456826
0.008018	0.00614	22.11639	20.95937	0.7344545	0.8646011	0.7604786	-0.1041225
0.007651	0.03032	15.18236	21.16284	0.7412015	0.8995683	0.7592445	-0.1403237
0.003629	0.0063	22.0087	24.40256	0.8769858	0.9475105	0.880007	-0.06750349
0.000855	0.001	30.0042	30.68173	0.78024	0.8711501	0.7689907	-0.1021594
0.007783	0.0034	24.6871	21.08838	0.730617	0.6677944	0.7201867	0.05239223
0.006922	0.00478	23.20447	21.59741	0.8540666	0.6603359	0.8182211	0.1578852
0.016657	0.02029	16.92805	17.78405	0.4726082	0.6851951	0.4612831	-0.223912
0.03273	0.04902	13.09666	14.85049	0.7645708	0.8426409	0.7556421	-0.08699883
0.011347	0.03489	14.57259	19.45115	0.8470026	0.9054165	0.8320441	-0.07337237
0.014428	0.01618	17.91107	18.4078	0.8203417	0.8896289	0.8212667	-0.06836224
0.002299	0.00053	32.76814	26.38553	0.2727593	0.1957711	0.2629268	0.06715572
0.000299	3.19E-05	44.95719	35.24466	0.1268417	0.0463298	0.1177062	0.07137641
0.045255	0.0015	28.23251	13.44332	0.8730755	0.5734417	0.4833416	-0.09010016
0.001837	0.00623	22.05266	27.35839	0.8539253	0.9217961	0.8369857	-0.08481041
0.012725	0.01273	18.953	18.95342	0.7829895	0.5389893	0.7772213	0.238232
0.000848	0.00097	30.11897	30.71482	0.8718952	0.7925017	0.8646758	0.07217406
0.027789	0.00863	20.64101	15.56131	0.9224253	0.8350204	0.7779641	-0.05705627
0.036071	1.56E-05	48.0756	14.4284	0.7566955	0.5197377	0.5986904	0.0789527
0.04609	0.03687	14.33289	13.36389	0.8413138	0.7024847	0.8314362	0.1289515
0.04588	0.0262	15.81689	13.38373	0.8722861	0.7950305	0.8579084	0.06287783
0.004731	0.00065	31.8629	23.25067	0.8298284	0.7297032	0.6423082	-0.087395
0.042176	0.03798	14.20465	13.74932	0.5772199	0.6293753	0.5790161	-0.05035915

0.04978	0.03592	14.44649	13.02947	0.6682532	0.5778605	0.6301175	0.05225708
0.0091	0.00023	36.36351	20.40975	0.8464403	0.9284839	0.8717787	-0.05670522
0.019698	0.02015	16.95652	17.05572	0.2121138	0.1378962	0.2143583	0.07646211
0.000609	0.0029	25.38012	32.15263	0.293918	0.1990847	0.3019417	0.102857
0.040414	0.03247	14.8855	13.93463	0.8168339	0.755425	0.6789817	-0.07644334
0.002928	0.0022	26.58451	25.33359	0.1262587	0.0697365	0.1223717	0.05263519
0.030468	0.03785	14.21899	15.16159	0.7249522	0.6059272	0.4628657	-0.1430615
0.002448	0.00015	38.21841	26.11123	0.7591382	0.8442495	0.7488558	-0.09539372
0.00397	0.00024	36.22354	24.01219	0.1357197	0.0777237	0.1309867	0.05326306
0.046251	0.00154	28.11497	13.34877	0.0753931	0.2435624	0.3075346	0.06397225
0.030168	0.00308	25.12113	15.20453	0.2103687	0.3697073	0.4478012	0.07809393
0.014287	0.00761	21.18645	18.45058	0.7285409	0.8183638	0.7305409	-0.08782297
0.033026	0.0318	14.97603	14.81143	0.7539663	0.8183944	0.7578746	-0.06051977
0.009458	0.01346	18.71009	20.24189	0.7430217	0.8331256	0.7421537	-0.09097189
0.003308	0.00025	35.9646	24.80372	0.7543123	0.6611578	0.7124359	0.05127809
0.000581	0.00123	29.09071	32.35452	0.3320525	0.4317602	0.3165379	-0.1152223
0.007387	0.00479	23.19637	21.31527	0.1803855	0.118645	0.1886525	0.07000744
0.00216	0.00039	34.08076	26.65604	0.6954976	0.759005	0.6747412	-0.08426373
0.013447	0.00231	26.35742	18.71386	0.69644	0.7901417	0.8543618	0.06422004
0.032082	0.04741	13.24095	14.9374	0.8634587	0.771342	0.6546454	-0.1166966
0.00357	0.00271	25.67816	24.47285	0.3828872	0.2954647	0.3611757	0.06571097
0.007297	0.00448	23.4827	21.36836	0.6827462	0.7946322	0.6908154	-0.1038167
0.012891	0.00052	32.87055	18.89712	0.7583336	0.6054469	0.6808338	0.07538689
0.006496	0.01012	19.94927	21.87382	0.643669	0.7377404	0.6280913	-0.1096491
0.000987	0.00306	25.14565	30.05574	0.555518	0.6737556	0.5525658	-0.1211898
0.037481	0.00014	38.62213	14.26188	0.5282262	0.3057179	0.2358475	-0.06987042
0.000895	1.16E-06	59.33939	30.48313	0.1636654	0.058424	0.1456782	0.08725423
0.048933	0.04007	13.97186	13.10396	0.8192911	0.7280023	0.8133452	0.08534294
0.031952	0.01409	18.51184	14.95505	0.8541498	0.7626863	0.6910034	-0.07168292
8.90E-06	0.00062	32.07307	50.50644	0.3510117	0.4386845	0.276512	-0.1621724
0.006078	0.02492	16.0353	22.16223	0.8431674	0.7532333	0.6379175	-0.1153158
0.003311	0.00335	24.74515	24.80043	0.5682209	0.6442279	0.5691451	-0.07508274
0.024995	0.00698	21.5614	16.0214	0.0763373	0.2396774	0.3330327	0.09335531
0.042299	0.00511	22.91252	13.73672	0.7415745	0.6127841	0.5418492	-0.07093496
0.038163	0.02859	15.43772	14.18361	0.8866689	0.7175414	0.5729199	-0.1446215
0.036001	0.00151	28.19671	14.43688	0.7867071	0.6434213	0.5593507	-0.0840706
0.041021	0.00345	24.61929	13.86989	0.0830078	0.5086507	0.6685668	0.1599161
0.003279	0.00087	30.60467	24.84278	0.7332202	0.8974249	0.7588558	-0.1385691
0.001145	0.00143	28.45144	29.41217	0.5985088	0.6768392	0.6120682	-0.064771
0.025034	0.00186	27.29366	16.01477	0.4401826	0.6147543	0.5216546	-0.09309968
0.007442	0.00402	23.95907	21.283	0.8187274	0.6622891	0.5237501	-0.138539
0.014225	5.69E-06	52.451	18.46949	0.1295706	0.5588508	0.6674722	0.1086214
0.000823	9.61E-07	60.17063	30.84862	0.8075517	0.9618544	0.9069012	-0.05495322
0.00041	0.00048	33.15341	33.87072	0.6347827	0.7029042	0.6117504	-0.0911538
0.035322	0.03796	14.20704	14.51956	0.8287931	0.7373832	0.8344379	0.09705474
0.021313	0.01093	19.61534	16.7135	0.8912558	0.7670918	0.6397028	-0.127389
0.002898	0.0014	28.54494	25.37937	0.1903082	0.0867178	0.1784822	0.09176446
0.03063	0.00151	28.21377	15.13859	0.6016339	0.4774335	0.5348961	0.05746259
0.008288	0.00133	28.74796	20.8156	0.1528546	0.2691517	0.3620039	0.09285223
0.005599	0.00263	25.80587	22.51859	0.8664683	0.9336852	0.8738769	-0.05980832
0.041866	0.03842	14.15443	13.78141	0.6933332	0.8012351	0.6975535	-0.1036817
0.010303	8.05E-05	40.93966	19.87018	0.1485724	0.0710349	0.1220297	0.05099476
0.033444	0.007	21.54883	14.75679	0.85756	0.6446216	0.7773486	0.132727
0.000345	0.00061	32.1343	34.61828	0.5501169	0.633539	0.5383424	-0.09519672

0.003704	6.46E-08	71.90086	24.31337	0.0892938	0.6053571	0.6909295	0.08557236
0.001856	0.00046	33.41308	27.31415	0.1165949	0.0523445	0.1024201	0.05007561
0.00562	2.13E-07	66.72076	22.50283	0.1775763	0.6825325	0.5767603	-0.1057723
0.018001	0.02015	16.95795	17.44692	0.780672	0.6408946	0.7837216	0.142827
0.006163	0.00263	25.8003	22.10211	0.6615004	0.84035	0.7282106	-0.1121394
0.044001	0.04623	13.35096	13.56534	0.6399294	0.7233808	0.6570029	-0.06637788
0.00732	0.02247	16.48455	21.3547	0.5691521	0.6631323	0.5403864	-0.1227459
0.000887	8.39E-06	50.76364	30.52266	0.6402666	0.6998316	0.6432793	-0.05655235
0.004889	0.01204	19.19197	23.10806	0.8414598	0.7901957	0.7026008	-0.08759498
0.031066	0.03045	15.16398	15.0772	0.8670455	0.809273	0.7524788	-0.05679421
0.022362	0.02548	15.93802	16.50496	0.8734508	0.7494302	0.8734802	0.12405
0.007804	0.00346	24.6112	21.07707	0.9500066	0.8943584	0.8065444	-0.08781403
0.046508	0.00243	26.14055	13.32471	0.4751757	0.6165982	0.6860234	0.06942511
0.001502	0.01461	18.35316	28.23229	0.9411998	0.8833119	0.7696538	-0.1136581
0.000715	0.00044	33.54481	31.45418	0.6961288	0.8163553	0.6973436	-0.1190117
0.046055	0.02332	16.32181	13.36724	0.206836	0.1410088	0.1924859	0.05147715
0.006848	0.01375	18.61629	21.64459	0.6289946	0.7386784	0.6188135	-0.119865
2.30E-06	0.00053	32.78257	56.37346	0.8291498	0.8929823	0.8257188	-0.06726355
0.006873	0.01779	17.49891	21.62868	0.6877034	0.8338457	0.6687376	-0.165108
0.026655	0.02431	16.14224	15.74228	0.6713245	0.7358003	0.7996405	0.06384023
0.005649	0.04932	13.06941	22.47999	0.6918387	0.7501587	0.644816	-0.1053427
0.01787	0.00968	20.13932	17.47873	0.8642508	0.5665813	0.7872792	0.2206979
0.008278	0.00707	21.50777	20.82052	0.6953877	0.760368	0.6867242	-0.07364386
0.040018	0.02054	16.8745	13.97747	0.2511823	0.164284	0.2347265	0.07044246
0.022601	0.00017	37.7423	16.45868	0.6665102	0.3645885	0.4535605	0.08897197
0.01692	0.02398	16.20218	17.71605	0.1529886	0.2150076	0.1408617	-0.07414591
0.028281	0.02196	16.58432	15.485	0.7965346	0.7087938	0.7876539	0.07886007
0.048572	0.00252	25.98847	13.13618	0.8688953	0.8188006	0.7480325	-0.07076809
0.048508	0.03949	14.03566	13.14191	0.3743007	0.2584266	0.3706061	0.1121795
0.043685	0.00851	20.70273	13.59672	0.9006464	0.7736776	0.8467276	0.07304991
0.032018	0.02489	16.03954	14.94601	0.1320212	0.2809797	0.4199182	0.1389385
0.028601	0.00011	39.74648	15.43621	0.5399184	0.7981278	0.6898426	-0.1082851
0.013282	0.01031	19.86589	18.76724	0.8987882	0.8442272	0.8981909	0.05396369
0.021788	0.01874	17.2716	16.61778	0.7855345	0.6088088	0.7755846	0.1667758
0.009966	0.00538	22.69186	20.01464	0.7159311	0.8932393	0.7020727	-0.1911665
0.025794	0.01973	17.04778	15.88477	0.838677	0.8969192	0.8412741	-0.0556451
0.049261	0.02471	16.07099	13.07497	0.6428607	0.7038794	0.6504099	-0.05346951
0.039355	0.01971	17.0541	14.04998	0.6844316	0.8275159	0.7103913	-0.1171246
0.032788	0.01525	18.16661	14.8429	0.8154557	0.7122973	0.7985144	0.0862171
0.014115	0.04824	13.16609	18.50305	0.814798	0.8714851	0.7770286	-0.09445646
0.005791	0.00536	22.70855	22.3726	0.4950424	0.5807621	0.4967479	-0.08401413
0.002823	0.0048	23.18869	25.49278	0.8963341	0.9519449	0.9008018	-0.05114306
0.000375	0.00062	32.06745	34.26216	0.5225352	0.6874344	0.5193579	-0.1680765
0.024724	0.02204	16.56699	16.06885	0.4882115	0.5933781	0.4885871	-0.1047911
0.008871	0.00527	22.77962	20.5201	0.8460932	0.9252108	0.8593944	-0.06581633
0.046192	0.03066	15.13476	13.35429	0.8865289	0.8019305	0.7102118	-0.09171871
0.025319	0.01765	17.53346	15.96549	0.7507125	0.843296	0.7604073	-0.0828887
0.010682	0.001	29.98533	19.71364	0.90121	0.7957542	0.7099018	-0.08585244
0.002153	0.00144	28.42463	26.66857	0.4210385	0.3476159	0.4172269	0.06961107
0.019084	0.00262	25.81472	17.19327	0.8303291	0.6643558	0.7744304	0.1100746
0.008668	0.00059	32.26384	20.62081	0.8647403	0.7790033	0.8440894	0.06508605
0.033039	0.0038	24.20397	14.80967	0.4447546	0.2678218	0.1792586	-0.08856326
0.028917	0.03383	14.70636	15.38843	0.9033321	0.835001	0.9101053	0.0751043
0.014327	0.00276	25.59577	18.43854	0.9442457	0.7960445	0.712669	-0.08337546



0.009275	0.00909	20.41423	20.32687	0.24672	0.1837101	0.2453364	0.06162625
0.023471	0.00012	39.21444	16.29464	0.1858987	0.5206909	0.6492692	0.1285784
0.049376	0.00702	21.53884	13.06481	0.8768324	0.6760635	0.5748248	-0.1012387
0.002681	0.00142	28.48493	25.71718	0.2252703	0.3283446	0.4226966	0.09435195
7.68E-06	3.08E-05	45.1133	51.14525	0.0843255	0.0230122	0.0848056	0.06179341
0.000875	3.17E-06	54.98312	30.58023	0.8641203	0.7027221	0.7803141	0.0775921
0.010506	0.00596	22.24509	19.78566	0.7788574	0.851578	0.7832925	-0.06828547
0.028491	0.0038	24.19934	15.45285	0.5904118	0.7494877	0.6560015	-0.0934862
0.002271	0.00428	23.69014	26.43831	0.7030833	0.7737342	0.6848864	-0.08884781
0.043481	0.04696	13.28228	13.617	0.7916932	0.7333639	0.7935826	0.06021872
0.000566	0.0001	39.95207	32.46929	0.1374541	0.0714904	0.1294359	0.05794547
0.004953	0.00136	28.6521	23.05124	0.7030504	0.7848397	0.7149414	-0.06989836
0.011759	0.00966	20.15005	19.29629	0.5220857	0.6619259	0.5270982	-0.1348277
0.00748	0.00374	24.2738	21.26079	0.838118	0.922232	0.8568234	-0.06540857
0.036833	0.00031	35.04428	14.33762	0.4810343	0.8179209	0.6836905	-0.1342304
0.000288	0.00032	34.92422	35.39883	0.7553992	0.8317335	0.7548529	-0.07688066
0.012446	0.00031	35.1479	19.04959	0.784487	0.9185016	0.8403409	-0.07816072
0.003085	0.00083	30.83401	25.10726	0.39025	0.2932614	0.3683845	0.07512309
0.011324	0.02696	15.69303	19.45997	0.6794915	0.7873895	0.6625143	-0.1248751
0.023772	0.04008	13.97126	16.23939	0.6472816	0.7023576	0.6407297	-0.06162798
0.013774	0.00044	33.55336	18.60945	0.3433135	0.2107534	0.2847619	0.07400846
0.03595	0.02895	15.38279	14.44307	0.3004255	0.2192455	0.2938489	0.07460343
0.018655	2.50E-06	56.01306	17.29213	0.7822343	0.6262506	0.6909115	0.0646609
0.013182	0.00022	36.51018	18.80022	0.8525261	0.7212809	0.6279564	-0.09332452
7.23E-06	8.52E-05	40.69593	51.41154	0.1102877	0.0394437	0.0938707	0.05442703
0.035191	0.00018	37.3947	14.53566	0.8339504	0.689756	0.6261348	-0.06362119
0.012759	0.0113	19.47109	18.94188	0.5770991	0.643741	0.5775574	-0.06618351
0.007034	0.00487	23.12197	21.52768	0.182572	0.1120789	0.1786795	0.06660061
0.004661	0.00093	30.32129	23.31559	0.7216859	0.6617983	0.7130718	0.05127352
0.005609	0.00312	25.05895	22.51126	0.7053095	0.8475639	0.7363839	-0.1111801
0.047422	0.04647	13.32836	13.24021	0.8936797	0.807894	0.8928812	0.08498716
0.000494	0.00043	33.67839	33.06347	0.677968	0.8991824	0.7028108	-0.1963716
0.023377	0.01341	18.72572	16.3122	0.8438064	0.7531141	0.8323899	0.07927576
0.005057	0.00183	27.3768	22.96129	0.8198064	0.7653361	0.7048293	-0.06050678
0.002064	0.00356	24.48391	26.85274	0.879281	0.8077492	0.8738397	0.06609049
0.019535	0.02039	16.90638	17.09181	0.3033065	0.2405812	0.3055793	0.06499807
0.000736	0.00045	33.47854	31.33227	0.854776	0.7822146	0.8491325	0.06691793
0.002706	0.0031	25.09303	25.67633	0.234962	0.1083602	0.2092555	0.1008953
0.001442	0.00014	38.64749	28.41112	0.8729417	0.7135087	0.5818969	-0.1316118
0.001811	0.00012	39.10994	27.42122	0.1632492	0.0870636	0.1453756	0.05831207
0.039252	0.00699	21.55413	14.06138	0.0867889	0.1887944	0.2859402	0.09714582
0.014505	0.00692	21.60133	18.3847	0.7104508	0.8012715	0.7254175	-0.075854
0.014596	0.00962	20.16891	18.35766	0.8680118	0.7082333	0.8460573	0.137824
0.004716	0.00454	23.43306	23.26438	0.8218401	0.9205161	0.8314435	-0.08907259
0.003101	0.00645	21.90384	25.08474	0.2926039	0.4288599	0.5457328	0.1168729
0.037557	0.03669	14.35474	14.25314	0.5736374	0.6573712	0.575946	-0.08142517
0.000174	6.38E-06	51.95482	37.59897	0.6516098	0.7447156	0.6648254	-0.07989026
0.002899	0.00183	27.38058	25.37778	0.1268181	0.0522387	0.1165859	0.06434727
0.023584	0.00365	24.37139	16.27377	0.8998237	0.7824502	0.8540877	0.07163742
0.031445	0.04058	13.91651	15.02455	0.7600725	0.8259072	0.7549519	-0.07095535
0.000138	0.0003	35.1703	38.59914	0.5974359	0.8201379	0.627448	-0.1926899
0.000457	5.65E-05	42.47667	33.39916	0.6750484	0.8306292	0.7052855	-0.1253436
0.012287	0.00785	21.05212	19.10544	0.6941802	0.8835842	0.7447706	-0.1388136
0.019616	0.02366	16.26002	17.07399	0.7732905	0.6312311	0.7685332	0.1373021

0.004056	0.00379	24.21429	23.91854	0.8055447	0.6664413	0.7834618	0.1170205
0.001788	0.00503	22.98741	27.47581	0.5670505	0.6503723	0.5485361	-0.1018363
0.048616	0.00018	37.35145	13.13217	0.8097005	0.6218829	0.5629621	-0.05892078
0.005371	0.01132	19.46274	22.69911	0.5325237	0.4315474	0.5450751	0.1135277
0.003721	0.00239	26.22178	24.29305	0.5813705	0.6799924	0.5916837	-0.08830868
0.005288	0.00306	25.14927	22.76721	0.8459955	0.9106945	0.8503519	-0.06034268
0.036257	0.00281	25.50596	14.40614	0.7916978	0.6879581	0.6145162	-0.07344193
0.029931	0.0069	21.61273	15.23881	0.828214	0.704588	0.6016942	-0.1028938
0.032958	0.00017	37.64495	14.82035	0.842173	0.7104559	0.6516272	-0.0588287
0.020148	0.00067	31.73548	16.95779	0.5007743	0.5736129	0.5126543	-0.06095862
0.024599	0.02745	15.61453	16.09076	0.8523993	0.756455	0.8565307	0.1000758
0.004292	0.00362	24.41248	23.67382	0.2462429	0.1355592	0.2471826	0.1116234
0.036362	0.01727	17.62634	14.39348	0.2195987	0.128669	0.1975737	0.06890466
0.000223	0.00044	33.57792	36.51023	0.7981991	0.7320104	0.8007756	0.06876532
0.002862	4.56E-05	43.40776	25.43258	0.3987968	0.7473516	0.612439	-0.1349126
0.0143	0.01843	17.34488	18.44661	0.5867758	0.7056547	0.5801789	-0.1254758
0.023588	0.01194	19.22888	16.27305	0.8332914	0.5941247	0.8068153	0.2126906
0.027468	0.03196	14.95412	15.61171	0.7502293	0.8059075	0.7456042	-0.06030339
0.001562	0.00112	29.49628	28.06361	0.5233489	0.4325508	0.5152805	0.08272972
0.008457	0.00097	30.13061	20.72791	0.8203313	0.6797504	0.5713397	-0.1084108
0.027132	0.01902	17.20857	15.66517	0.2381757	0.1569459	0.229756	0.07281011
0.02687	0.04389	13.57609	15.70735	0.8761824	0.8096823	0.8864466	0.07676435
0.018285	0.02985	15.25019	17.37915	0.5746514	0.4633115	0.5779083	0.1145968
0.02136	0.00095	30.20651	16.70406	0.1601771	0.3241689	0.2440424	-0.0801265
0.01354	0.00388	24.10662	18.68393	0.6760603	0.7576664	0.6890733	-0.06859314
0.003868	0.00062	32.0981	24.12484	0.7495623	0.5247902	0.6830981	0.1583079
0.039369	0.00385	24.14336	14.0485	0.8556202	0.7533536	0.6937292	-0.05962444
0.00063	0.00026	35.79818	32.0042	0.643692	0.7557306	0.6320413	-0.1236894
0.048009	0.03861	14.13244	13.18679	0.8667482	0.8020437	0.7243972	-0.0776465
0.02246	0.00229	26.3925	16.48597	0.8510119	0.7231314	0.6405641	-0.08256733
0.008713	0.00243	26.14065	20.59831	0.7723381	0.8617491	0.7896613	-0.07208777
0.044562	0.02268	16.44393	13.51035	0.6547411	0.7706465	0.8280317	0.05738522
0.032266	0.02076	16.82779	14.91253	0.7013974	0.7944368	0.7139325	-0.08050431
0.029862	0.01999	16.99142	15.2488	0.6086751	0.5523924	0.6157939	0.06340158
0.020992	0.02441	16.12382	16.77956	0.9106779	0.7655635	0.6292812	-0.1362824
0.030299	0.01533	18.14417	15.18572	0.2976794	0.1348535	0.2597146	0.1248611
0.045977	0.00178	27.4875	13.37462	0.8502004	0.6830456	0.6001284	-0.08291718
0.027405	1.17E-05	49.30376	15.62171	0.7397605	0.8770512	0.8210068	-0.05604433
0.015132	0.00735	21.33924	18.20091	0.8661311	0.7555415	0.8428499	0.08730835
0.027366	0.0124	19.06712	15.62785	0.7810236	0.5116784	0.7244104	0.212732
0.005141	0.00084	30.74054	22.88961	0.8689319	0.7746251	0.8410619	0.06643678
0.017614	0.00509	22.92878	17.54132	0.7541094	0.8256756	0.7724992	-0.05317642
7.23E-06	6.70E-06	51.74224	51.40897	0.459695	0.6006585	0.4635421	-0.1371164
0.01055	8.28E-05	40.81734	19.76761	0.1245816	0.2540597	0.3656993	0.1116396
0.049005	0.00375	24.25661	13.09756	0.8167796	0.7582359	0.6951503	-0.06308556
0.039872	0.01249	19.03352	13.99329	0.8726288	0.6832135	0.8069123	0.1236989
3.28E-05	7.97E-05	40.98412	44.84476	0.442133	0.2731819	0.4431353	0.1699533
0.047169	0.01399	18.54073	13.2634	0.0517064	0.3426416	0.513828	0.1711865
0.003443	0.01766	17.53016	24.63045	0.682318	0.7664342	0.6515253	-0.1149089
0.015198	0.00588	22.30415	18.18205	0.8429221	0.6782675	0.8047141	0.1264466
0.02275	0.04852	13.14057	16.43015	0.9300597	0.7696939	0.5755937	-0.1941002
0.032903	0.00554	22.56548	14.8276	0.032836	0.402765	0.5789009	0.1761359
0.035682	0.032	14.94817	14.4755	0.303937	0.1589821	0.2953402	0.1363581
0.001988	0.00192	27.17002	27.01503	0.24796	0.1591453	0.2452529	0.08610766

0.040694	8.23E-05	40.84557	13.90471	0.8512738	0.7350955	0.6505499	-0.08454558
0.003356	0.00047	33.32519	24.74239	0.6766468	0.7455197	0.693828	-0.05169165
0.00208	0.00012	39.23153	26.82041	0.0766203	0.4509977	0.6667935	0.2157958
0.000334	0.00045	33.44669	34.76608	0.7395568	0.80335	0.6994764	-0.1038735
0.033781	0.01213	19.15966	14.71325	0.0549174	0.125903	0.1978267	0.07192365
0.041937	0.02233	16.5107	13.77398	0.8089155	0.6083174	0.7646624	0.156345
7.05E-05	9.26E-06	50.33186	41.51871	0.2309413	0.1203578	0.2255893	0.1052315
0.002132	0.0024	26.20247	26.71204	0.5920693	0.7027359	0.5936869	-0.1090489
0.011664	0.00429	23.6733	19.33167	0.1540891	0.0834378	0.1420148	0.05857702
0.022325	0.00242	26.15982	16.51207	0.831089	0.6658058	0.7665181	0.1007122
0.016801	0.00054	32.64508	17.74669	0.7967659	0.6686107	0.7254223	0.05681164
0.01536	0.00078	31.10626	18.13606	0.8114347	0.6465814	0.5630036	-0.08357774
0.034191	0.0043	23.66155	14.66091	0.1144348	0.22688	0.3502583	0.1233783
0.004274	0.0007	31.57497	23.69175	0.6575078	0.8648408	0.7396325	-0.1252083
0.010764	0.0058	22.36767	19.68037	0.8280556	0.678698	0.8015398	0.1228418
0.000314	7.96E-06	50.98946	35.0238	0.569182	0.6592109	0.5608035	-0.09840737
0.013921	0.0149	18.26887	18.56343	0.7801499	0.6717178	0.7960977	0.1243799
0.032057	0.03669	14.35485	14.94076	0.7812855	0.7299902	0.7834355	0.05344528
0.01853	0.01671	17.77103	17.32132	0.1338386	0.2115496	0.2971552	0.08560566
0.000891	0.00126	29.00386	30.50102	0.104899	0.0353997	0.1034347	0.06803499
0.015176	0.02725	15.64661	18.18842	0.7688132	0.8532652	0.755679	-0.09758628
0.03591	0.04154	13.81528	14.4478	0.5270964	0.5983309	0.5264372	-0.07189371
0.018713	0.00205	26.89236	17.27849	0.9098884	0.7532401	0.6467419	-0.1064982
0.039909	0.02483	16.04969	13.98932	0.0713858	0.1924018	0.0876635	-0.1047384
0.000655	0.00024	36.23179	31.83643	0.2725961	0.2027204	0.260846	0.0581256
0.03878	0.00038	34.22362	14.11389	0.775656	0.5560957	0.635289	0.07919323
0.000762	0.00015	38.34653	31.18185	0.6740322	0.7646005	0.6688719	-0.09572859
0.03466	0.02951	15.30062	14.60177	0.8835089	0.8222762	0.762407	-0.05986925
0.005328	0.00337	24.72156	22.73467	0.1721504	0.0838846	0.1557892	0.07190465
0.022448	0.02659	15.75297	16.48814	0.6117201	0.6975422	0.6111419	-0.08640031
0.038426	0.0394	14.04487	14.15373	0.899828	0.8341524	0.8988299	0.06467751
0.000425	0.00668	21.75509	33.71101	0.7575158	0.8165488	0.7014421	-0.1151066
0.01183	0.03475	14.59006	19.27	0.9237059	0.8731114	0.7746595	-0.09845202
0.010246	0.00033	34.8017	19.89465	0.8296882	0.7205244	0.7792126	0.05868823
0.013566	0.02377	16.24061	18.67558	0.583927	0.503328	0.6389543	0.1356263
0.000412	0.00023	36.46006	33.84903	0.8422085	0.9103299	0.8449203	-0.0654095
0.012047	0.00023	36.29396	19.19122	0.0384585	0.107766	0.212678	0.1049119
0.043729	0.01874	17.27168	13.59235	0.8948292	0.8051064	0.8739636	0.06885722
0.009639	0.0078	21.08108	20.1598	0.7833406	0.6810613	0.7761132	0.09505188
0.020742	0.02394	16.20913	16.8315	0.7653288	0.6176874	0.7726988	0.1550114
0.035123	0.01603	17.94972	14.54414	0.7719221	0.6319433	0.7472939	0.1153505
0.010536	0.00426	23.70468	19.77328	0.5507218	0.70736	0.5768122	-0.1305478
0.013072	0.00386	24.13639	18.83674	0.7594725	0.5534697	0.6896376	0.1361679
0.0232	0.0116	19.35643	16.34509	0.8421553	0.7137967	0.8125547	0.09875797
0.011032	0.022	16.57653	19.57362	0.6955674	0.7642133	0.679309	-0.08490423
1.24E-05	0.00029	35.34359	49.07901	0.6692542	0.7510099	0.620946	-0.1300639
0.003645	0.00665	21.77228	24.38315	0.3770524	0.2948645	0.3794911	0.08462661
0.047628	2.88E-05	45.40969	13.22134	0.8776432	0.8101403	0.7059694	-0.1041708
0.000191	0.00023	36.35445	37.19767	0.8471891	0.9213082	0.8576088	-0.06369944
0.021325	0.00199	27.01826	16.7111	0.8708338	0.7686854	0.826799	0.05811362
0.021043	0.01171	19.31339	16.76891	0.6726674	0.7240691	0.6536223	-0.07044677
0.037536	0.03579	14.46264	14.25553	0.2783828	0.2157579	0.2739986	0.05824076
0.008456	0.01667	17.78049	20.72834	0.8854539	0.793273	0.8951809	0.1019079
0.023083	0.00568	22.45891	16.36708	0.2474956	0.3953676	0.4876884	0.09232073

0.044862	0.00669	21.74602	13.48126	0.8606201	0.7412813	0.8074095	0.06612815
0.005098	0.03801	14.20139	22.92608	0.7114376	0.7879084	0.6571389	-0.1307695
0.038713	0.03124	15.05331	14.12147	0.8203637	0.6933097	0.5818321	-0.1114776
5.43E-05	5.92E-05	42.276	42.65103	0.6838197	0.8112202	0.689805	-0.1214153
0.003038	0.0011	29.58965	25.17348	0.8373603	0.7389338	0.7938406	0.05490681
5.83E-06	3.24E-06	54.88964	52.34083	0.5745452	0.7173468	0.5890977	-0.1282491
0.01908	0.03937	14.04799	17.19429	0.8234584	0.9083501	0.811124	-0.097226
0.002285	0.00065	31.90145	26.41046	0.9157581	0.8355437	0.8942458	0.05870213
0.025564	0.02648	15.77114	15.9238	0.9019996	0.8456009	0.8997996	0.05419869
0.016857	0.01952	17.09609	17.73213	0.5097446	0.5904664	0.5091473	-0.08131916
0.013344	0.0049	23.10083	18.74715	0.6222601	0.7961461	0.6727071	-0.1234389
0.003294	0.00301	25.20958	24.82296	0.7980357	0.8802666	0.7997792	-0.08048745
0.003359	0.00256	25.90952	24.7379	0.5429543	0.6020972	0.5410901	-0.06100707
0.021563	0.02041	16.9024	16.66283	0.8370504	0.9060364	0.8444566	-0.06157986
0.000476	7.41E-05	41.30238	33.22538	0.7573026	0.8521395	0.7989413	-0.05319827
0.000881	0.00021	36.80893	30.54885	0.192932	0.1229579	0.181741	0.05878307
0.002212	0.00254	25.94498	26.55284	0.842644	0.7825122	0.8441114	0.06159922
0.003076	0.01128	19.47761	25.12028	0.6987773	0.8145437	0.6682637	-0.14628
0.037422	0.00442	23.54112	14.26877	0.8743739	0.7317115	0.813855	0.08214346
0.023408	0.01487	18.27705	16.30628	0.8232065	0.9040927	0.8327115	-0.07138119
0.019735	0.00571	22.43179	17.04754	0.7752437	0.5366486	0.7070274	0.1703788
0.03431	0.02098	16.78167	14.64582	0.4519384	0.3156213	0.4260635	0.1104421
0.019928	0.00104	29.82362	17.00534	0.815262	0.6691933	0.7496238	0.08043051
0.003339	0.00179	27.47382	24.76335	0.1378511	0.0541933	0.1199272	0.06573391
0.029797	0.00123	29.11244	15.25821	0.3474292	0.2337741	0.296722	0.06294791
0.035887	0.01103	19.57582	14.45061	0.8191586	0.7342879	0.7934571	0.05916921
0.028879	0.02796	15.53492	15.39412	0.1921944	0.1321187	0.1919445	0.05982585
0.046513	0.02431	16.14205	13.32424	0.9212773	0.8214604	0.8996181	0.07815772
0.010554	0.00378	24.22903	19.76576	0.7459117	0.8241765	0.760914	-0.06326248
0.030903	0.02961	15.28548	15.10001	0.4993495	0.333449	0.4980973	0.1646482
0.028851	0.04153	13.8166	15.39846	0.1839079	0.1095738	0.1741906	0.06461678
0.045579	0.03198	14.95133	13.41238	0.9054561	0.8218786	0.8991109	0.07723226
0.04244	0.04445	13.52108	13.72223	0.7515448	0.6242198	0.7549164	0.1306966
0.007869	0.00516	22.87742	21.04058	0.8338457	0.7373245	0.8207823	0.08345785
0.027117	0.00319	24.96538	15.66764	0.7462646	0.5683135	0.44822	-0.1200936
0.012138	0.00637	21.95617	19.15865	0.7454904	0.5796043	0.7251628	0.1455585
0.009707	0.00727	21.38647	20.12901	0.883176	0.7386898	0.6212577	-0.1174321
0.001338	0.0017	27.69044	28.73452	0.1586002	0.0714322	0.1524301	0.080998
0.002872	0.04115	13.85655	25.41743	0.6765004	0.5736546	0.6606016	0.08694701
0.014312	0.03172	14.98658	18.44288	0.6105028	0.6710947	0.6011232	-0.06997153
0.001792	0.00069	31.62218	27.46713	0.7740193	0.8650464	0.772289	-0.09275743
0.024281	0.02467	16.07877	16.14738	0.2788297	0.2018793	0.27913	0.07725073
0.04406	0.02851	15.45077	13.55953	0.8553972	0.7608733	0.6826804	-0.07819291
0.00354	0.00262	25.82475	24.50937	0.5149708	0.6041152	0.522094	-0.08202131
0.009812	0.01983	17.0273	20.08225	0.5218439	0.6032928	0.5140315	-0.08926125
0.01908	0.02745	15.61381	17.19424	0.8084112	0.9017972	0.8142481	-0.08754908
0.001153	0.00126	29.00809	29.38008	0.6737928	0.7900848	0.696684	-0.09340077
0.004838	0.02111	16.75521	23.15323	0.7784825	0.6879659	0.5566157	-0.1313503
0.019233	0.02579	15.88541	17.15943	0.4083542	0.5211182	0.6476697	0.1265515
0.003986	0.00115	29.38142	23.99453	0.8958323	0.8060879	0.8790898	0.07300193
0.028215	0.01859	17.30789	15.49523	0.8958491	0.7749025	0.6697885	-0.105114
0.038741	0.0285	15.45098	14.11834	0.8294123	0.9017903	0.8363067	-0.06548362
0.042614	0.04875	13.12007	13.70448	0.5384288	0.5991331	0.5300736	-0.06905956
0.016775	0.00181	27.42949	17.75327	0.2169803	0.4761479	0.6086093	0.1324615

0.020208	0.02436	16.13399	16.94486	0.8940149	0.9516196	0.8979566	-0.05366307
0.012455	0.00943	20.25608	19.04668	0.7520464	0.8196857	0.7561339	-0.0635519
0.003094	4.06E-07	63.91496	25.09448	0.6931919	0.8361916	0.7014999	-0.1346917
0.00014	0.00024	36.12989	38.55025	0.6804795	0.7581666	0.6720654	-0.08610126
0.0266	0.00311	25.0738	15.75124	0.41782	0.283729	0.2054946	-0.07823442
0.032511	0.00268	25.72042	14.87973	0.8335062	0.6794541	0.5839943	-0.0954598
0.009392	0.00941	20.26486	20.27243	0.6732642	0.7488982	0.6727551	-0.07614306
0.004618	0.00051	32.95686	23.3552	0.766587	0.6373858	0.7120659	0.07468013
0.004387	0.00022	36.63488	23.57872	0.1964899	0.1072691	0.1958515	0.08858235
0.018956	0.0305	15.1569	17.22255	0.8125702	0.7476242	0.6677105	-0.07991369
0.015245	0.011	19.58454	18.16882	0.8940878	0.8115779	0.8811397	0.06956177
0.001307	0.00257	25.90559	28.83691	0.8109669	0.886946	0.8076949	-0.07925108
0.000262	0.0012	29.21865	35.8133	0.6346475	0.7538993	0.6410294	-0.1128699
6.74E-06	6.39E-06	51.94833	51.71407	0.2107561	0.0999369	0.2185167	0.1185798
0.006447	0.00901	20.45145	21.90632	0.6099725	0.6687171	0.6042715	-0.06444553
0.002169	0.00064	31.90479	26.63809	0.8352142	0.700082	0.8001749	0.1000929
0.001331	0.00148	28.29648	28.75874	0.5470176	0.6241731	0.5527015	-0.07147157
0.037703	0.01082	19.65735	14.23627	0.8144097	0.5653607	0.724668	0.1593073
0.003654	0.00572	22.42885	24.37198	0.8849661	0.8002605	0.8943018	0.09404134
0.01077	0.00081	30.92407	19.678	0.8187602	0.6438113	0.7580703	0.114259
0.002959	1.35E-05	48.68695	25.2884	0.2371662	0.4042508	0.5101259	0.1058751
0.016591	0.03258	14.871	17.80135	0.0895954	0.2018074	0.3252219	0.1234145
0.020954	0.00102	29.92379	16.78737	0.0415501	0.3600357	0.4817138	0.1216781
0.020861	0.00163	27.87521	16.80663	0.7990113	0.3506449	0.5457748	0.1951299
0.049541	0.01877	17.26629	13.05037	0.7882446	0.6076291	0.7393112	0.1316821
0.002968	0.02912	15.35872	25.27566	0.6579921	0.7234693	0.6135265	-0.1099428
0.007493	0.00983	20.07396	21.25333	0.8869565	0.7039258	0.5358893	-0.1680366
0.003148	0.00116	29.3652	25.01977	0.8079175	0.8650372	0.8111882	-0.05384907
0.038096	0.04035	13.94115	14.19118	0.6467375	0.7751871	0.6412187	-0.1339684
0.012748	0.02416	16.16841	18.94575	0.2335403	0.3424102	0.4536361	0.1112259
0.003507	0.0009	30.44222	24.55079	0.2859344	0.1583636	0.2510903	0.09272675
0.000771	0.00262	25.81828	31.12842	0.6961722	0.8023056	0.6815902	-0.1207154
0.001675	0.00381	24.1895	27.76045	0.458824	0.6428444	0.4787982	-0.1640462
0.003277	0.00174	27.58272	24.84497	0.9754287	0.8834538	0.7032468	-0.180207
0.004196	0.00264	25.776	23.77202	0.1488578	0.0794872	0.1353911	0.05590389
0.049026	0.03466	14.60151	13.09572	0.5558785	0.6148701	0.560463	-0.05440707
0.001016	7.13E-05	41.46798	29.93068	0.7021174	0.5641419	0.64935	0.08520812
0.042643	0.01312	18.82115	13.70154	0.9089545	0.7723361	0.8590595	0.08672345
0.007373	0.00483	23.15656	21.32351	0.9155135	0.7955967	0.7039572	-0.09163949
0.043287	0.00679	21.68345	13.63645	0.8899051	0.7458351	0.825353	0.07951797
0.022209	0.02433	16.13787	16.53463	0.2272921	0.3469049	0.2245013	-0.1224036
0.004841	0.01269	18.96548	23.15038	0.7881958	0.8531381	0.7674665	-0.08567166
0.014416	0.02965	15.27973	18.41147	0.8344967	0.7440636	0.8602496	0.116186
0.002743	0.00328	24.83848	25.6172	0.6190732	0.6777086	0.6173607	-0.0603479
0.019385	0.01555	18.08376	17.12541	0.9205092	0.8194683	0.9050573	0.08558907
0.001166	0.00082	30.84505	29.33157	0.955363	0.7308654	0.60347	-0.1273954
0.018744	0.01206	19.18698	17.27144	0.5062413	0.5964518	0.5287496	-0.06770223
0.031504	0.01595	17.97347	15.01634	0.8328056	0.6824951	0.5682403	-0.1142548
0.003951	0.00998	20.00944	24.03324	0.8752339	0.7928383	0.6985173	-0.094321
0.000871	0.006	22.22148	30.59969	0.4529578	0.5185965	0.4187425	-0.09985405
0.011424	0.02292	16.39861	19.42201	0.5570856	0.6655203	0.5224462	-0.1430741
0.037714	0.00446	23.5101	14.23498	0.7802792	0.7090553	0.6571529	-0.05190242
0.001886	0.00302	25.19728	27.2452	0.3342619	0.2235363	0.3315663	0.10803
0.037366	0.03937	14.04802	14.27521	0.5189555	0.6340662	0.5204129	-0.1136533

0.02336	0.00833	20.79163	16.31527	0.3053807	0.4898251	0.5841025	0.09427743
0.045163	0.00157	28.03366	13.45221	0.052254	0.5125849	0.6514545	0.1388696
0.031739	0.03531	14.52104	14.98411	0.8257585	0.7313046	0.8344967	0.1031921
0.005736	0.00331	24.79789	22.41377	0.824254	0.7411539	0.6396916	-0.1014623
0.002883	0.00632	21.99064	25.40204	0.8335226	0.9128336	0.8255478	-0.08728586
0.029563	0.0029	25.37306	15.29252	0.7850843	0.6249554	0.7195345	0.09457909
0.042485	0.01203	19.19864	13.71768	0.8777834	0.7785349	0.8397753	0.06124039
0.001075	0.00046	33.39069	29.68684	0.1130067	0.0561395	0.1084128	0.05227324
0.029032	0.03599	14.43798	15.37129	0.819404	0.8714402	0.8182396	-0.05320065
0.033853	0.04848	13.14414	14.70404	0.6500152	0.598107	0.6568779	0.05877087
0.014182	0.01057	19.75722	18.48255	0.9013009	0.8426856	0.8954827	0.05279711
0.000319	7.05E-05	41.51938	34.96556	0.1347976	0.0671622	0.1230207	0.0558585
0.015268	0.002	26.9941	18.16206	0.6370869	0.5475702	0.6076689	0.06009869
0.002021	0.03465	14.60293	26.94458	0.5750284	0.6434153	0.5161654	-0.1272498
0.039531	0.01804	17.43823	14.03067	0.8363579	0.7629951	0.821753	0.05875783
0.009683	0.01835	17.36248	20.13991	0.7320637	0.8322947	0.7238309	-0.1084638
0.02214	0.00079	31.01987	16.54832	0.7617259	0.5289479	0.6454033	0.1164553
0.020302	0.0008	30.94353	16.92454	0.8726096	0.7669342	0.8278679	0.06093372
0.001151	0.00173	27.61868	29.39026	0.3606425	0.4512666	0.3643096	-0.08695704
0.038795	0.02321	16.34334	14.11219	0.5344122	0.7051452	0.5352792	-0.1698661
0.027453	0.02528	15.97243	15.6141	0.8917961	0.8035786	0.8982311	0.09465244
0.023988	0.00627	22.02634	16.20004	0.879155	0.8060309	0.856152	0.0501211
0.012879	0.01226	19.11406	18.90117	0.5129529	0.6168413	0.50922	-0.1076213
2.09E-05	0.00035	34.5318	46.79716	0.8318165	0.7579305	0.6019752	-0.1559553
0.001905	0.00085	30.71867	27.20129	0.6468415	0.7386882	0.6446354	-0.09405284
0.001669	0.00563	22.49844	27.77548	0.7262229	0.7847505	0.6737861	-0.1109643
0.000465	0.0026	25.84762	33.32141	0.1991323	0.0816398	0.2022783	0.1206385
0.000448	7.42E-05	41.29842	33.48309	0.8284336	0.9067593	0.8448605	-0.06189875
0.002498	0.01775	17.50792	26.02341	0.8258525	0.8771572	0.8026246	-0.07453253
0.023448	0.03521	14.53387	16.29902	0.1969043	0.3084323	0.1992802	-0.1091521
0.002419	0.04383	13.58238	26.16362	0.6988992	0.6040587	0.6669093	0.06285058
0.042637	0.03818	14.18151	13.70217	0.8959383	0.828906	0.8958583	0.06695231
0.004165	0.00324	24.89165	23.80335	0.7465345	0.6723923	0.7431701	0.07077777
7.09E-06	7.27E-06	51.38652	51.49161	0.1543173	0.093506	0.1564933	0.0629873
0.010021	0.00395	24.0311	19.99098	0.8807458	0.772339	0.6649316	-0.1074075
0.000848	0.00236	26.27735	30.71365	0.8554799	0.6938843	0.5411966	-0.1526877
0.029532	0.00402	23.96065	15.29702	0.7544336	0.5644061	0.6709794	0.1065733
0.016145	0.0128	18.92791	17.91959	0.868589	0.8105083	0.7252641	-0.08524414
0.047171	0.04088	13.8853	13.26325	0.9340446	0.8772693	0.8123238	-0.06494551
0.024884	0.02342	16.30415	16.04084	0.6604633	0.8196026	0.6509152	-0.1686874
0.001013	0.00132	28.80544	29.94294	0.8442076	0.7905391	0.8488681	0.05832897
0.024824	0.00158	28.00377	16.05122	0.7497653	0.8865128	0.8124611	-0.07405178
0.007838	0.00138	28.59277	21.05804	0.8697771	0.7849595	0.8454676	0.06050811
0.026696	0.00317	24.99559	15.73555	0.1025037	0.2354405	0.3512609	0.1158204
1.56E-06	1.21E-07	69.18403	58.08026	0.4591829	0.2511992	0.4412675	0.1900683
0.044128	0.01145	19.41076	13.55287	0.8638278	0.6420843	0.778018	0.1359337
0.022222	0.0007	31.56151	16.53212	0.0960605	0.5715427	0.7356187	0.164076
0.017872	0.01387	18.57987	17.47818	0.7854277	0.871052	0.7884264	-0.08262553
0.00071	0.0022	26.58188	31.48856	0.8743834	0.7401706	0.8706601	0.1304895
0.042701	0.00674	21.71334	13.69563	0.2742857	0.1590676	0.2243592	0.06529165
0.037116	0.02828	15.48529	14.30439	0.834317	0.7131708	0.8241881	0.1110173
0.006624	0.00221	26.55227	21.7889	0.1394843	0.4078291	0.5512933	0.1434642
0.036661	6.32E-06	51.99096	14.35801	0.2140802	0.6771314	0.7718765	0.09474507
0.004166	0.01541	18.12219	23.80316	0.6261843	0.7024477	0.6140054	-0.08844225

0.038222	0.01305	18.8442	14.17683	0.9272501	0.7662476	0.6386847	-0.1275629
0.006796	0.00135	28.70988	21.67772	0.7173912	0.6185728	0.5225387	-0.09603406
0.003409	0.00432	23.64078	24.6732	0.6794388	0.754566	0.6926133	-0.06195274
0.014585	0.01542	18.11999	18.361	0.1735114	0.3281333	0.4822266	0.1540932
0.047072	0.02984	15.25264	13.27234	0.8776202	0.7032148	0.8495209	0.1463061
0.012785	0.00012	39.29836	18.93309	0.8775847	0.7116566	0.771864	0.06020747
0.000192	0.0028	25.52619	37.15845	0.5333812	0.6142316	0.505917	-0.1083147
0.00017	0.00058	32.37395	37.69309	0.8344384	0.7686263	0.8311592	0.06253295
2.24E-07	1.81E-05	47.42753	66.49752	0.8276748	0.9067305	0.8264537	-0.08027683
0.00079	0.00113	29.46577	31.02128	0.5322906	0.5937639	0.5261319	-0.06763206
0.009187	0.01542	18.11931	20.36811	0.51197	0.6815261	0.4557239	-0.2258023
0.004705	0.00183	27.37614	23.27475	0.7964993	0.7239593	0.7962826	0.0723233
0.009326	0.01087	19.63884	20.30296	0.8018167	0.7431969	0.8037784	0.06058154
0.035243	0.03284	14.83585	14.5293	0.6434925	0.7099543	0.6464486	-0.06350574
0.007469	0.00693	21.59475	21.26756	0.8928854	0.8097074	0.7323968	-0.07731051
0.012106	0.01329	18.76421	19.16998	0.8700263	0.7318946	0.8619194	0.1300248
0.035994	0.02508	16.00664	14.43766	0.8890234	0.7565836	0.6354231	-0.1211606
0.019944	0.01773	17.51351	17.00184	0.8681667	0.722473	0.5990889	-0.1233841
0.045248	0.00109	29.62254	13.444	0.8801163	0.8250232	0.7669973	-0.05802588
0.038638	0.02701	15.68411	14.1299	0.8966095	0.81863	0.8904834	0.07185347
0.006425	0.00752	21.23894	21.92141	0.7519264	0.6841413	0.7418841	0.05774277
3.12E-05	0.00024	36.19011	45.06044	0.4181256	0.5366085	0.3887481	-0.1478604
0.047425	0.00261	25.84102	13.23997	0.8060644	0.6713727	0.6071802	-0.06419248
0.023544	0.01425	18.46305	16.28121	0.3747444	0.2510347	0.1783015	-0.07273327
0.001173	3.76E-05	44.25243	29.30713	0.4586362	0.6044114	0.491462	-0.1129493
7.49E-05	7.93E-05	41.00787	41.25437	0.7609333	0.9243128	0.7873102	-0.1370025
0.002587	4.60E-05	43.37409	25.87217	0.7476841	0.8658808	0.8153087	-0.05057215
8.84E-05	2.96E-05	45.29367	40.53587	0.5289993	0.7061141	0.5488734	-0.1572407
7.40E-05	3.02E-05	45.1959	41.30756	0.2329251	0.136792	0.2267831	0.08999102
0.001987	0.0016	27.97127	27.01779	0.8060365	0.8847929	0.8021754	-0.08261748
0.039401	0.01501	18.23502	14.04491	0.7406079	0.8268961	0.7609563	-0.06593978
0.005322	0.00028	35.54109	22.73943	0.8394809	0.6546224	0.5473859	-0.1072365
0.012974	0.01298	18.86627	18.86933	0.7442663	0.832432	0.7483572	-0.08407476
0.026165	0.01171	19.31288	15.82273	0.8198026	0.8867821	0.8317945	-0.05498752
0.013964	0.02511	16.00085	18.55	0.0691449	0.1744036	0.0550408	-0.1193628
0.030009	0.01218	19.14355	15.22742	0.7979903	0.6672872	0.756923	0.08963572
0.008067	1.12E-06	59.51923	20.93274	0.8910449	0.7011665	0.6404971	-0.06066938
0.044316	0.0316	15.00327	13.53437	0.2894714	0.2336054	0.2842126	0.05060726
0.003189	7.73E-06	51.11766	24.96319	0.8868365	0.7051676	0.7764305	0.0712629
0.048521	0.02776	15.56591	13.14074	0.8377721	0.6814167	0.8118048	0.1303881
0.041037	0.00034	34.73284	13.86821	0.6699468	0.4666999	0.3910618	-0.07563816
0.030843	0.00027	35.66355	15.10846	0.7930685	0.6024984	0.5092609	-0.09323741
0.006584	0.00051	32.96631	21.81489	0.7668526	0.6886918	0.7394669	0.05077508
0.016845	0.00046	33.39191	17.73527	0.8628849	0.7914953	0.7074278	-0.08406752
0.016068	0.00507	22.95102	17.94052	0.8928252	0.7996511	0.8633783	0.06372716
0.014156	0.04889	13.10782	18.49051	0.854623	0.7994316	0.7082377	-0.09119387
0.034872	0.0168	17.74718	14.57526	0.0856257	0.2211489	0.1118986	-0.1092503
0.035613	6.16E-05	42.10241	14.48391	0.7634727	0.5767381	0.6550781	0.07833997
0.005642	0.00051	32.93861	22.486	0.7668573	0.8471401	0.7713011	-0.07583896
0.020096	0.01683	17.73867	16.96883	0.7807071	0.8379364	0.7685357	-0.06940069
0.034304	0.01143	19.41778	14.6466	0.8344412	0.6224276	0.7615029	0.1390753
0.02063	0.01332	18.75539	16.85501	0.7022246	0.7770065	0.7162522	-0.06075427
0.032456	0.0401	13.96814	14.88711	0.7843515	0.8459319	0.7805266	-0.06540531
0.001828	7.16E-05	41.44814	27.38028	0.8196058	0.7200827	0.781212	0.06112928

0.001565	0.0029	25.37134	28.05379	0.201499	0.1264439	0.2107851	0.08434121
0.050014	0.00544	22.64639	13.00907	0.8239376	0.6736987	0.6027495	-0.07094921
0.000139	2.81E-08	75.51496	38.56037	0.2684268	0.1344053	0.2380556	0.1036503
0.000701	0.00042	33.7765	31.5422	0.7997724	0.901333	0.8178487	-0.0834843
0.017637	0.04028	13.94951	17.53577	0.5621763	0.6173568	0.5489886	-0.06836816
0.008725	0.01848	17.33188	20.59254	0.7174945	0.8359467	0.6984587	-0.1374881
0.000367	2.05E-05	46.87771	34.35814	0.9158323	0.7912322	0.8635834	0.07235119
0.01076	0.00472	23.25857	19.68172	0.8501862	0.6539761	0.8155475	0.1615714
0.034152	0.04747	13.23564	14.66583	0.15446	0.2563205	0.1464072	-0.1099133
0.001755	0.0003	35.26176	27.55684	0.5946619	0.6706063	0.6175116	-0.05309469
0.000844	0.00032	35.01479	30.73491	0.1580523	0.0727822	0.1428763	0.07009407
0.019983	0.00663	21.78288	16.99336	0.8235419	0.7592833	0.8110049	0.0517216
0.035415	0.01015	19.93431	14.50814	0.6901544	0.5575397	0.4629498	-0.09458996
0.045261	0.00047	33.28878	13.44279	0.384136	0.5341861	0.6079207	0.07373455
0.003593	0.00425	23.71601	24.44532	0.5027074	0.5809659	0.5084905	-0.07247537
0.038818	0.00645	21.90446	14.10969	0.6752235	0.8302878	0.6841364	-0.1461514
0.014406	0.00544	22.64398	18.41458	0.9120074	0.8186889	0.894945	0.07625602
0.001272	0.037	14.31802	28.95432	0.8067185	0.8598264	0.7764545	-0.08337187
0.022965	6.61E-06	51.79509	16.38931	0.1231785	0.2889722	0.3962131	0.1072409
0.002091	0.00521	22.82933	26.79661	0.8514696	0.9060282	0.8357411	-0.07028705
0.027444	0.00156	28.05888	15.61554	0.8001885	0.6322453	0.7242333	0.09198802
0.00253	0.00073	31.34015	25.9683	0.081391	0.1552374	0.227734	0.07249666
0.009282	0.00328	24.83481	20.32338	0.8619054	0.93563	0.878344	-0.05728599
0.008029	0.02667	15.74031	20.95325	0.7843058	0.8374646	0.7670454	-0.0704192
0.0062	0.01104	19.56853	22.07639	0.7850134	0.6952978	0.7954885	0.1001907
0.027767	0.01458	18.36097	15.56464	0.8929305	0.7891437	0.878021	0.08887731
0.014373	0.0007	31.55801	18.42439	0.199203	0.5047189	0.619204	0.1144851
0.011896	0.0051	22.92779	19.24617	0.7371097	0.5870371	0.7014182	0.1143812
0.001797	0.00409	23.88324	27.45436	0.6090084	0.4917679	0.6665091	0.1747411
0.026933	7.03E-07	61.53284	15.6972	0.0585845	0.2280362	0.1745889	-0.0534473
0.006711	0.00146	28.36389	21.73202	0.8612977	0.9371765	0.8783048	-0.05887172
0.007721	0.00283	25.47767	21.12335	0.1824139	0.1180247	0.1724446	0.05441987
0.00958	0.02248	16.48113	20.18633	0.4585654	0.5759031	0.4235271	-0.152376
0.003327	3.49E-05	44.571	24.78001	0.7186329	0.5954841	0.6825377	0.08705364
0.036663	0.01381	18.59768	14.35768	0.8776798	0.7749034	0.8464262	0.07152279
0.006796	0.00196	27.07969	21.67728	0.8678063	0.9264275	0.873483	-0.05294453
0.007994	3.12E-05	45.06109	20.97231	0.9037751	0.8159081	0.7606227	-0.05528538
0.000166	7.35E-06	51.33611	37.8102	0.6856249	0.8209121	0.7118251	-0.1090871
0.031205	0.02243	16.49249	15.05772	0.4934078	0.6397794	0.5032943	-0.1364851
0.019905	0.00816	20.88561	17.01046	0.7736516	0.5396132	0.7166409	0.1770277
0.012122	0.00844	20.73895	19.1644	0.8116628	0.6959962	0.7906793	0.09468307
0.013609	0.00846	20.72538	18.66186	0.808206	0.7001381	0.7983857	0.09824757
0.007992	0.00764	21.16724	20.97357	0.8891389	0.779117	0.8758811	0.09676408
0.028351	0.03434	14.64227	15.47435	0.8798833	0.7561992	0.8795493	0.12335
0.019684	0.02963	15.28237	17.05878	0.5967545	0.6752079	0.5882407	-0.08696706
0.037027	0.00304	25.17792	14.31484	0.714263	0.5694615	0.4573126	-0.1121488
0.032071	0.00634	21.97674	14.93891	0.8692169	0.5969445	0.4561706	-0.1407738
0.026523	0.01083	19.65372	15.76381	0.8822035	0.7232593	0.8404883	0.1172289
0.029669	0.02114	16.7485	15.27695	0.8221983	0.7067229	0.5995588	-0.107164
0.005686	0.00204	26.90718	22.45165	0.7063175	0.5864851	0.6843623	0.09787717
0.031241	3.07E-07	65.12598	15.05274	0.1736325	0.6464636	0.7149549	0.06849138
0.001347	0.00134	28.72528	28.70672	0.6618036	0.7347488	0.6591913	-0.07555752
0.017359	0.00148	28.30465	17.60467	0.8493925	0.5331207	0.3832799	-0.1498408
0.009729	0.00101	29.94799	20.11919	0.8343474	0.7248635	0.792307	0.0674435



0.045259	0.00294	25.312	13.44297	0.761381	0.5239033	0.624523	0.1006197
0.034384	0.01745	17.58219	14.6364	0.7694411	0.8326747	0.7529859	-0.07968877
0.023328	0.01223	19.12555	16.32129	0.7986978	0.6893767	0.7864448	0.09706816
0.006319	0.03327	14.77987	21.99341	0.8078783	0.6836607	0.493601	-0.1900597
0.043425	0.01744	17.58396	13.62262	0.0830681	0.2079641	0.3326339	0.1246698
0.008539	0.00516	22.87399	20.68569	0.8438961	0.7937846	0.8514013	0.05761668
0.014708	5.59E-05	42.52831	18.32439	0.788223	0.6850196	0.5923985	-0.09262115
0.006199	0.01017	19.92728	22.07655	0.6817008	0.7649866	0.6799874	-0.08499919
0.003688	0.00221	26.55582	24.33154	0.1175136	0.2050854	0.3173644	0.112279
0.035601	0.01276	18.9426	14.48537	0.919858	0.6858259	0.5065972	-0.1792287
0.007093	0.00014	38.6104	21.49158	0.4828555	0.3712072	0.4347497	0.06354243
0.00154	0.02451	16.10658	28.12437	0.9000965	0.728389	0.4138406	-0.3145484
0.024166	0.02305	16.37281	16.16795	0.8739342	0.6033154	0.8734612	0.270146
0.045762	0.01997	16.99549	13.39493	0.297649	0.4125504	0.3293714	-0.083179
0.044013	2.83E-05	45.48118	13.56423	0.6690369	0.4325391	0.5189713	0.08643225
0.029686	0.01888	17.23961	15.27442	0.810228	0.8725114	0.8187706	-0.05374077
0.00064	5.13E-06	52.90253	31.94037	0.1901856	0.5030992	0.6373621	0.1342629
0.007045	0.0001	39.97545	21.52126	0.3729956	0.6958834	0.5644438	-0.1314396
0.006202	6.42E-07	61.92697	22.07471	0.8183432	0.6664696	0.5708091	-0.09566053
0.006176	0.00204	26.89373	22.0926	0.1385055	0.0615276	0.1194571	0.0579295
0.017247	0.00395	24.03073	17.63288	0.9138521	0.840605	0.8938594	0.0532545
0.004173	0.00398	24.00233	23.79572	0.6119632	0.737547	0.6169564	-0.1205906
0.012722	0.01753	17.56175	18.95443	0.6497634	0.7033572	0.6456435	-0.05771373
0.000664	0.00115	29.38713	31.77978	0.5195498	0.3977699	0.5054154	0.1076455
0.02392	2.03E-05	46.92874	16.21239	0.8660296	0.5355394	0.4606281	-0.07491133
0.037508	0.00082	30.84134	14.25871	0.8626233	0.6585816	0.5833603	-0.07522122
0.021069	0.00668	21.75139	16.76358	0.1896403	0.0981228	0.166712	0.06858917
0.000997	0.00262	25.81121	30.01149	0.7199659	0.8005432	0.7090076	-0.09153574
0.044067	0.01916	17.17691	13.55884	0.8638502	0.6696103	0.8027788	0.1331686
0.00273	0.00022	36.59775	25.63898	0.1302717	0.0534576	0.1185774	0.06511973
0.000551	0.02712	15.66704	32.5922	0.7258617	0.8071006	0.6550167	-0.1520839
0.0054	0.03206	14.9407	22.67587	0.7371496	0.6538849	0.5180327	-0.1358522
0.029659	0.02269	16.44184	15.27849	0.477581	0.3885544	0.4404134	0.05185902
0.045511	0.00023	36.4255	13.41882	0.7325928	0.6156915	0.5621868	-0.05350472
0.009213	0.00063	31.9874	20.35617	0.2755446	0.0911772	0.18669	0.09551283
0.016075	0.03272	14.85206	17.93858	0.2914987	0.3491159	0.2800974	-0.06901854
0.00015	6.67E-05	41.76003	38.22626	0.8240415	0.901049	0.8133391	-0.08770993
0.01056	0.00892	20.49805	19.76343	0.8512147	0.9177188	0.8571094	-0.06060935
0.021632	0.02976	15.26384	16.64898	0.9075098	0.7624736	0.6117455	-0.1507281
0.045716	0.00425	23.71316	13.39927	0.687571	0.4956181	0.3887621	-0.1068559
0.004715	0.00029	35.33952	23.26482	0.1403086	0.0623002	0.1252308	0.06293055
0.021189	0.00059	32.31253	16.73883	0.5315472	0.3753148	0.4409601	0.06564528
0.001468	6.70E-05	41.73812	28.33288	0.5273705	0.7358342	0.7961054	0.06027123
0.001667	0.00347	24.60003	27.78159	0.7501044	0.6634293	0.5896771	-0.07375222
0.004572	0.02102	16.77439	23.39896	0.6739638	0.5823808	0.6977898	0.1154091
0.028121	0.02805	15.52121	15.50969	0.9320549	0.8813939	0.9314342	0.05004031
0.028611	0.0017	27.69386	15.43459	0.8592081	0.7614944	0.81647	0.05497563
0.029456	0.01756	17.55375	15.3083	0.8436792	0.9071983	0.85271	-0.05448828
0.001593	0.004	23.98463	27.97675	0.2072988	0.1038649	0.2044918	0.1006268
0.020691	3.58E-05	44.46698	16.84213	0.7979399	0.6675428	0.7401829	0.07264008
0.020366	0.00055	32.58442	16.91101	0.413419	0.5637195	0.6319187	0.06819924
0.007105	0.01032	19.86325	21.48439	0.5648588	0.6918606	0.5629183	-0.1289423
0.003563	0.00035	34.56343	24.4822	0.1362317	0.046781	0.1071421	0.06036111
0.004628	0.00045	33.51048	23.34653	0.0930425	0.1679735	0.1076641	-0.0603094

0.000274	0.00012	39.06098	35.62388	0.8993806	0.9522746	0.8867381	-0.06553645
0.048571	0.00566	22.47432	13.13621	0.3966539	0.2731158	0.3769216	0.1038058
0.000115	3.57E-06	54.47659	39.4049	0.3999865	0.2707943	0.4005987	0.1298044
0.03145	0.02584	15.87655	15.02382	0.8971731	0.7860109	0.8911051	0.1050942
0.002795	0.00103	29.85833	25.53586	0.202397	0.1339927	0.1895761	0.0555834
0.028619	0.02004	16.98184	15.43343	0.7674998	0.472683	0.736518	0.2638351
0.018195	3.66E-05	44.36756	17.4004	0.2736101	0.4904014	0.405577	-0.08482445
0.008235	0.01062	19.74053	20.84311	0.6792704	0.7537501	0.6689581	-0.08479201
0.000286	7.43E-05	41.29143	35.44144	0.2128048	0.1314666	0.1974904	0.06602386
4.40E-05	0.00012	39.29176	43.5639	0.7244803	0.7854526	0.7120864	-0.0733662
0.022131	0.0321	14.93436	16.55006	0.1902334	0.126208	0.1885717	0.06236367
0.037218	0.00636	21.96352	14.29243	0.7803925	0.6574104	0.7340299	0.07661956
0.001612	0.00093	30.32716	27.92584	0.6830737	0.838219	0.7208437	-0.1173753
0.023541	0.00178	27.49751	16.28175	0.9083675	0.6975679	0.5988589	-0.098709
0.005177	0.04358	13.60743	22.85937	0.6387763	0.547198	0.3887312	-0.1584668
0.002656	4.65E-08	73.32854	25.75732	0.164819	0.6737798	0.7534723	0.07969238
0.000242	0.00013	38.89744	36.16587	0.2102714	0.1142194	0.1970643	0.08284497
0.018134	0.01394	18.55863	17.41501	0.8817338	0.9363945	0.882965	-0.05342944
0.045788	0.03841	14.15547	13.39245	0.3138029	0.4376898	0.3603685	-0.07732123
0.017871	0.0107	19.70428	17.47844	0.845002	0.9292234	0.8578844	-0.07133904
0.007622	0.00104	29.84582	21.17915	0.865897	0.9607557	0.9107076	-0.05004816
0.021302	0.00609	22.15384	16.71589	0.8933214	0.7021284	0.8310015	0.1288732
0.00659	1.55E-07	68.10302	21.8114	0.586311	0.8876351	0.8307052	-0.05692986
0.027076	0.03804	14.19735	15.67419	0.707877	0.4881313	0.3212236	-0.1669077
0.017263	0.04305	13.65991	17.62892	0.6859336	0.6325635	0.6958612	0.0632977
0.014232	0.00208	26.82414	18.46729	0.8853935	0.8035894	0.8564695	0.05288009
0.015834	0.00416	23.81318	18.0042	0.7852364	0.7006269	0.6335137	-0.06711318
0.030663	0.00146	28.35364	15.13379	0.0784756	0.1711961	0.2386438	0.06744767
0.023828	5.93E-06	52.2663	16.22904	0.8449574	0.6779505	0.7346868	0.05673634
0.044382	0.01004	19.98095	13.52793	0.8309752	0.5923369	0.7380094	0.1456725
5.41E-05	0.00062	32.05529	42.66454	0.8403381	0.9256557	0.8032574	-0.1223984
0.00948	0.02224	16.52884	20.2319	0.8236086	0.890363	0.8077239	-0.08263907
0.038872	0.03317	14.79194	14.10358	0.9240937	0.7787548	0.9143832	0.1356285
0.002298	0.00567	22.46149	26.3862	0.8355559	0.7592992	0.8494849	0.09018564
0.005193	0.00256	25.90915	22.84595	0.6862411	0.7931997	0.7083563	-0.08484344
8.61E-05	0.00212	26.73104	40.65195	0.6946878	0.8160395	0.6428941	-0.1731454
0.03516	0.00377	24.23545	14.53952	0.7569986	0.6120403	0.6878133	0.07577294
0.045928	0.02637	15.7889	13.37918	0.8288155	0.7231612	0.8043525	0.08119133
0.018473	0.02006	16.97747	17.33456	0.8713037	0.7580968	0.8687952	0.1106983
0.000469	0.00936	20.28866	33.28432	0.774466	0.6612272	0.5032669	-0.1579603
0.005363	0.00074	31.31095	22.70631	0.801868	0.6979281	0.760989	0.06306084
0.003275	0.00023	36.46505	24.84823	0.1216436	0.3167425	0.443275	0.1265325
0.019935	0.00754	21.22392	17.00379	0.7555099	0.6334447	0.7271329	0.09368812
0.033897	0.0275	15.60601	14.69838	0.8936505	0.8218092	0.8890362	0.06722701
7.54E-05	0.00014	38.60011	41.22668	0.2188689	0.0915411	0.2236483	0.1321072
0.032277	0.00503	22.98478	14.91107	0.8408926	0.7088269	0.7820531	0.07322623
0.001822	0.00422	23.74426	27.39433	0.8487232	0.9211646	0.835821	-0.08534359
0.032898	0.00041	33.87831	14.82835	0.8851308	0.5132407	0.4114439	-0.1017967
6.74E-05	5.37E-05	42.69627	41.71167	0.864466	0.8002267	0.8503436	0.05011693
0.001119	0.00325	24.88749	29.51054	0.5857475	0.7691826	0.5834389	-0.1857436
8.48E-06	0.00041	33.89143	50.71425	0.5790542	0.7164177	0.5570397	-0.159378
0.003229	0.01249	19.03394	24.90868	0.5421119	0.6207542	0.52149	-0.0992642
0.010839	0.02908	15.3638	19.65016	0.7241514	0.819466	0.7066506	-0.1128155
0.019044	0.03509	14.54818	17.20243	0.5497948	0.4100642	0.29145	-0.1186142

0.012648	0.00237	26.25149	18.97972	0.103865	0.4392407	0.6014287	0.162188
0.041504	0.03022	15.19656	13.8191	0.6868879	0.5639225	0.4638335	-0.100089
0.000164	1.33E-06	58.74524	37.8595	0.7510605	0.5749034	0.6898268	0.1149234
0.032096	0.03074	15.12303	14.93549	0.2609789	0.1514885	0.2591404	0.1076519
7.40E-05	2.82E-07	65.4966	41.31018	0.6351224	0.7928267	0.6644735	-0.1283531
0.049483	0.03089	15.10235	13.05545	0.8037671	0.6848235	0.5814027	-0.1034207
0.008487	0.04246	13.71995	20.71268	0.6779753	0.7492584	0.6415205	-0.1077379
0.043217	0.00026	35.90365	13.6435	0.5644753	0.3023036	0.3930936	0.09078995
0.039052	0.04851	13.142	14.08362	0.050455	0.1045427	0.3073237	0.2027809
0.002443	0.00165	27.82635	26.1205	0.7728329	0.8526421	0.782646	-0.06999613
0.013972	0.02115	16.74709	18.54757	0.7873402	0.7372895	0.7939655	0.05667594
0.017624	0.04735	13.24684	17.53896	0.6789186	0.7358951	0.6609662	-0.07492898
0.002538	0.00054	32.71591	25.95487	0.8658592	0.6833094	0.8071502	0.1238408
5.01E-06	1.69E-06	57.73271	53.00423	0.2722624	0.1704857	0.2660105	0.09552483
0.045409	0.01123	19.49655	13.42859	0.2069475	0.3014242	0.3624909	0.0610667
0.000838	1.38E-05	48.61316	30.76972	0.674835	0.7480618	0.6768292	-0.07123262
0.020824	0.00735	21.33523	16.81428	0.7436591	0.6047567	0.7055018	0.1007451
0.022803	0.02135	16.70571	16.42001	0.40501	0.2089523	0.3967454	0.1877931
0.001999	0.00018	37.33741	26.99137	0.9027953	0.8164694	0.8701866	0.05371717
0.026657	0.02825	15.49016	15.74187	0.8258268	0.6771327	0.8235167	0.146384
0.023343	0.00722	21.41732	16.31845	0.5524064	0.4581709	0.545542	0.08737107
0.006865	0.03613	14.42085	21.63375	0.5638838	0.6387181	0.5201087	-0.1186094
0.017521	0.01526	18.16507	17.56441	0.2278991	0.1473062	0.2180735	0.07076725
0.029737	0.03085	15.10707	15.26707	0.6196113	0.6745837	0.6202208	-0.0543629
0.012152	0.00014	38.40845	19.15348	0.8543221	0.7075872	0.6211548	-0.08643244
0.008295	0.00402	23.95618	20.81165	0.1495968	0.2442748	0.3537742	0.1094994
0.036784	0.03258	14.86983	14.34343	0.6563851	0.7107791	0.6581748	-0.0526043
0.008726	0.01262	18.9887	20.59186	0.0507084	0.3028154	0.5448456	0.2420302
0.011786	0.00136	28.65742	19.28631	0.8597371	0.7761771	0.8301431	0.05396599
0.001867	0.0014	28.53213	27.28794	0.6356729	0.695155	0.6285968	-0.06655817
0.031454	0.04948	13.05567	15.02322	0.7796279	0.8404741	0.7689064	-0.07156772
0.026465	0.00191	27.20082	15.77325	0.0990873	0.3215508	0.2015109	-0.1200399
0.001077	0.02103	16.77148	29.67593	0.7435944	0.6883485	0.7809844	0.09263594
0.028153	0.00646	21.89652	15.50476	0.8752664	0.7421463	0.8328151	0.09066883
3.61E-06	1.91E-06	57.19155	54.43036	0.2038148	0.1030824	0.1979268	0.09484434
0.007856	0.00191	27.17932	21.04804	0.6702538	0.772805	0.7114593	-0.06134573
0.000975	0.00083	30.78492	30.10853	0.1899592	0.0992028	0.1612911	0.0620883
0.011655	0.00043	33.63031	19.33482	0.6196369	0.7618645	0.836112	0.0742475
0.000456	0.0019	27.20894	33.40582	0.6159367	0.7391801	0.5856062	-0.1535739
0.006817	4.13E-06	53.84103	21.66409	0.8611951	0.6547003	0.5790896	-0.07561067
0.006156	0.0007	31.53543	22.10684	0.1831245	0.0760644	0.1467832	0.07071875
0.000265	0.00076	31.1743	35.76731	0.786745	0.9454523	0.7834942	-0.1619582
0.020015	0.02933	15.32718	16.9864	0.8563271	0.9361821	0.8537035	-0.08247864
0.016025	0.00277	25.58135	17.95195	0.7138785	0.5567729	0.6261244	0.06935158
0.03643	0.04124	13.84694	14.38537	0.5146482	0.64815	0.5115929	-0.136557
0.001689	0.00558	22.53048	27.72336	0.5203519	0.6553157	0.4815412	-0.1737745
0.031564	0.02001	16.9867	15.00808	0.0600143	0.2395923	0.4005268	0.1609344
0.020686	0.00368	24.3428	16.84321	0.8307371	0.75278	0.8058431	0.05306313
0.000176	0.00625	22.04198	37.54393	0.7762597	0.847088	0.7194138	-0.1276741
0.015104	0.04164	13.80465	18.20907	0.8099084	0.8710085	0.7901451	-0.08086336
0.023061	0.00204	26.90452	16.37123	0.6268217	0.4959277	0.5727063	0.07677865
0.001009	0.00091	30.40444	29.96001	0.5630582	0.1818669	0.5103527	0.3284857
0.039487	0.02289	16.40407	14.03543	0.2974787	0.3721163	0.3092576	-0.06285872
0.029417	0.00285	25.45304	15.314	0.5304504	0.7681761	0.6542612	-0.1139149

0.004657	0.00569	22.45216	23.31898	0.73693	0.8540876	0.7340537	-0.1200339
5.49E-06	1.49E-06	58.28263	52.60284	0.519712	0.6729974	0.5380979	-0.1348995
0.004249	0.00458	23.39292	23.71755	0.8092407	0.7139368	0.8042082	0.09027133
0.011701	0.00259	25.8737	19.31759	0.6147839	0.7303784	0.6454692	-0.08490921
0.001153	0.01146	19.40828	29.38044	0.1332379	0.2192796	0.3702565	0.1509769
0.030001	0.04579	13.39204	15.22871	0.8941822	0.7774807	0.651706	-0.1257746
0.013654	0.00891	20.5	18.64745	0.7465057	0.6736966	0.6230037	-0.05069292
0.003257	0.00421	23.75386	24.87209	0.8476363	0.9100142	0.8569219	-0.05309234
0.047668	0.01676	17.75597	13.21777	0.8268948	0.6758374	0.7840588	0.1082215
0.005745	0.02211	16.55356	22.40698	0.5313365	0.6007574	0.4945105	-0.1062469
0.000498	0.00186	27.31227	33.02353	0.4320398	0.3146946	0.4588003	0.1441058
0.019487	0.00853	20.69247	17.10257	0.92829	0.8502499	0.6959783	-0.1542715
0.016275	0.00284	25.46268	17.88484	0.6778082	0.7996681	0.7109215	-0.08874661
0.024596	6.91E-07	61.604	16.0914	0.8040941	0.6365907	0.564084	-0.07250669
0.007883	0.00939	20.27152	21.03321	0.8111255	0.7148343	0.6188304	-0.09600385
0.029035	0.00042	33.76829	15.37084	0.143383	0.2227038	0.2901448	0.06744102
0.032755	0.0005	33.00332	14.84725	0.1533604	0.4961284	0.6710914	0.174963
0.016833	0.00881	20.55244	17.73849	0.2512482	0.1489232	0.2335131	0.0845899
0.035645	0.02723	15.64903	14.48007	0.8847762	0.810763	0.7014991	-0.1092639
0.014814	3.56E-05	44.48698	18.29317	0.063724	0.1942491	0.1382879	-0.05596118
5.46E-05	0.00216	26.65359	42.63149	0.7049085	0.7901279	0.6476207	-0.1425073
0.032297	0.00165	27.81383	14.90834	0.8768286	0.8039826	0.7357609	-0.0682217
0.011741	0.00028	35.51332	19.30295	0.8510433	0.7043738	0.7717277	0.0673539
0.003536	0.0004	33.97223	24.51449	0.0806271	0.3223974	0.5397151	0.2173177
0.003298	0.00161	27.94431	24.81789	0.6005836	0.7380244	0.8161498	0.07812534
0.000723	0.00051	32.95328	31.40968	0.2357976	0.0765859	0.2121802	0.1355942
0.008505	0.01999	16.992	20.70335	0.6557454	0.7361827	0.6422212	-0.09396152
0.00606	0.00155	28.09242	22.17537	0.8607658	0.9356844	0.8838149	-0.05186952
0.01823	0.03133	15.0398	17.39224	0.2300633	0.1545354	0.2356735	0.08113809
0.0212	0.02078	16.82345	16.73663	0.8012507	0.5768087	0.7822956	0.205487
0.000129	0.00022	36.66093	38.88916	0.3118018	0.2379544	0.3113719	0.07341748
0.013625	0.00401	23.96926	18.65668	0.8965257	0.7771795	0.8522682	0.07508875
0.00405	0.00236	26.26786	23.92597	0.9296303	0.8359729	0.9202081	0.08423518
0.019333	0.0119	19.24597	17.13694	0.5913865	0.6527544	0.5978125	-0.05494185
0.000209	0.0004	33.95486	36.80576	0.7308161	0.8083526	0.7236751	-0.08467746
1.12E-05	1.48E-06	58.29385	49.50224	0.668938	0.7814886	0.6867275	-0.09476107
0.001949	0.00048	33.22012	27.10123	0.764443	0.8433438	0.7548696	-0.08847416
9.51E-05	0.00041	33.92004	40.21693	0.4523864	0.6384795	0.4724947	-0.1659849
0.00577	0.00072	31.42043	22.38853	0.2107058	0.3067206	0.3717223	0.0650017
0.000739	0.00102	29.93403	31.31066	0.3072536	0.2089464	0.2966889	0.08774255
2.56E-05	2.63E-06	55.79227	45.91917	0.8662269	0.9245516	0.851476	-0.07307561
0.042731	0.00204	26.90985	13.69262	0.7764671	0.5322695	0.6466755	0.1144059
0.000266	0.00024	36.14467	35.75333	0.6999731	0.7595062	0.7023451	-0.05716104
0.001145	0.0178	17.49659	29.41044	0.3556837	0.4300645	0.2950188	-0.1350457
0.001134	0.00105	29.78738	29.45532	0.3326922	0.1901686	0.3255459	0.1353773
0.001077	0.00467	23.30326	29.67917	0.8860211	0.9469187	0.8696097	-0.07730905
0.002414	3.41E-05	44.66926	26.17187	0.794288	0.6024981	0.4731086	-0.1293894
0.004119	0.00259	25.86615	23.85184	0.3061365	0.1376648	0.2528621	0.1151973
0.01873	0.00101	29.95428	17.27454	0.8765547	0.7424124	0.8033359	0.06092349
0.02121	0.02353	16.28419	16.73454	0.3134555	0.1679354	0.3063654	0.13843
0.00327	0.00073	31.3784	24.85469	0.8076158	0.9135409	0.766722	-0.1468189
0.0188	0.00206	26.85221	17.2584	0.7708576	0.59258	0.7015511	0.1089711
0.020002	0.0011	29.5975	16.98928	0.7846082	0.6106837	0.5374909	-0.07319278
0.032454	0.01438	18.42101	14.88729	0.8734707	0.8070937	0.8593445	0.05225081

0.005758	0.02804	15.52179	22.39716	0.5903905	0.6441739	0.5598175	-0.0843564
0.000794	0.00741	21.30406	30.99914	0.1697673	0.1061448	0.201754	0.0956093
0.001584	0.00058	32.36039	28.00315	0.8055451	0.9281335	0.825134	-0.1029996
0.031577	0.01395	18.55304	15.00624	0.844343	0.7496068	0.8295538	0.07994696
0.0303	0.00011	39.55004	15.18553	0.1014137	0.2876568	0.2241742	-0.0634826
0.008026	0.00025	35.9502	20.95502	0.1469281	0.2741458	0.4113637	0.137218
0.001224	0.0018	27.44814	29.12052	0.8006787	0.7181168	0.8072277	0.08911096
0.003478	0.00213	26.71354	24.58635	0.6284356	0.8003752	0.6304243	-0.1699508
0.02089	0.00264	25.7764	16.80056	0.114813	0.323145	0.4053716	0.08222664
0.0008	0.00028	35.46283	30.9711	0.8443262	0.9062003	0.8481302	-0.05807015
0.03659	0.02162	16.65045	14.36642	0.4294243	0.3551039	0.4174761	0.06237216
0.031969	0.00112	29.52477	14.95276	0.2649257	0.4968296	0.5997831	0.1029535
0.008588	0.04799	13.18866	20.66116	0.648549	0.7289569	0.6014481	-0.1275088
0.016787	0.01331	18.75728	17.75026	0.7038744	0.811577	0.7225193	-0.08905774
0.032486	0.0222	16.53676	14.88304	0.7292221	0.5738465	0.4403012	-0.1335452
0.040453	0.04585	13.38626	13.93049	0.1988193	0.1379281	0.2000033	0.0620752
0.030293	0.01489	18.27132	15.18653	0.8076861	0.8791528	0.8250711	-0.05408163
0.00505	0.02663	15.74564	22.96709	0.8975101	0.8305888	0.7088691	-0.1217197
0.017269	9.30E-06	50.31593	17.62734	0.1367394	0.4084388	0.4969309	0.08849204
0.012408	0.01338	18.73629	19.06287	0.5918431	0.7053062	0.5827856	-0.1225206
0.010409	0.00064	31.91166	19.8259	0.7495136	0.4367566	0.6018357	0.1650792
0.034045	0.00788	21.03505	14.67953	0.7416582	0.6201261	0.7032085	0.08308242
0.034029	0.01114	19.53295	14.68154	0.590546	0.7625583	0.6354945	-0.1270639
0.001755	0.00639	21.94683	27.55717	0.8723424	0.8183994	0.873386	0.05498653
0.009902	0.00617	22.09584	20.04281	0.8317735	0.7624881	0.8188163	0.05632815
0.006859	0.0038	24.20598	21.63723	0.8057516	0.6991227	0.7934493	0.09432668
0.009571	0.04426	13.54001	20.19024	0.3975925	0.3334656	0.4316508	0.09818515
0.024886	0.02315	16.35376	16.04046	0.1409972	0.07115	0.1341019	0.06295189
0.038886	0.0102	19.91391	14.1021	0.8189615	0.7129843	0.780789	0.06780473
0.000889	6.29E-06	52.01463	30.51051	0.9176771	0.9810585	0.9239014	-0.05715706
0.003106	0.01295	18.87833	25.07817	0.8380061	0.896305	0.81624	-0.08006504
0.014308	0.01944	17.11273	18.44428	0.1620576	0.2383388	0.3472046	0.1088658
6.79E-06	1.52E-06	58.17009	51.68211	0.7468565	0.8912218	0.7634395	-0.1277823
0.016236	0.04256	13.70997	17.89533	0.803993	0.8955516	0.8060991	-0.08945259
0.033733	0.03836	14.16073	14.71944	0.712746	0.7763779	0.7099366	-0.06644135
0.035185	0.03827	14.1715	14.53645	0.6234433	0.719973	0.6224608	-0.09751213
0.044528	0.01146	19.40821	13.51363	0.8469046	0.6590986	0.7813003	0.1222017
0.009349	0.00284	25.46677	20.29245	0.8798711	0.8189353	0.8707203	0.05178492
0.039941	0.04006	13.97246	13.98581	0.8671558	0.7676461	0.8607367	0.09309059
0.021788	3.62E-06	54.40865	16.61789	0.9020104	0.6761325	0.7481937	0.07206117
0.038826	0.00799	20.9747	14.10875	0.8283671	0.7366315	0.7935222	0.05689074
0.012375	0.01625	17.89055	19.0744	0.504876	0.6135661	0.494735	-0.118831
0.000966	0.00445	23.51181	30.15031	0.4752365	0.6320164	0.7243162	0.09229974
0.005834	0.00164	27.86099	22.34044	0.586683	0.4456019	0.5504592	0.1048573
0.03214	0.02332	16.32259	14.92959	0.8009133	0.734624	0.795995	0.06137103
0.035516	0.00607	22.16843	14.4957	0.0588512	0.3871046	0.5609564	0.1738518
0.000552	3.23E-07	64.90286	32.57866	0.7437966	0.9113596	0.7432397	-0.1681199
0.014606	0.02313	16.35834	18.35459	0.1647817	0.1102834	0.1713577	0.06107429
0.021414	0.01601	17.95504	16.69307	0.168096	0.098471	0.1577799	0.05930889
0.000113	0.00123	29.11119	39.47718	0.7092269	0.7988448	0.6582577	-0.140587
0.044724	0.00597	22.23883	13.49461	0.6403433	0.513675	0.442493	-0.07118196
0.009229	0.00232	26.35097	20.34857	0.8126062	0.7388746	0.7953243	0.05644965
0.014774	0.00242	26.1653	18.30509	0.6872092	0.3428825	0.538003	0.1951205
0.032205	0.03373	14.7192	14.92071	0.8748979	0.8218305	0.7475653	-0.07426515

0.025215	0.00186	27.30177	15.98345	0.866013	0.7700222	0.6912549	-0.07876725
0.000923	0.00212	26.73548	30.34958	0.5139395	0.5957435	0.5028327	-0.09291078
0.002072	0.00346	24.61538	26.83663	0.4814383	0.5575478	0.4701602	-0.08738764
0.048982	0.01936	17.1307	13.09959	0.9068661	0.6139337	0.8259661	0.2120323
0.033265	0.00394	24.04779	14.78014	0.2549123	0.3479774	0.4120502	0.06407283
0.000152	0.0002	36.9362	38.17109	0.864727	0.9246487	0.8618194	-0.06282929
0.046574	0.00939	20.2716	13.3186	0.7904915	0.7105145	0.7627329	0.0522184
0.002742	0.00196	27.0842	25.61978	0.4155184	0.2787327	0.404904	0.1261713
0.011455	0.00918	20.3728	19.41021	0.783084	0.8715473	0.7887989	-0.08274838
0.004646	0.00362	24.41526	23.32955	0.7452546	0.5911662	0.7559734	0.1648072
0.006202	0.00988	20.05456	22.07496	0.5684351	0.7291789	0.5505893	-0.1785896
0.017309	0.00865	20.6312	17.61735	0.8548521	0.7950068	0.8455612	0.05055445
0.043672	0.04592	13.37968	13.59799	0.9729175	0.9167189	0.8599995	-0.05671939
0.008148	0.00854	20.68761	20.88936	0.8036917	0.658356	0.7953073	0.1369513
0.04492	0.0378	14.22469	13.47561	0.7328178	0.7862408	0.7358385	-0.05040224
0.020262	0.0027	25.68561	16.93312	0.9191433	0.8160273	0.7451549	-0.07087248
0.016169	0.01824	17.39055	17.91312	0.1829491	0.1136896	0.1887265	0.07503695
0.048247	0.04008	13.97085	13.16526	0.7362167	0.5686845	0.721271	0.1525865
0.032453	0.00418	23.78341	14.88749	0.576399	0.8037802	0.6783953	-0.125385
0.034913	0.00489	23.10955	14.57018	0.8802999	0.5809405	0.7250619	0.1441214
0.001961	0.00269	25.7073	27.07577	0.6928615	0.7777956	0.6893865	-0.08840896
0.001565	0.00055	32.59319	28.05601	0.1739698	0.0910906	0.1558811	0.06479048
0.032451	0.0143	18.44585	14.88768	0.7092788	0.8105583	0.7342952	-0.07626307
0.045644	1.09E-05	49.62003	13.40621	0.1552966	0.6705989	0.5671115	-0.1034874
0.001333	8.94E-05	40.48821	28.75288	0.1636582	0.0853081	0.1435493	0.05824119
0.048073	0.03367	14.72699	13.18099	0.356833	0.2791972	0.2055696	-0.0736276
0.015439	0.01826	17.38402	18.11377	0.5388938	0.6185281	0.5319828	-0.08654525
4.16E-05	6.54E-05	41.84501	43.81026	0.1202148	0.0556271	0.1151577	0.05953059
0.040646	0.00095	30.2198	13.90979	0.9223089	0.9736959	0.894109	-0.07958693
0.037231	0.00215	26.67021	14.2909	0.8582921	0.7055699	0.7861826	0.08061279
0.030655	0.01809	17.42678	15.13504	0.1910204	0.1157697	0.1725328	0.05676308
0.011396	0.00014	38.39976	19.43266	0.1324526	0.2470089	0.1866675	-0.06034134
0.00441	0.01239	19.06996	23.55573	0.3231687	0.5681533	0.2659937	-0.3021596
0.018908	0.02522	15.98209	17.23346	0.4820441	0.6207135	0.4819913	-0.1387223
0.03124	0.01891	17.23228	15.05289	0.4093116	0.2589084	0.3845812	0.1256728
0.005891	0.00322	24.92472	22.29775	0.6681061	0.8297066	0.6815271	-0.1481795
0.000859	0.00079	31.05092	30.66098	0.864664	0.7815536	0.863297	0.08174343
0.02881	0.00027	35.75916	15.40463	0.0768744	0.4649555	0.5705106	0.1055552
0.005926	0.00709	21.49238	22.27207	0.6772336	0.7384892	0.6737346	-0.06475449
0.020979	0.00366	24.36049	16.78225	0.8113917	0.7368983	0.7870556	0.05015732
0.049566	0.00185	27.33151	13.0482	0.8244279	0.6176643	0.7125491	0.09488489
0.01667	0.01449	18.39047	17.7807	0.6311441	0.6999084	0.637269	-0.06263939
3.79E-06	9.97E-05	40.0126	54.21827	0.7347722	0.7880312	0.706193	-0.08183818
0.001196	4.69E-05	43.29004	29.22099	0.6861984	0.7694409	0.7098368	-0.05960418
0.024634	0.02159	16.658	16.08457	0.571576	0.6286129	0.569452	-0.05916088
0.003152	0.00038	34.23553	25.01356	0.1808861	0.0979309	0.1667553	0.06882446
0.004131	0.00278	25.55589	23.83984	0.9083022	0.8256761	0.9064449	0.08076882
0.029841	0.01152	19.38453	15.2518	0.1307805	0.3591834	0.5244634	0.16528
0.029232	0.00195	27.10489	15.34136	0.8120791	0.6091703	0.5133928	-0.09577743
0.029465	0.00743	21.29237	15.30695	0.5814367	0.3610286	0.5151111	0.1540826
0.033613	0.02157	16.66247	14.7349	0.6951333	0.8137233	0.7104166	-0.1033067
4.55E-05	0.00047	33.28845	43.42227	0.8397968	0.9077149	0.8171967	-0.09051827
0.001578	0.0001	39.82921	28.01833	0.1564633	0.0967576	0.1533358	0.05657821
0.000198	0.0003	35.23541	37.0225	0.8053061	0.9141375	0.8071352	-0.1070023

0.017302	0.009	20.45778	17.61905	0.893521	0.7353841	0.601835	-0.1335492
0.017713	0.00189	27.23462	17.51703	0.6250455	0.5176059	0.4578567	-0.05974921
0.00011	0.01497	18.24648	39.59676	0.6672272	0.7204058	0.5874562	-0.1329495
1.74E-06	9.04E-06	50.43901	57.59496	0.4193782	0.5246601	0.4205967	-0.1040634
0.003781	0.00018	37.34075	24.22426	0.2200596	0.5566981	0.7273042	0.1706062
9.35E-05	0.00017	37.59385	40.29121	0.1567777	0.078625	0.1449134	0.06628843
0.0368	0.01959	17.08036	14.34155	0.8298568	0.7257273	0.8111873	0.08545996
0.000221	9.72E-05	40.1216	36.54922	0.4759279	0.7205616	0.4696284	-0.2509332
0.007434	0.00181	27.41358	21.28801	0.7348866	0.8585548	0.7551619	-0.1033928
0.024935	0.01224	19.12187	16.03185	0.8630283	0.7923846	0.8521672	0.05978258
0.001951	0.00032	34.93554	27.09692	0.2368113	0.1488453	0.2095933	0.06074796
2.21E-06	4.16E-07	63.80546	56.56476	0.3704311	0.5421877	0.410873	-0.1313147
0.00113	0.00017	37.63167	29.47041	0.3798533	0.2663276	0.3455509	0.07922339
0.015311	0.02236	16.5052	18.15005	0.8750171	0.8140998	0.8766961	0.0625963
0.001105	6.67E-06	51.75575	29.56804	0.2220923	0.1260218	0.2321207	0.1060988
0.031715	0.03543	14.50593	14.9874	0.0568316	0.1109769	0.0574853	-0.05349159
0.01879	0.01694	17.71138	17.26079	0.4587294	0.341102	0.4629748	0.1218729
2.03E-05	7.39E-05	41.31463	46.92205	0.40129	0.4887136	0.383239	-0.1054745
0.007574	0.00285	25.45503	21.20692	0.8509339	0.9149932	0.8614764	-0.05351687
0.019889	0.0411	13.8614	17.0138	0.7794883	0.8589699	0.789425	-0.06954496
0.01205	0.00106	29.73195	19.19019	0.830306	0.7777735	0.7197462	-0.05802728
0.016292	0.02114	16.74998	17.88015	0.5725488	0.6379328	0.5690722	-0.0688605
0.010761	0.03515	14.54105	19.68135	0.653491	0.7188129	0.6359676	-0.0828454
0.015713	0.00232	26.34885	18.03752	0.8362871	0.6547539	0.7632179	0.1084641
0.003509	0.00813	20.89935	24.54769	0.9049113	0.8000485	0.6832371	-0.1168113
0.005627	0.02827	15.48613	22.49755	0.8632054	0.9159252	0.8422345	-0.07369068
0.012618	0.00061	32.17448	18.99009	0.8216567	0.7415497	0.7950601	0.05351047
0.008958	1.08E-05	49.67955	20.47789	0.3168333	0.5136549	0.610018	0.09636313
0.001773	0.02122	16.73285	27.51252	0.7298919	0.794404	0.6801921	-0.1142119
0.023747	6.84E-06	51.64869	16.24392	0.0738271	0.385081	0.3332465	-0.05183448
0.044298	0.00018	37.52936	13.53617	0.7147979	0.5079339	0.5619875	0.05405359
0.000186	0.00023	36.39134	37.29478	0.9227083	0.8114087	0.8836709	0.07226221
0.006028	0.00023	36.40782	22.19817	0.0815756	0.5772014	0.7445852	0.1673838
0.027324	0.02675	15.72718	15.63448	0.079982	0.1533752	0.2456715	0.09229624
0.002191	0.00071	31.4718	26.5944	0.2930818	0.1300808	0.279123	0.1490423
0.001659	0.00025	35.98219	27.80279	0.6071975	0.6826617	0.5627925	-0.1198692
0.022163	0.02615	15.8248	16.54377	0.6672334	0.8091562	0.6711678	-0.1379884
0.02114	0.0017	27.69825	16.74894	0.8101833	0.6935276	0.7606851	0.06715749
0.000539	0.00108	29.67142	32.68426	0.1013368	0.02264	0.089081	0.06644101
0.026377	0.0243	16.14406	15.78782	0.853032	0.7569738	0.8509214	0.09394763
0.004027	0.00028	35.52937	23.95046	0.1787118	0.0683392	0.1338941	0.06555497
0.02271	0.00013	38.70064	16.43784	0.3232432	0.656457	0.7291723	0.07271528
0.023333	0.03592	14.4471	16.32038	0.8428631	0.7907392	0.8516542	0.06091493
0.02763	0.00279	25.5369	15.58615	0.1744247	0.345021	0.4379148	0.09289381
0.008859	0.02328	16.32942	20.52629	0.8105242	0.8657144	0.7680933	-0.09762105
0.013836	0.00782	21.06912	18.58982	0.7904761	0.6892017	0.779916	0.0907144
0.001925	0.04686	13.29197	27.15493	0.9676698	0.9068344	0.7684872	-0.1383472
0.003257	0.0016	27.95265	24.87228	0.8519071	0.7923827	0.8428186	0.05043597
0.030444	0.02208	16.55943	15.16504	0.7667634	0.8279809	0.7755688	-0.05241208
0.001898	7.02E-06	51.53512	27.21679	0.8920519	0.7931356	0.8782302	0.08509458
0.002329	8.48E-05	40.71448	26.32783	0.8631014	0.7052553	0.6125675	-0.09268773
0.00665	0.00557	22.53766	21.77168	0.6512972	0.4458806	0.2900146	-0.155866
0.004567	0.00459	23.37944	23.4038	0.2089469	0.1370487	0.216481	0.07943231
0.039105	0.035	14.55921	14.07769	0.8143888	0.646962	0.4900018	-0.1569603

0.028164	1.58E-05	48.02596	15.50299	0.8933834	0.8020617	0.7519867	-0.05007491
0.000113	8.24E-05	40.83966	39.45222	0.8566979	0.9210222	0.856626	-0.06439614
2.27E-05	0.00035	34.53582	46.44275	0.5495586	0.7284361	0.8268592	0.09842306
0.012012	0.00219	26.59341	19.20387	0.1831014	0.0818762	0.1348081	0.05293197
0.000503	0.00114	29.42888	32.9855	0.8773204	0.8030078	0.8807592	0.07775138
0.00409	0.00473	23.25166	23.88306	0.8669682	0.8162838	0.8726782	0.05639433
0.004443	0.00398	24.00252	23.52323	0.6694617	0.7838882	0.6900636	-0.09382458
0.041114	0.0051	22.92006	13.86007	0.0829394	0.225668	0.3310389	0.1053709
0.047691	0.00191	27.1994	13.21561	0.102668	0.4833159	0.6374724	0.1541565
0.019933	0.01857	17.313	17.00436	0.5716838	0.6349388	0.575844	-0.05909475
0.047683	0.02068	16.84363	13.2164	0.8532373	0.6893216	0.8069245	0.1176028
0.038877	0.00151	28.20806	14.10305	0.8288077	0.7413725	0.6746753	-0.06669727
0.02691	0.00762	21.18082	15.70084	0.7053766	0.6284842	0.5612876	-0.06719655
0.014248	0.01584	18.0031	18.46247	0.5417649	0.5957934	0.5413058	-0.05448763
9.61E-05	0.01218	19.14464	40.17225	0.591134	0.6441413	0.5213444	-0.1227969
0.000363	0.00048	33.19406	34.39888	0.8672567	0.9375977	0.8726143	-0.06498334
0.02362	0.02691	15.70119	16.26716	0.606291	0.6783769	0.6068289	-0.07154796
0.002612	0.01409	18.51014	25.83	0.6222678	0.6766208	0.587843	-0.08877783
9.72E-05	7.70E-05	41.13639	40.12218	0.475355	0.6241934	0.4735152	-0.1506781
0.016151	0.02974	15.26674	17.91809	0.7484466	0.8212908	0.7328423	-0.08844846
0.015752	0.01503	18.23034	18.02659	0.6263241	0.4428445	0.626917	0.1840726
0.027205	0.02001	16.98738	15.65357	0.7722868	0.7060208	0.7693202	0.06329931
0.015395	0.01666	17.78306	18.12628	0.8621036	0.7549984	0.6566194	-0.0983791
0.024534	0.01604	17.94726	16.10237	0.6679677	0.779099	0.6782082	-0.1008909
0.009151	0.00542	22.65772	20.38508	0.1781044	0.1212338	0.1826097	0.06137594
0.000861	0.00077	31.1123	30.64892	0.8099505	0.7478306	0.8102778	0.06244716
0.011403	0.02201	16.57395	19.42983	0.7513793	0.8024653	0.7425326	-0.0599327
0.00777	0.0195	17.09877	21.09583	0.8698546	0.8190356	0.8849311	0.06589551
0.027974	9.50E-08	70.22212	15.5324	0.2151328	0.7460151	0.8232918	0.07727682
0.005609	0.00404	23.94027	22.51127	0.8927665	0.7673211	0.8833315	0.1160105
0.009819	0.02569	15.90291	20.07932	0.9057652	0.8356609	0.7552089	-0.080452
0.012849	0.00272	25.66125	18.91145	0.4199292	0.6223096	0.5022188	-0.1200908
0.004226	0.01179	19.28539	23.74034	0.5868998	0.6443973	0.5746174	-0.0697799
0.046936	0.01606	17.94323	13.2849	0.8360267	0.7661913	0.8182041	0.05201281
0.006759	0.0134	18.72895	21.70139	0.6080672	0.7782766	0.592792	-0.1854846
0.001171	0.00236	26.27423	29.31621	0.7575812	0.820812	0.7474811	-0.07333087
0.003721	0.0306	15.14243	24.29293	0.6280022	0.6879824	0.5909543	-0.09702811
0.003956	0.00418	23.78629	24.02732	0.1538307	0.0978332	0.1572149	0.05938166
0.003037	0.00046	33.36663	25.17541	0.0865553	0.4037863	0.5784807	0.1746943
0.009862	0.00747	21.269	20.06016	0.0296965	0.2047783	0.3388413	0.134063
3.09E-06	0.00012	39.2018	55.10351	0.5358258	0.6321907	0.4738351	-0.1583556
0.012071	0.00519	22.85003	19.18243	0.2482775	0.1677081	0.2317097	0.06400162
0.001277	0.00018	37.38565	28.93873	0.4262118	0.7022059	0.5018149	-0.200391
0.018421	0.00952	20.21218	17.34685	0.3131514	0.2165899	0.2908345	0.07424465
2.45E-05	0.00028	35.54433	46.1143	0.7103212	0.7742988	0.6892936	-0.08500525
0.000239	0.00033	34.83266	36.22428	0.6215502	0.7290784	0.6239866	-0.1050918
0.02403	0.00155	28.09306	16.19254	0.8744198	0.7227218	0.6191081	-0.1036137
0.00636	0.00611	22.13793	21.9654	0.7852088	0.8781551	0.8005602	-0.07759484
0.019306	0.00028	35.52145	17.14311	0.1072514	0.4227282	0.5323606	0.1096325
0.002137	0.00797	20.98537	26.70205	0.1242758	0.0658728	0.1332141	0.0673413
0.004459	0.04392	13.57328	23.50768	0.8280569	0.7114068	0.5151823	-0.1962244
0.001043	0.00924	20.34139	29.81773	0.7384091	0.9402418	0.8247777	-0.1154641
0.006538	0.0033	24.8196	21.8456	0.1680872	0.2313188	0.1763999	-0.05491894
0.01682	0.01602	17.9536	17.74177	0.8406383	0.7285516	0.8416552	0.1131036



0.036853	0.012	19.20709	14.33532	0.7905325	0.6993549	0.7665933	0.06723841
0.00597	0.01604	17.94829	22.24001	0.4997697	0.6546142	0.4599011	-0.1947132
0.035425	1.31E-05	48.81246	14.50688	0.2551074	0.688438	0.7601097	0.07167171
0.049009	0.02752	15.60377	13.09727	0.9018824	0.8251813	0.8915343	0.06635296
0.02173	0.01559	18.07052	16.62943	0.2949892	0.2152633	0.2830136	0.0677503
0.021222	6.43E-05	41.91655	16.73215	0.0623438	0.2244927	0.307973	0.08348023
0.038558	0.01693	17.714	14.13889	0.3287792	0.2041316	0.29891	0.09477834
0.023673	0.00048	33.22414	16.25753	0.8274557	0.6465126	0.7203016	0.0737889
0.04219	3.15E-08	75.01977	13.74788	0.9035173	0.7121979	0.6185324	-0.09366553
0.045811	0.00984	20.06898	13.39033	0.7917617	0.7008676	0.6291342	-0.07173335
0.0226	0.00328	24.83892	16.45889	0.8484796	0.6557671	0.7733939	0.1176269
0.015082	0.00639	21.94227	18.21552	0.05775	0.1339306	0.0710459	-0.06288475
0.001134	0.0019	27.20611	29.45497	0.2124647	0.1531926	0.2157996	0.06260703
0.027271	0.01918	17.17206	15.64292	0.0689757	0.1654108	0.3127569	0.1473461
0.034489	0.02101	16.77508	14.62313	0.8656013	0.7091047	0.8404352	0.1313305
0.006172	0.01755	17.55703	22.09548	0.6660296	0.7541882	0.6513756	-0.1028126
0.000121	2.37E-05	46.26005	39.15574	0.1250449	0.0643003	0.1159092	0.05160894
0.006171	0.0007	31.576	22.09668	0.4473996	0.2237547	0.3758162	0.1520615
0.007924	0.00659	21.8123	21.01041	0.7668867	0.6108715	0.7502023	0.1393308
0.04047	0.00011	39.67822	13.92866	0.8600004	0.6718599	0.5784333	-0.09342661
0.000113	0.00054	32.68024	39.48274	0.1539513	0.0734562	0.1571773	0.08372113
0.001299	0.00134	28.71744	28.86325	0.1686043	0.2915483	0.1883018	-0.1032465
0.01642	0.02884	15.39989	17.84633	0.5096406	0.5601654	0.5017642	-0.05840118
0.001142	0.00188	27.26091	29.425	0.5076088	0.6694188	0.5029139	-0.166505
0.041162	0.00351	24.54284	13.85503	0.7921423	0.7187532	0.7698868	0.05113354
0.009168	0.00561	22.51343	20.37743	0.5105148	0.3944508	0.4888091	0.09435821
0.042601	0.03055	15.14985	13.70578	0.1110162	0.3321927	0.5152063	0.1830136
0.024892	0.00602	22.20562	16.03934	0.898579	0.8126311	0.874611	0.06197993
2.54E-05	0.00028	35.46898	45.95797	0.5991867	0.7271081	0.5982339	-0.1288741
0.026779	0.00247	26.07434	15.72204	0.9070585	0.8236561	0.8829786	0.05932248
0.006223	0.00902	20.44965	22.05989	0.5206914	0.7046909	0.5020065	-0.2026845
0.03527	0.00171	27.6794	14.52598	0.8265636	0.6402268	0.7313225	0.09109565
0.03058	0.03403	14.68148	15.14563	0.8698322	0.6707348	0.8775391	0.2068043
0.014551	0.00576	22.398	18.37105	0.8136705	0.6071825	0.7726018	0.1654193
0.00048	0.00156	28.07169	33.18591	0.220044	0.142424	0.2319026	0.08947866
0.000397	0.004	23.98452	34.01724	0.7823029	0.8737265	0.734632	-0.1390945
0.002037	0.00036	34.41725	26.9108	0.8563812	0.8054502	0.8568367	0.05138648
0.042565	0.01123	19.49574	13.70947	0.8558279	0.7799887	0.8329093	0.05292064
0.011373	0.00591	22.28462	19.44126	0.8268691	0.6887215	0.5651214	-0.1236002
0.020186	0.00651	21.86536	16.94956	0.8499538	0.7229043	0.6005862	-0.122318
0.048108	0.03869	14.12396	13.17778	0.244284	0.1333523	0.2327759	0.09942363
0.034562	0.01196	19.22144	14.61402	0.7552058	0.6225235	0.7199313	0.09740782
0.005346	0.00389	24.10137	22.71944	0.7974408	0.7130037	0.7908787	0.07787495
0.010482	0.00512	22.9053	19.79564	0.7871454	0.6201692	0.7468699	0.1267008
0.02325	0.00337	24.72751	16.33568	0.6742581	0.5146513	0.5734448	0.05879354
0.002819	0.00121	29.1645	25.49982	0.1187617	0.2182239	0.3229409	0.104717
0.041858	0.00027	35.65754	13.7822	0.4500073	0.6265268	0.6796044	0.05307762
0.048589	0.03733	14.27897	13.13462	0.7834612	0.6981372	0.5873528	-0.1107844
0.028708	0.00359	24.45369	15.41998	0.930933	0.8481226	0.8991554	0.05103286
0.006249	7.06E-06	51.50971	22.04156	0.8809639	0.9518376	0.8942561	-0.05758155
0.003071	0.00595	22.25242	25.127	0.8726802	0.9330208	0.8708456	-0.06217523
0.02794	0.02502	16.0179	15.53773	0.7881544	0.7204401	0.7815709	0.06113077
0.018965	0.00015	38.28581	17.22054	0.8253678	0.6909052	0.7421913	0.05128606
0.00328	7.91E-05	41.02035	24.84175	0.7650499	0.8730981	0.7740772	-0.0990209

5.35E-07	4.80E-06	53.18637	62.71775	0.4904434	0.5945033	0.5183709	-0.07613241
0.005398	0.00299	25.23658	22.6776	0.8620918	0.9304821	0.8721524	-0.0583297
0.037551	0.00435	23.61451	14.25382	0.7668157	0.6428489	0.7182103	0.07536134
0.047716	0.00065	31.84051	13.21339	0.8594961	0.6077189	0.5176775	-0.09004136
0.001504	0.00352	24.53191	28.22846	0.7053978	0.7650456	0.6920909	-0.07295472
0.037306	0.03628	14.40311	14.28222	0.7824157	0.8612611	0.7833354	-0.07792572
0.037098	0.0097	20.13021	14.30648	0.8431335	0.6522581	0.7733327	0.1210746
0.007874	0.02033	16.91858	21.03825	0.5615177	0.6992021	0.7943174	0.09511536
0.04481	0.04628	13.34592	13.48621	0.3989352	0.5686401	0.6504124	0.08177244
0.025218	0.00065	31.85973	15.98287	0.179519	0.3258206	0.2556611	-0.07015949
0.034125	0.02904	15.37021	14.66932	0.8394542	0.9073394	0.8452062	-0.06213316
0.040144	0.00871	20.59886	13.96382	0.8772038	0.7003192	0.5910462	-0.1092731
0.007825	0.00473	23.25537	21.06509	0.5476724	0.6077265	0.5418777	-0.06584886
0.027762	0.01849	17.33163	15.56551	0.8937021	0.8195288	0.8841905	0.06466174
0.003645	0.001	30.01927	24.38352	0.8031432	0.7298754	0.7983342	0.06845877
1.38E-06	9.39E-07	60.27155	58.59543	0.728617	0.8796238	0.7311597	-0.148464
0.00193	0.00311	25.07595	27.14472	0.2938046	0.1835392	0.2729752	0.08943594
0.013772	0.03195	14.95587	18.60991	0.6726128	0.8024177	0.637616	-0.1648017
0.038995	0.02712	15.66648	14.0899	0.855871	0.795656	0.8492733	0.05361728
0.000222	0.00135	28.68621	36.5298	0.7565068	0.8278691	0.7278821	-0.09998688
0.009341	0.0127	18.96295	20.29614	0.2084757	0.316345	0.4062865	0.08994147
0.007573	0.00837	20.77492	21.20751	0.8782611	0.7909993	0.8766797	0.08568044
0.014095	0.01476	18.31003	18.50942	0.1270127	0.0703041	0.1240678	0.05376371
0.009226	0.00988	20.05433	20.34997	0.5222181	0.6400216	0.5233483	-0.1166733
0.017375	0.01362	18.65812	17.60066	0.9269277	0.8539488	0.9167668	0.06281805
0.000451	0.00013	38.9082	33.45621	0.7184666	0.8839069	0.7565299	-0.127377
0.009966	0.01658	17.80382	20.015	0.6042328	0.6958061	0.596004	-0.09980214
8.27E-05	0.00013	38.7115	40.82564	0.159547	0.0802945	0.1552853	0.07499074
0.019913	0.00679	21.6786	17.00863	0.869473	0.6946391	0.539514	-0.1551251
0.039961	0.00889	20.50887	13.98361	0.7648152	0.5983216	0.7138683	0.1155467
0.001	0.00144	28.42898	30.00036	0.769753	0.9027825	0.786131	-0.1166514
0.002569	0.01277	18.93695	25.90192	0.5067476	0.4519998	0.3423095	-0.1096903
0.025954	2.38E-05	46.23046	15.85789	0.5129349	0.5924499	0.6598603	0.06741037
0.008951	0.00802	20.95563	20.48141	0.1170598	0.0552054	0.1106968	0.05549142
0.028316	0.02776	15.56532	15.47964	0.815227	0.9278312	0.8121888	-0.1156424
0.032834	0.01586	17.99777	14.83675	0.8740041	0.7694707	0.8497464	0.08027574
0.00307	0.00297	25.27767	25.12884	0.8694808	0.8166962	0.8682748	0.05157861
0.006106	0.0012	29.20873	22.14262	0.1914939	0.0959769	0.1552502	0.05927334
0.00386	0.00388	24.11621	24.13369	0.1750586	0.1004507	0.1693534	0.06890273
0.016293	0.00074	31.31411	17.88012	0.9053184	0.8184922	0.7339145	-0.08457771
0.042108	0.00245	26.10022	13.75639	0.1631973	0.4169623	0.2978245	-0.1191378
8.97E-07	2.57E-07	65.89348	60.47391	0.1554513	0.0401003	0.1493905	0.1092902
0.016752	0.00781	21.07558	17.75922	0.8852764	0.7805116	0.8602739	0.07976233
0.001114	0.00085	30.70195	29.53242	0.7975594	0.6719196	0.7899826	0.118063
0.000493	0.00203	26.92328	33.07213	0.6713663	0.742784	0.659812	-0.08297203
0.005109	0.0073	21.36663	22.9166	0.8513945	0.9340164	0.8513541	-0.08266227
0.000564	0.00049	33.06267	32.48782	0.1268899	0.2399432	0.3838976	0.1439544
0.021079	1.66E-05	47.79906	16.76149	0.2647674	0.6706316	0.5131795	-0.1574521
0.000167	5.84E-05	42.33756	37.78042	0.2537005	0.5232205	0.5788829	0.05566233
0.021961	0.01902	17.20696	16.58351	0.8889641	0.7812787	0.6779354	-0.1033432
0.019493	0.00537	22.70334	17.10118	0.6061078	0.7274444	0.6461919	-0.08125244
0.000197	0.00021	36.68644	37.05179	0.8508711	0.7344961	0.8261082	0.09161206
0.014272	0.02643	15.77971	18.4551	0.670552	0.5061827	0.7009405	0.1947579
0.037801	0.03202	14.94624	14.22501	0.8315406	0.761088	0.8281277	0.06703973

0.002649	0.00608	22.16291	25.76969	0.6042382	0.7086869	0.5907823	-0.1179046
6.67E-05	6.50E-05	41.872	41.75682	0.7568088	0.8154684	0.741693	-0.07377539
0.041356	5.27E-06	52.7797	13.83458	0.9162135	0.8037007	0.681766	-0.1219347
0.002903	0.01929	17.14601	25.37186	0.7046137	0.7657179	0.6716706	-0.09404722
0.013709	0.00933	20.30284	18.62985	0.8232915	0.9025183	0.825786	-0.07673235
0.006829	0.00799	20.9737	21.65618	0.8216596	0.6903089	0.5598267	-0.1304822
0.035376	0.00183	27.38722	14.51287	0.7931055	0.59935	0.4545872	-0.1447629
0.027592	3.44E-05	44.6405	15.59211	0.8012763	0.6257358	0.6987882	0.07305235
0.017251	0.01945	17.1105	17.63181	0.3333961	0.2082887	0.3255219	0.1172332
0.048918	0.01601	17.95744	13.10529	0.5314704	0.4405967	0.5103483	0.06975156
0.008864	0.01126	19.4861	20.52394	0.8467076	0.7842398	0.6756133	-0.1086265
0.004211	0.00532	22.73845	23.75566	0.8718181	0.937139	0.864838	-0.07230102
0.002446	0.00516	22.87556	26.11545	0.6795967	0.7880356	0.6426986	-0.1453369
0.014528	2.23E-06	56.50766	18.37799	0.8668767	0.6955593	0.6218038	-0.07375551
0.019218	2.30E-05	46.38914	17.16301	0.8560828	0.6708191	0.5980017	-0.07281749
0.017888	0.02261	16.45632	17.47444	0.8417036	0.7740967	0.8477815	0.07368478
0.002346	0.00201	26.95762	26.29753	0.468567	0.5840291	0.4675874	-0.1164417
0.043486	0.01923	17.15978	13.61653	0.8641473	0.7222646	0.8210424	0.09877772
0.000107	0.00011	39.67591	39.72267	0.2891028	0.1898985	0.2850968	0.09519828
0.00516	0.00567	22.46179	22.87324	0.7130932	0.8379356	0.7233768	-0.1145589
0.00866	1.30E-05	48.8589	20.62475	0.8648968	0.6828459	0.7570062	0.07416026
0.049955	0.01026	19.88648	13.01425	0.8431036	0.7575539	0.68545	-0.07210395
0.049352	0.03683	14.33843	13.06694	0.0619645	0.1577356	0.0699324	-0.08780324
0.001608	0.00035	34.56839	27.93763	0.804812	0.7116625	0.7852638	0.07360133
0.022275	0.00269	25.70907	16.52189	0.7164164	0.622429	0.687511	0.06508203
0.03153	0.01167	19.33077	15.01275	0.354645	0.2003333	0.3065496	0.1062163
0.004334	0.00268	25.71841	23.63068	0.7258126	0.8103328	0.733527	-0.07680574
0.005772	0.0007	31.54953	22.38653	0.8703579	0.7880044	0.8431855	0.05518117
0.048549	0.04785	13.20147	13.13817	0.8193297	0.7181479	0.6173876	-0.1007603
0.021751	0.0279	15.5443	16.62515	0.3651173	0.4589382	0.3523851	-0.1065531
0.009954	0.0173	17.61939	20.02007	0.8355558	0.7733277	0.8376942	0.06436653
0.003713	0.00412	23.8523	24.30295	0.8207595	0.7596129	0.8158285	0.05621558
0.028736	0.00192	27.16916	15.41576	0.2446906	0.4178603	0.5091031	0.09124277
0.003288	0.00223	26.51233	24.83003	0.3192556	0.2121438	0.3075239	0.09538013
0.018513	0.02892	15.38753	17.32517	0.7781766	0.847964	0.771226	-0.07673794
0.015505	0.01781	17.49335	18.09521	0.17935	0.0985386	0.179477	0.0809384
0.000876	0.00954	20.20294	30.57528	0.7974986	0.9153113	0.7921271	-0.1231842
0.001385	0.00326	24.86305	28.58423	0.7238196	0.6270918	0.5317102	-0.09538158
0.009783	0.00049	33.06764	20.09511	0.2510083	0.5884276	0.6997762	0.1113485
0.020642	0.01416	18.48996	16.85242	0.8598124	0.791049	0.6935196	-0.0975294
0.008958	0.03172	14.98688	20.47801	0.2250481	0.1348878	0.2503301	0.1154424
0.000969	0.00132	28.78307	30.13567	0.7796322	0.7250012	0.7825466	0.05754552
0.020312	0.01885	17.24786	16.92251	0.4152294	0.5298106	0.4159053	-0.1139053
0.013196	0.00685	21.64067	18.79561	0.8981125	0.8193186	0.8767373	0.05741873
0.009625	0.00899	20.46441	20.16594	0.8793554	0.9613218	0.8750098	-0.08631201
0.039078	0.03495	14.56551	14.08062	0.8697067	0.9227616	0.8723459	-0.0504157
0.013904	0.01604	17.94844	18.56874	0.6920564	0.7568655	0.695141	-0.06172444
0.012153	0.00014	38.57161	19.15323	0.7263017	0.6058226	0.5317976	-0.07402493
0.00032	0.0027	25.68831	34.94909	0.6038336	0.6561868	0.5735831	-0.08260368
0.040935	0.01919	17.17002	13.87905	0.6571197	0.520712	0.6135817	0.09286966
0.001124	0.00324	24.90111	29.4922	0.912546	0.7724027	0.5787359	-0.1936668
0.017791	0.0154	18.1253	17.498	0.6250537	0.739933	0.620549	-0.119384
0.032302	0.01609	17.93429	14.9077	0.4491259	0.3766506	0.4361538	0.05950321
0.003581	0.00275	25.61226	24.4602	0.7776619	0.8519698	0.7805932	-0.07137661

0.033071	0.00639	21.94297	14.80552	0.8183618	0.6446414	0.7534479	0.1088065
0.032178	0.00566	22.47471	14.92443	0.8884509	0.7108982	0.6092623	-0.1016359
0.029612	0.03675	14.34778	15.28531	0.8469854	0.9011214	0.8162297	-0.08489174
0.000833	1.22E-05	49.12904	30.79403	0.0795439	0.2221348	0.3474623	0.1253276
0.035261	0.0305	15.15771	14.52702	0.0666036	0.1909932	0.0712506	-0.1197426
0.00441	0.0141	18.50815	23.55572	0.9055014	0.7725026	0.6191843	-0.1533183
0.00161	0.00045	33.50609	27.93103	0.1248865	0.0599889	0.1135832	0.05359431
0.004185	0.00011	39.44749	23.78255	0.1395364	0.0677895	0.1315652	0.06377573
0.000883	0.0013	28.86055	30.54256	0.783005	0.8412292	0.7789003	-0.0623289
0.018654	0.01827	17.38329	17.29231	0.7443536	0.8242678	0.7513058	-0.07296199
0.022527	0.03756	14.25327	16.47299	0.9374163	0.8686564	0.9456677	0.07701134
0.012886	0.00926	20.33327	18.89895	0.5289893	0.5899713	0.5330322	-0.05693906
0.027233	0.00061	32.13901	15.64898	0.0326537	0.1078689	0.1923866	0.08451764
0.022085	0.01863	17.29893	16.559	0.8379525	0.8995501	0.8366995	-0.06285059
0.003798	0.0031	25.0827	24.20491	0.2451816	0.1439408	0.2518168	0.107876
0.002326	0.00927	20.32826	26.33424	0.8926913	0.8358449	0.8907448	0.05489988
0.015886	8.58E-06	50.66589	17.98977	0.8652108	0.703635	0.6323724	-0.07126259
0.011463	0.00222	26.52835	19.40691	0.8356662	0.708777	0.6049379	-0.1038392
0.043448	0.00559	22.52911	13.62029	0.8070925	0.6064019	0.7027586	0.09635668
0.033661	0.04918	13.08203	14.72879	0.7876938	0.7004247	0.803048	0.1026232
0.031488	0.00015	38.18256	15.01855	0.8122644	0.6899368	0.6147524	-0.07518446
0.00082	0.00236	26.27707	30.86333	0.7325572	0.8040416	0.7149134	-0.08912823
0.021335	0.01606	17.94333	16.70903	0.5746768	0.6393831	0.5800229	-0.05936025
0.000106	2.95E-05	45.29501	39.74633	0.6957397	0.813814	0.6827756	-0.1310385
0.003995	0.0069	21.60992	23.98443	0.1101455	0.2209641	0.0878547	-0.1331094
2.09E-06	1.62E-06	57.91299	56.79269	0.574581	0.7815804	0.5991292	-0.1824512
0.00319	0.00085	30.70994	24.96214	0.6938244	0.8229216	0.7004293	-0.1224923
0.011896	0.00044	33.56336	19.24595	0.8837354	0.7719767	0.6978116	-0.0741651
0.000298	2.55E-05	45.94201	35.25901	0.172955	0.0770146	0.1313226	0.05430796
0.008947	0.00771	21.12667	20.48324	0.430362	0.1448431	0.4132283	0.2683852
0.00012	0.00022	36.56569	39.22548	0.2664181	0.1713092	0.2765177	0.1052085
0.015381	0.00447	23.49801	18.13028	0.908136	0.7568228	0.8552678	0.09844499
0.000348	0.00413	23.83559	34.57804	0.91215	0.8614306	0.9250677	0.063637
0.007365	0.02155	16.66505	21.32828	0.6609248	0.7118611	0.6506215	-0.06123968
0.00454	0.00037	34.27391	23.42986	0.5273076	0.61172	0.5168901	-0.09482986
0.00013	0.00095	30.22963	38.85253	0.5397731	0.5910478	0.5289941	-0.06205376
0.000245	0.00028	35.57784	36.10961	0.6919004	0.8106284	0.690612	-0.1200163
0.0107	0.00606	22.17782	19.70622	0.8154545	0.5798132	0.4201488	-0.1596645
0.026073	0.01087	19.63581	15.83807	0.8989187	0.8248864	0.8849168	0.06003047
0.015421	0.00186	27.30447	18.11876	0.6911898	0.848533	0.7700738	-0.07845918
0.006072	0.00304	25.17642	22.16677	0.6862825	0.8005138	0.7047194	-0.09579441
0.029765	6.82E-05	41.66053	15.26299	0.6933567	0.5179924	0.5730797	0.05508738
9.93E-05	5.70E-05	42.44037	40.02996	0.249946	0.1036327	0.2356397	0.1320071
0.020614	0.01586	17.99666	16.85834	0.8449004	0.761058	0.8382398	0.07718182
0.049477	0.02882	15.40329	13.05594	0.8474835	0.7751538	0.8338241	0.05867037
0.038916	0.03114	15.06687	14.09877	0.839617	0.7803079	0.8364767	0.05616878
0.000988	0.00087	30.59187	30.05178	0.5030738	0.7445971	0.5456387	-0.1989584
0.013541	0.00834	20.78944	18.68356	0.6682092	0.8357514	0.6934523	-0.1422991
0.001566	0.00464	23.33907	28.0518	0.8380551	0.9040503	0.8315969	-0.07245347
0.022155	0.00937	20.28411	16.54531	0.6245108	0.7214583	0.6432369	-0.07822136
0.039823	0.00048	33.18497	13.99871	0.6827949	0.3803034	0.2784121	-0.1018913
0.009016	0.00118	29.29709	20.44982	0.8762829	0.7831132	0.8470242	0.06391097
0.049675	2.48E-06	56.0579	13.0386	0.6332932	0.3872907	0.3360854	-0.05120527
0.012266	0.00021	36.78635	19.113	0.3894654	0.6892934	0.5839041	-0.1053893

0.040505	0.01012	19.94833	13.92496	0.7958791	0.6699161	0.7456677	0.07575161
0.01638	0.01066	19.72158	17.85699	0.1334665	0.200477	0.3244277	0.1239507
0.049492	0.01337	18.73714	13.05461	0.8932514	0.8053313	0.8619478	0.05661643
0.002884	0.00259	25.86442	25.40069	0.1581666	0.0951601	0.1700467	0.07488655
0.000215	0.00036	34.48182	36.66873	0.14407	0.0824079	0.1353265	0.05291864
0.023603	0.00724	21.40277	16.27028	0.1472721	0.2361514	0.168016	-0.06813544
0.003191	0.00347	24.59441	24.96008	0.8629257	0.9325943	0.8611686	-0.07142573
3.90E-05	0.00279	25.53938	44.09365	0.7307646	0.8123584	0.6488861	-0.1634722
0.041192	0.00124	29.06068	13.85188	0.3917175	0.6522987	0.7667932	0.1144945
0.008706	0.00257	25.89653	20.60167	0.9138094	0.8084353	0.8880008	0.0795655
0.015607	0.01464	18.34581	18.06692	0.7262028	0.831369	0.7344725	-0.09689647
0.009377	2.13E-05	46.72561	20.27934	0.8613702	0.7170809	0.581472	-0.1356089
0.036489	2.51E-06	56.00092	14.37842	0.8840458	0.6839622	0.6046562	-0.07930606
0.030369	0.01559	18.07031	15.17566	0.849369	0.618315	0.450395	-0.16792
0.003185	0.01641	17.85009	24.96947	0.1307631	0.2931901	0.4925507	0.1993606
0.04041	3.70E-06	54.31567	13.93511	0.2459481	0.5445228	0.6005893	0.05606658
0.044983	0.00112	29.50362	13.46955	0.8868236	0.7495301	0.6690279	-0.0805022
0.00151	0.00046	33.38254	28.20936	0.8644753	0.9367973	0.8763902	-0.06040706
0.026729	0.00143	28.44283	15.73018	0.8654407	0.7459164	0.805495	0.05957865
0.002316	0.0015	28.24733	26.35318	0.8690711	0.7092854	0.5576331	-0.1516523
0.040822	0.00882	20.54452	13.89105	0.58824	0.7376239	0.8378856	0.1002617
0.003493	0.00023	36.35381	24.56784	0.1252462	0.0460995	0.1032553	0.05715582
0.007143	0.00873	20.58828	21.46107	0.8332244	0.7769692	0.8359495	0.05898028
0.001267	0.00032	35.00996	28.9733	0.8480395	0.9601147	0.8804497	-0.07966495
0.025732	0.02338	16.31132	15.89519	0.7402823	0.8195931	0.7416972	-0.07789592
0.004654	3.58E-05	44.46601	23.32177	0.2618541	0.6910019	0.7900078	0.09900596
0.045974	0.00209	26.79757	13.37492	0.1330294	0.5251325	0.6810956	0.1559631
0.023867	0.00618	22.09021	16.22205	0.8951516	0.7479337	0.6537053	-0.09422843
0.032829	0.01211	19.16916	14.83748	0.7291504	0.857103	0.7711784	-0.08592469
0.024758	0.03981	14.0001	16.06289	0.7940321	0.7297592	0.8053511	0.07559197
0.047513	0.00507	22.94888	13.23183	0.8162118	0.7048722	0.6470057	-0.05786653
0.045065	0.03428	14.64956	13.46164	0.7056132	0.7847605	0.7152047	-0.06955579
0.027067	0.00968	20.13908	15.67558	0.7310483	0.5954294	0.6873419	0.09191248
0.013361	0.00204	26.90022	18.74146	0.7793618	0.6994172	0.7551021	0.05568483
0.001793	0.00013	39.0243	27.46405	0.1522103	0.0898734	0.1449412	0.0550678
0.003059	0.0027	25.67931	25.14448	0.1180464	0.0473893	0.1161944	0.06880507
0.04066	0.03134	15.03874	13.90828	0.9310735	0.8207347	0.9167019	0.09596717
0.00504	0.00124	29.05412	22.97574	0.1822374	0.0763008	0.1596301	0.08332936
0.034707	0.01744	17.58383	14.59582	0.8723834	0.7689314	0.8462359	0.07730445
0.000911	0.00298	25.25191	30.40673	0.4566999	0.5599059	0.4383337	-0.1215722
0.015894	0.00089	30.52013	17.98759	0.108792	0.3949242	0.2452223	-0.149702
0.046516	0.0002	37.01465	13.32399	0.8041939	0.5658911	0.4958234	-0.07006762
0.009119	0.0092	20.3599	20.40043	0.5537667	0.643611	0.5621593	-0.08145165
0.015179	0.00615	22.10786	18.18753	0.7880672	0.6884596	0.7659877	0.07752806
0.002259	0.00104	29.81738	26.46081	0.8821585	0.7832643	0.8685095	0.08524521
0.013562	0.04546	13.4238	18.67685	0.4783212	0.5476004	0.4494594	-0.09814107
0.045419	0.04111	13.86055	13.4276	0.2645232	0.1999878	0.2625201	0.06253227
0.009873	0.00013	38.74767	20.05543	0.9057779	0.8028461	0.8691956	0.06634948
0.017402	0.00109	29.62939	17.59389	0.9345601	0.778082	0.7091423	-0.06893963
0.014139	0.00019	37.11107	18.49576	0.8186291	0.6196412	0.5338997	-0.08574142
0.000872	0.00047	33.25074	30.59383	0.2179801	0.1312692	0.1922821	0.06101285
7.67E-05	1.43E-06	58.45714	41.15471	0.2001217	0.076491	0.1728388	0.0963478
0.008182	0.01701	17.69395	20.8713	0.5814652	0.6747707	0.5772979	-0.09747286
0.017145	0.01305	18.84538	17.65867	0.6889721	0.6190251	0.6743234	0.05529842

0.025568	0.00765	21.16506	15.92311	0.8059164	0.8756741	0.8239912	-0.05168298
0.000697	0.00257	25.89548	31.5672	0.8490199	0.9154587	0.830436	-0.08502271
0.028847	0.03262	14.86545	15.39898	0.9126308	0.8455185	0.7698227	-0.07569579
0.002769	0.00028	35.45274	25.57716	0.7490743	0.867259	0.7824162	-0.08484282
0.002519	0.00466	23.3165	25.98716	0.0877906	0.1664661	0.0718795	-0.09458653
1.40E-05	8.80E-05	40.55574	48.52453	0.1562638	0.0312519	0.1310725	0.09982063
0.01513	0.00114	29.43663	18.20156	0.7754289	0.594725	0.6998175	0.1050926
0.001707	0.00178	27.48407	27.67675	0.2083917	0.1490712	0.2105264	0.06145528
0.011802	0.00439	23.57088	19.28046	0.4561166	0.3443968	0.4395471	0.09515032
0.030927	0.02714	15.66356	15.09662	0.8436384	0.909223	0.8494306	-0.05979243
2.76E-05	5.42E-05	42.65666	45.58963	0.3248901	0.1482514	0.3042763	0.1560249
0.04051	0.03153	15.01291	13.92443	0.7157602	0.6243984	0.709267	0.08486856
0.00038	1.52E-05	48.18727	34.20171	0.8149717	0.6438539	0.5544098	-0.08944406
0.006777	0.00117	29.32531	21.68994	0.8074142	0.6883136	0.7821602	0.09384665
0.000203	0.00027	35.63731	36.9339	0.7907426	0.8805093	0.7933706	-0.08713866
0.035091	0.00082	30.86899	14.54807	0.7206345	0.4780495	0.3797325	-0.09831696
0.000612	0.00123	29.10277	32.1318	0.747281	0.8632745	0.7290793	-0.1341951
0.001905	0.00092	30.35698	27.20092	0.8309424	0.9084799	0.8410244	-0.06745548
0.035535	0.00698	21.56244	14.49346	0.8509816	0.7288923	0.8085579	0.0796655
0.03086	1.17E-05	49.32631	15.10609	0.229744	0.6623918	0.5599425	-0.1024492
0.000406	0.00041	33.91904	33.9138	0.7880593	0.8662581	0.7902682	-0.07598983
1.71E-05	3.30E-05	44.81691	47.66869	0.2167985	0.1371148	0.2159597	0.07884489
0.03969	0.00059	32.29941	14.01316	0.1340797	0.2877305	0.3383209	0.05059044
0.000181	0.00085	30.69428	37.41549	0.9038034	0.7343084	0.5828012	-0.1515072
0.005071	0.00255	25.94198	22.94942	0.2374954	0.1156444	0.2298139	0.1141695
0.001284	0.00322	24.92309	28.914	0.4976999	0.5805752	0.4955012	-0.08507402
0.000321	0.01436	18.42979	34.93742	0.7569326	0.8957809	0.7840776	-0.1117033
0.048419	0.0002	37.01245	13.14985	0.0803207	0.3474931	0.4309563	0.0834632
0.003508	1.50E-08	78.23853	24.54953	0.1021058	0.5160573	0.6110616	0.0950044
0.014197	0.00421	23.76135	18.47797	0.4085772	0.4793713	0.5296608	0.05028943
0.044389	0.03568	14.47587	13.52724	0.8911906	0.6640106	0.8707593	0.2067487
0.001227	0.00515	22.88357	29.11099	0.3054521	0.1291663	0.3236172	0.1944509
0.003663	0.00115	29.40681	24.36174	0.3775291	0.5931073	0.7410835	0.1479762
0.007357	0.00769	21.14295	21.33284	0.6320151	0.7338493	0.6397746	-0.09407479
0.027947	0.03862	14.13168	15.53664	0.7285249	0.7928718	0.717185	-0.07568672
7.01E-05	8.22E-06	50.85356	41.54211	0.2214811	0.1247458	0.1966861	0.07194035
0.004339	0.00643	21.91718	23.62639	0.8847354	0.825994	0.8908362	0.06484222
0.030422	0.0048	23.18568	15.16813	0.5586289	0.417821	0.4825258	0.06470484
0.024874	0.01337	18.73786	16.04256	0.033255	0.0975706	0.0423436	-0.05522692
0.039014	0.00077	31.11133	14.08784	0.831775	0.6669303	0.5904251	-0.07650522
0.04201	0.03541	14.50911	13.76643	0.6491622	0.7238457	0.654149	-0.06969668
0.022823	0.00143	28.43941	16.41633	0.8436764	0.7445912	0.7959838	0.0513926
0.006073	0.01694	17.7113	22.1663	0.5306798	0.606416	0.5141902	-0.09222579
0.033379	0.02149	16.67814	14.76523	0.8039172	0.8863863	0.8165827	-0.0698036
0.029771	0.00748	21.26099	15.26214	0.8424675	0.741518	0.810765	0.06924699
0.02015	0.00868	20.61687	16.95724	0.7545749	0.8623968	0.7711112	-0.0912855
0.036889	1.83E-05	47.37607	14.33105	0.8440255	0.5892071	0.5347526	-0.05445444
0.000126	0.00051	32.89788	38.98594	0.8464369	0.920981	0.83436	-0.08662096
0.029431	0.00961	20.17418	15.312	0.8194251	0.9054406	0.8454946	-0.059946
0.010425	0.01967	17.06274	19.81905	0.9092521	0.798436	0.9131458	0.1147098
0.011717	0.04683	13.29498	19.31193	0.7235557	0.8044077	0.6897066	-0.1147012
0.003379	0.01543	18.11724	24.71258	0.8781914	0.8101038	0.6837851	-0.1263187
0.000172	3.52E-05	44.53379	37.6546	0.6692792	0.7633743	0.6555543	-0.10782
0.015708	0.02055	16.87243	18.03874	0.7523543	0.8197625	0.7485362	-0.07122627

0.004175	0.00162	27.90689	23.79338	0.313393	0.1906558	0.2803326	0.08967677
0.013348	0.01499	18.24309	18.74597	0.3237688	0.1999949	0.3212435	0.1212486
0.023446	0.03639	14.39	16.29923	0.8476344	0.7799478	0.8542401	0.07429226
0.04123	0.00543	22.65029	13.84783	0.0308771	0.2778786	0.3911527	0.1132741
0.000264	0.00054	32.66283	35.77634	0.84644	0.7945478	0.8475185	0.05297071
0.013879	0.00087	30.58392	18.57655	0.0827147	0.2752395	0.3952114	0.1199718
0.010279	0.00199	27.00772	19.8805	0.7588992	0.8916287	0.8063259	-0.08530283
0.00068	0.00041	33.88039	31.67356	0.122179	0.0628413	0.1230004	0.06015906
0.048212	0.00134	28.73959	13.16843	0.7770727	0.5403609	0.4399788	-0.100382
0.013758	0.00711	21.48355	18.61451	0.8281705	0.7402242	0.8109383	0.07071412
0.000801	0.00052	32.82493	30.96312	0.1380009	0.0838582	0.1339737	0.05011552
0.009169	0.01144	19.41398	20.37699	0.7390981	0.8361106	0.746035	-0.09007557
0.038929	0.00167	27.78458	14.09726	0.2358186	0.5446622	0.4359097	-0.1087526
0.014744	1.95E-07	67.10623	18.314	0.3578472	0.7508633	0.8147908	0.06392761
0.024477	0.01525	18.1667	16.11234	0.3646193	0.2715953	0.3839177	0.1123224
0.001387	0.00342	24.65593	28.58061	0.819375	0.8727645	0.810802	-0.06196256
0.013043	0.00869	20.6111	18.84629	0.33982	0.2329593	0.3253272	0.09236791
0.000912	0.00115	29.39556	30.40022	0.6703886	0.8667485	0.671593	-0.1951555
0.002208	0.00144	28.42818	26.56003	0.3684374	0.418647	0.3477054	-0.07094164
0.039397	0.02289	16.40408	14.04539	0.9039624	0.845935	0.7917069	-0.05422813
0.031962	0.0011	29.59564	14.95368	0.9118525	0.8195331	0.7642705	-0.05526259
0.001105	2.25E-05	46.48759	29.56452	0.6286491	0.7005103	0.6185818	-0.0819284
0.031076	0.0296	15.28668	15.07578	0.8412207	0.9033229	0.8470402	-0.05628272
0.002679	0.00441	23.5537	25.71981	0.872297	0.9334689	0.8694192	-0.06404975
0.036343	0.00839	20.76202	14.39583	0.8056956	0.6669351	0.7583579	0.09142269
0.01585	1.83E-06	57.36852	17.99979	0.7506633	0.4388293	0.3879013	-0.050928
0.000131	0.00023	36.36714	38.82063	0.1897229	0.0850615	0.173038	0.08797657
0.00462	0.01867	17.28758	23.35346	0.67431	0.8127928	0.605801	-0.2069918
0.00779	0.01079	19.67118	21.08461	0.6136753	0.7206404	0.6167985	-0.103842
0.026631	0.00221	26.55245	15.74609	0.8392002	0.6168345	0.7251193	0.1082847
0.018115	0.00369	24.33463	17.41966	0.8367601	0.6374985	0.7595833	0.1220848
0.037829	0.00685	21.64322	14.22176	0.8876675	0.8032195	0.8589796	0.05576015
0.014167	0.01964	17.06936	18.48726	0.6143253	0.731552	0.6141391	-0.117413
0.012014	3.83E-05	44.16591	19.20308	0.1678275	0.0672882	0.1332029	0.06591469
0.025108	0.00459	23.37894	16.00185	0.8149493	0.6561112	0.7492127	0.09310152
0.001032	8.33E-05	40.79491	29.86274	0.8544616	0.7529374	0.836283	0.0833455
0.033194	0.03331	14.77484	14.78943	0.3385945	0.2332368	0.3363717	0.1031349
0.040113	0.00013	38.74357	13.96718	0.2215358	0.1292508	0.2253512	0.09610035
0.040875	7.82E-06	51.0678	13.88542	0.0768202	0.3174742	0.2505907	-0.06688347
0.030398	0.03247	14.88488	15.17153	0.8587033	0.9121418	0.8602318	-0.05191001
0.001524	0.0045	23.47217	28.1707	0.833476	0.8836473	0.8225808	-0.06106657
0.011596	0.00826	20.82862	19.35675	0.6626064	0.738276	0.664589	-0.07368702
0.002283	0.00018	37.55932	26.41567	0.165261	0.2886951	0.371167	0.08247189
0.005856	0.0003	35.22177	22.32415	0.6203462	0.8706047	0.7511582	-0.1194464
0.029483	0.01346	18.70877	15.30434	0.8391733	0.7439182	0.8222343	0.07831602
0.002888	7.44E-05	41.28477	25.39343	0.1635661	0.0805545	0.1546901	0.07413565
0.022559	0.01439	18.41958	16.46684	0.8148289	0.7355516	0.8097816	0.07422996
0.010131	0.01205	19.19011	19.94328	0.2231514	0.1377413	0.2229418	0.0852005
0.003092	0.0032	24.94766	25.09763	0.8825064	0.9503476	0.873341	-0.07700665
0.014448	2.10E-06	56.77269	18.40179	0.838101	0.55993	0.4657902	-0.09413978
0.047899	0.00348	24.58661	13.19672	0.8529548	0.5504037	0.4356936	-0.1147101
0.00219	0.01467	18.33548	26.59582	0.0821214	0.1604574	0.3382702	0.1778127
0.019729	0.00525	22.79855	17.04897	0.9006071	0.7969562	0.7019324	-0.09502386
0.011278	0.0083	20.80683	19.47779	0.2498837	0.1614195	0.2434097	0.08199023

0.020147	5.85E-06	52.3264	16.95787	0.1171138	0.5238003	0.4208975	-0.1029027
0.005921	0.01109	19.55132	22.27575	0.8996233	0.9539018	0.8973376	-0.0565642
0.010237	0.00418	23.78842	19.89843	0.8435256	0.7425431	0.8241484	0.08160526
0.004056	9.53E-05	40.20844	23.91936	0.1477965	0.093281	0.1472736	0.05399261
0.003314	0.00075	31.2606	24.79687	0.1737015	0.0849909	0.1455933	0.06060247
0.001909	0.00152	28.16868	27.19267	0.7681823	0.830587	0.7679458	-0.06264125
0.005962	0.01571	18.03906	22.24644	0.8954216	0.8148612	0.7131461	-0.1017151
0.001652	0.00078	31.06434	27.81967	0.169941	0.0810961	0.1600008	0.07890475
0.001846	0.0013	28.84935	27.33791	0.5459192	0.6035002	0.5472167	-0.05628354
0.009124	0.00905	20.43175	20.39812	0.3549027	0.2579505	0.337104	0.07915348
0.005096	0.00303	25.17853	22.92812	0.6183229	0.8177873	0.6343772	-0.1834101
0.038511	0.0231	16.36427	14.14411	0.903395	0.8252677	0.8911088	0.06584105
0.00141	0.0072	21.42637	28.50683	0.7203088	0.774541	0.7030455	-0.07149546
0.000873	0.02498	16.02324	30.59183	0.9114457	0.8500093	0.7168764	-0.133133
0.048692	0.02349	16.29107	13.12538	0.7930394	0.7385289	0.6494543	-0.08907462
0.003373	0.00995	20.02014	24.71982	0.1706282	0.1109767	0.1896707	0.07869405
8.52E-07	3.72E-07	64.2962	60.69588	0.2097695	0.0931566	0.2008205	0.107664
0.000492	0.00089	30.51076	33.0776	0.6704904	0.7665169	0.6723853	-0.09413164
0.002894	0.0004	33.95198	25.38476	0.9097411	0.8308549	0.8855506	0.05469563
0.001544	0.0005	32.98626	28.11245	0.1140488	0.0404932	0.1075465	0.06705325
0.010107	0.00968	20.14319	19.95398	0.79991	0.8690491	0.7927496	-0.07629944
0.016581	0.00751	21.24498	17.80377	0.7963251	0.6852102	0.7783998	0.09318966
0.010148	0.00455	23.42324	19.93619	0.8766922	0.7778443	0.854594	0.0767497
0.018678	0.01638	17.85651	17.28664	0.841165	0.8995528	0.8376431	-0.06190963
0.00281	0.00066	31.80036	25.51358	0.8221136	0.7502162	0.8048609	0.05464464
0.046313	0.01871	17.28007	13.34296	0.4992259	0.5979421	0.6699775	0.07203543
0.045031	0.00139	28.57295	13.4649	0.7362862	0.5767089	0.6508978	0.07418892
0.020621	0.00093	30.33352	16.85688	0.1191432	0.2434897	0.4219438	0.1784541
0.023797	0.00032	34.90873	16.23485	0.8239183	0.7043341	0.7627961	0.05846198
0.013595	0.00164	27.85798	18.66617	0.7649356	0.6215132	0.713972	0.09245875
0.028061	0.02371	16.25042	15.51902	0.6718501	0.7626685	0.6770306	-0.08563789
0.016279	0.01989	17.01355	17.88362	0.1364111	0.0819358	0.1361476	0.05421184
0.029241	0.00169	27.73111	15.34013	0.8489569	0.6224665	0.7223654	0.09989892
0.000267	0.00683	21.65605	35.73689	0.7309622	0.8115324	0.7062982	-0.1052342
0.01731	0.0169	17.71992	17.61692	0.0772841	0.1593709	0.0793179	-0.08005297
0.047228	0.0189	17.23515	13.25798	0.0467631	0.1907161	0.2919314	0.1012153
0.024059	0.02642	15.78114	16.18728	0.7560908	0.6965718	0.7609442	0.06437233
0.035396	0.04393	13.57191	14.51051	0.6905248	0.7828048	0.6893517	-0.09345321
0.047807	0.03878	14.11344	13.2051	0.8483182	0.6759282	0.8359878	0.1600596
0.000114	4.47E-05	43.49878	39.41301	0.2240986	0.0990024	0.2068796	0.1078772
0.048189	0.02048	16.88627	13.17054	0.0980507	0.169242	0.260584	0.09134203
0.019863	0.02169	16.63767	17.01952	0.8130574	0.7082314	0.6069516	-0.1012799
0.013052	0.01533	18.14317	18.84308	0.2423922	0.1745251	0.2353142	0.06078916
0.010335	0.01707	17.67683	19.85686	0.8169433	0.8862628	0.8032799	-0.08298285
0.048398	0.03537	14.51316	13.15172	0.9073074	0.8500116	0.7772479	-0.07276369
0.032706	0.02908	15.36472	14.85378	0.9041531	0.7799074	0.8930616	0.1131542
0.021975	0.02219	16.53769	16.58068	0.7650111	0.8546019	0.7636496	-0.09095231
0.009433	0.01068	19.71323	20.2536	0.8223042	0.6034344	0.8016042	0.1981698
1.03E-05	0.00103	29.87631	49.87184	0.532421	0.6756403	0.5016744	-0.173966
0.035792	0.00442	23.54679	14.46216	0.8978394	0.7571968	0.8334045	0.07620767
0.005085	0.01565	18.054	22.93681	0.7692508	0.8481658	0.7582009	-0.08996484
0.020028	0.01996	16.99914	16.98359	0.8693259	0.7660081	0.8678103	0.1018022
0.005926	0.00244	26.12671	22.27242	0.7660763	0.6825889	0.7601089	0.07751993
0.009643	0.00047	33.27534	20.15773	0.4480625	0.7602907	0.6447688	-0.1155218



0.00314	0.0086	20.65452	25.03001	0.8120196	0.8857674	0.7994484	-0.08631901
0.021488	0.00128	28.91939	16.678	0.8432423	0.6099072	0.7221791	0.1122719
0.000375	0.00057	32.46444	34.2627	0.8985434	0.9535075	0.899218	-0.05428948
0.029722	0.01339	18.73367	15.2692	0.86906	0.7932457	0.8580206	0.0647749
0.038832	0.0032	24.94722	14.10813	0.6725812	0.5188705	0.6031584	0.08428778
0.045679	0.00868	20.61483	13.40279	0.8409466	0.4416834	0.6605652	0.2188818
0.016875	0.01467	18.33709	17.72763	0.596409	0.6732983	0.599113	-0.07418531
0.049035	0.01341	18.7272	13.09494	0.3509501	0.1485607	0.2875683	0.1390075
0.008461	0.00432	23.64081	20.72602	0.8575467	0.7199899	0.6067074	-0.1132825
0.000792	0.00039	34.11626	31.01107	0.4281839	0.2542416	0.4128259	0.1585844
0.002924	0.00078	31.05303	25.34003	0.5169105	0.6733159	0.562296	-0.1110199
0.002863	0.00639	21.94791	25.43106	0.9049925	0.7617201	0.588753	-0.1729671
0.033443	0.02879	15.40806	14.75697	0.6171508	0.720067	0.6195508	-0.1005163
0.038355	0.00366	24.36631	14.16182	0.243865	0.5325065	0.6745795	0.142073
0.000646	0.00987	20.05848	31.89844	0.7940133	0.7411879	0.7995737	0.05838579
0.005886	0.03244	14.88956	22.30156	0.0625396	0.1674159	0.3262359	0.1588199
0.015871	0.01307	18.83707	17.994	0.6806915	0.7508608	0.6810293	-0.06983151
0.049523	0.03157	15.00666	13.05197	0.8765964	0.7509313	0.6265144	-0.1244169
0.025385	0.01633	17.87142	15.95425	0.4073173	0.3131154	0.3849993	0.07188395
0.03267	0.04177	13.79118	14.85855	0.7043304	0.7673295	0.6994957	-0.06783383
0.002577	0.0007	31.56052	25.88879	0.1286735	0.0406448	0.1096768	0.06903198
0.009983	0.00267	25.73666	20.00734	0.8225339	0.8925002	0.8325883	-0.05991195
0.009499	0.00469	23.28742	20.2234	0.854495	0.7837393	0.8455355	0.06179618
0.025051	0.03888	14.10253	16.0118	0.8643537	0.7562785	0.879921	0.1236425
0.008142	0.03999	13.98043	20.89281	0.4268075	0.3717041	0.4546213	0.08291716
0.000351	0.00013	38.76889	34.54562	0.1678833	0.1117729	0.161799	0.05002603
0.007719	0.00261	25.82566	21.12449	0.2617612	0.445702	0.5817732	0.1360711
0.005213	0.02996	15.23503	22.8289	0.23207	0.1453743	0.3080892	0.1627149
0.001053	0.00024	36.14739	29.77778	0.1715672	0.1034169	0.1948391	0.09142228
0.024008	0.01377	18.612	16.1965	0.8043244	0.8942971	0.824518	-0.06977917
0.021489	0.00178	27.49857	16.67776	0.651458	0.4635426	0.5715157	0.1079731
0.000177	0.00084	30.73993	37.52119	0.6049113	0.6981033	0.5756712	-0.1224322
0.013059	3.08E-06	55.11226	18.84093	0.2767122	0.8331854	0.6850737	-0.1481118
0.045778	0.02665	15.74342	13.39344	0.6813437	0.7741753	0.697275	-0.07690035
6.81E-05	9.63E-06	50.16394	41.67043	0.1124004	0.027375	0.0925222	0.06514718
0.033316	0.00095	30.23093	14.77353	0.7556832	0.6112249	0.5220755	-0.0891494
0.029151	0.00028	35.53238	15.3534	0.7866966	0.558553	0.6455163	0.08696332
0.049862	0.01167	19.32899	13.02228	0.8232412	0.6557196	0.7616046	0.105885
0.033962	0.04836	13.15538	14.69013	0.0556758	0.1190618	0.0479569	-0.07110487
0.028364	0.00349	24.57771	15.47235	0.7973393	0.676775	0.5768552	-0.09991981
0.017352	0.00389	24.1045	17.60658	0.9197639	0.781585	0.8627533	0.08116831
0.020269	0.00321	24.93633	16.93169	0.3090703	0.1242042	0.211493	0.08728889
0.000792	0.00113	29.46201	31.01443	0.1405557	0.0857818	0.1409731	0.05519125
0.0041	0.01104	19.56986	23.87235	0.6450666	0.788094	0.6332736	-0.1548204
0.003711	0.00432	23.64574	24.30564	0.7584589	0.8743067	0.7684791	-0.1058276
0.004412	0.00061	32.15336	23.5533	0.8125207	0.6761124	0.7668232	0.09071091
0.041681	0.0015	28.22807	13.80064	0.0702986	0.4119613	0.5204344	0.1084732
0.020276	0.00072	31.43912	16.93016	0.8408248	0.707006	0.6145346	-0.09247138
0.007124	0.00394	24.04356	21.47292	0.8750303	0.7871466	0.8652623	0.07811563
0.030165	6.29E-05	42.01289	15.20492	0.7324358	0.6145408	0.546041	-0.06849985
0.003658	0.00747	21.26968	24.36708	0.5118824	0.6608417	0.4955025	-0.1653392
0.027833	0.00236	26.26353	15.55444	0.8585868	0.6686295	0.5821683	-0.08646123
0.00379	0.00181	27.43127	24.21386	0.5817347	0.6465508	0.5840263	-0.0625245
3.47E-05	1.24E-05	49.05227	44.59911	0.3246085	0.1567628	0.3095646	0.1528018

0.004385	0.03184	14.97081	23.58008	0.5677161	0.6262094	0.5308054	-0.09540398
0.04017	0.00157	28.04427	13.96097	0.8267559	0.7759398	0.6996528	-0.07628704
0.013643	0.02503	16.01535	18.65091	0.4528815	0.5998395	0.4323211	-0.1675184
0.045575	0.00781	21.07297	13.41275	0.4771346	0.6096735	0.4983863	-0.1112872
0.000772	0.00584	22.33579	31.12536	0.8533363	0.9208668	0.8287535	-0.09211332
0.002635	0.00078	31.0797	25.79285	0.8012155	0.6906293	0.7798719	0.08924259
0.037526	0.03271	14.85303	14.25671	0.8574123	0.7817115	0.8540589	0.07234742
0.00351	0.00062	32.0512	24.54633	0.8506646	0.7434398	0.6041666	-0.1392733
4.20E-05	5.95E-07	62.25421	43.77231	0.1321319	0.0694908	0.1211412	0.0516504
0.001086	0.03575	14.4675	29.64153	0.383052	0.4555879	0.3337988	-0.1217891
0.0042	0.01106	19.56305	23.76704	0.5386121	0.6514755	0.5085361	-0.1429394
0.018342	0.01214	19.15624	17.3655	0.2788497	0.1819425	0.2687242	0.08678166
0.00011	4.29E-06	53.67491	39.57433	0.2729687	0.1143833	0.2517655	0.1373822
0.010466	1.52E-06	58.18681	19.80228	0.8692101	0.7256818	0.6112228	-0.114459
0.027405	0.00012	39.31961	15.62173	0.7660268	0.5071665	0.5957796	0.08861306
0.01176	0.00021	36.74903	19.29586	0.8759291	0.8001817	0.8546486	0.05446699
0.000191	0.00074	31.31834	37.18884	0.4096632	0.3169619	0.4112335	0.09427158
0.001673	0.00103	29.87667	27.76587	0.7031702	0.8173391	0.6923006	-0.1250385
0.021851	0.02216	16.54421	16.60523	0.3203138	0.2162172	0.3160294	0.09981222
1.30E-05	2.56E-06	55.92016	48.85961	0.2786618	0.1193322	0.2762516	0.1569194
0.005123	0.00037	34.26801	22.90464	0.1561106	0.0633044	0.1208009	0.05749653
0.000936	4.24E-05	43.72178	30.28774	0.7512263	0.8719718	0.8137673	-0.05820462
0.00585	0.00184	27.36264	22.32836	0.8032812	0.8904268	0.8159099	-0.07451692
0.005609	0.00323	24.90129	22.51111	0.7946501	0.8981696	0.8049721	-0.09319754
0.006118	0.01186	19.26005	22.13372	0.6971892	0.7799153	0.6882724	-0.09164284
0.000519	0.00113	29.48659	32.84781	0.8587322	0.7928181	0.8736624	0.0808443
0.031158	0.00739	21.31369	15.0643	0.8407861	0.7530271	0.8149756	0.0619484
0.033979	0.01686	17.73172	14.68789	0.8149757	0.9065226	0.8311739	-0.07534865
0.012326	0.04369	13.59577	19.09188	0.8258112	0.7509386	0.8559338	0.1049953
0.028895	5.24E-05	42.80723	15.39175	0.8308718	0.9670107	0.9166465	-0.05036412
0.029579	0.00216	26.65281	15.29013	0.829689	0.5303439	0.6788254	0.1484814
0.000135	9.95E-07	60.02347	38.69548	0.0970378	0.7317926	0.6224586	-0.109334
0.007489	0.01024	19.89658	21.25587	0.7026515	0.7736315	0.697462	-0.0761696
0.025633	0.00343	24.64647	15.91204	0.9024619	0.6867307	0.5650142	-0.1217165
0.000729	0.00057	32.41426	31.37329	0.6634097	0.5064726	0.6114092	0.1049366
0.035291	0.0049	23.09756	14.52339	0.5253598	0.435728	0.5017606	0.06603259
0.000189	0.00012	39.08797	37.24482	0.3151606	0.1801885	0.2958912	0.1157027
0.00242	0.00179	27.47107	26.16229	0.6161727	0.737508	0.625045	-0.112463
0.013857	0.01049	19.79184	18.58346	0.7709523	0.7073993	0.7708388	0.0634395
0.023335	0.0005	33.05233	16.31993	0.1170613	0.2468565	0.3136536	0.06679711
0.029865	0.01539	18.12653	15.24832	0.7669942	0.8658849	0.7775531	-0.08833182
0.040018	0.02786	15.54973	13.97742	0.8780734	0.8061129	0.8678386	0.06172578
0.017495	0.00195	27.10713	17.57088	0.8491689	0.7683495	0.6960726	-0.07227694
0.02026	0.02859	15.43732	16.93367	0.6673802	0.7393922	0.66405	-0.07534214
0.011755	0.0068	21.67539	19.29776	0.1802444	0.0822641	0.1653202	0.08305618
0.013317	0.00254	25.95611	18.75599	0.7787997	0.8707318	0.8103963	-0.06033556
0.008913	0.00018	37.42028	20.49954	0.7653755	0.8223721	0.7490361	-0.07333602
0.013536	0.03328	14.77837	18.68517	0.8223047	0.7665156	0.6623561	-0.1041595
0.040344	0.01506	18.22283	13.94222	0.7705621	0.5948083	0.7221701	0.1273617
0.014868	0.01178	19.28928	18.27744	0.5791455	0.6696977	0.5909628	-0.07873497
0.047204	0.00247	26.07172	13.26019	0.7740145	0.5571865	0.482117	-0.07506951
0.039006	0.01223	19.12469	14.08873	0.9033926	0.8285009	0.7720215	-0.05647943
0.004577	0.00733	21.35052	23.39431	0.1653305	0.0942783	0.1732967	0.07901848
0.034993	0.00896	20.47864	14.56019	0.7756665	0.6915073	0.7573644	0.0658571

0.011184	0.00314	25.03182	19.5141	0.6468261	0.7564276	0.6703458	-0.08608181
0.001614	0.00103	29.88589	27.91968	0.2752558	0.1995516	0.2693037	0.06975215
0.048857	0.00572	22.42936	13.11075	0.8161578	0.6494546	0.5433034	-0.1061512
0.006767	0.00333	24.76907	21.69584	0.8238986	0.9065575	0.8362687	-0.07028875
8.64E-05	4.59E-05	43.38246	40.63609	0.6381965	0.7155781	0.6379639	-0.07761419
0.004304	0.01488	18.2741	23.66132	0.7670413	0.855684	0.7183548	-0.1373292
0.004204	0.0024	26.20135	23.76331	0.8774967	0.9311144	0.874448	-0.05666635
0.008624	0.00771	21.12739	20.64277	0.7851281	0.6660729	0.7834125	0.1173395
0.035645	0.00309	25.10649	14.48003	0.7981628	0.6280224	0.7088128	0.08079048
0.026891	3.58E-05	44.46625	15.70401	0.7694979	0.5135548	0.5833162	0.06976138
0.040927	0.01824	17.38878	13.87994	0.8558932	0.762539	0.8348197	0.07228075
0.028453	0.02965	15.27936	15.45866	0.701885	0.8019766	0.7031448	-0.09883185
0.049362	0.04651	13.32433	13.0661	0.8808607	0.7958442	0.8778866	0.08204239
0.010618	0.0015	28.23189	19.73963	0.7899831	0.7144411	0.7650695	0.05062842
0.02808	1.22E-06	59.11901	15.51598	0.870783	0.7519848	0.683685	-0.0682998
0.000329	0.00159	27.994	34.8311	0.3013696	0.1901562	0.2964418	0.1062856
0.028178	6.38E-05	41.9495	15.50088	0.0941384	0.3676641	0.4569024	0.08923825
0.031712	0.00191	27.19742	14.98779	0.9724286	0.908912	0.8196443	-0.08926772
0.000942	0.00011	39.56413	30.25953	0.1531765	0.0996004	0.1508582	0.05125776
0.00904	0.0033	24.81407	20.43821	0.1451889	0.2725379	0.3704594	0.09792143
0.004119	0.00142	28.46704	23.85214	0.8452997	0.716319	0.6277817	-0.08853728
0.000916	8.70E-05	40.60644	30.37998	0.1886386	0.1186432	0.1720226	0.0533794
0.037449	0.00541	22.67009	14.26562	0.8627156	0.7072099	0.6265188	-0.08069109
0.010047	0.01343	18.71824	19.97957	0.8840997	0.953254	0.878338	-0.07491598
0.00664	0.00011	39.40872	21.77832	0.1018367	0.3789128	0.4852161	0.1063032
0.014438	0.04707	13.27223	18.40494	0.7786844	0.8630812	0.7436512	-0.11943
0.014159	2.88E-05	45.41189	18.48972	0.7552175	0.4833591	0.3903291	-0.09302999
0.028865	6.39E-08	71.94417	15.39629	0.1018605	0.7222792	0.7767782	0.05449898
0.002051	0.00305	25.15538	26.88091	0.6032972	0.6546146	0.5670679	-0.08754665
0.016984	0.01733	17.61076	17.69968	0.7151871	0.8019819	0.7174312	-0.08455063
0.01533	0.00402	23.95519	18.14465	0.7712052	0.6121038	0.7101074	0.0980036
0.021943	0.01395	18.55335	16.58703	0.8768746	0.7511229	0.6460306	-0.1050923
0.025039	0.00167	27.77636	16.01376	0.2023884	0.0774316	0.1472234	0.06979178
0.041018	0.02307	16.36903	13.87023	0.077501	0.1844654	0.1021373	-0.08232816
0.021623	0.00518	22.85681	16.65079	0.7815732	0.6607668	0.7488034	0.08803652
0.042156	0.00028	35.56847	13.7514	0.8083944	0.6732259	0.7298286	0.05660262
0.01959	0.02863	15.43162	17.07956	0.646709	0.6972947	0.6410607	-0.05623402
5.52E-05	2.12E-05	46.72847	42.57717	0.8575673	0.7631188	0.8438023	0.08068351
0.036465	0.0401	13.96845	14.38122	0.0719557	0.1422637	0.0741661	-0.06809753
0.004249	0.00573	22.42105	23.71714	0.4090024	0.25495	0.4093778	0.1544278
0.011884	0.00524	22.81034	19.25035	0.7639906	0.6826733	0.7472354	0.06456214
0.014573	0.00599	22.22685	18.36442	0.8690248	0.8001011	0.858807	0.05870589
0.010232	0.01303	18.85046	19.90049	0.8454212	0.918963	0.8432728	-0.07569018
0.00205	0.00089	30.50317	26.88345	0.1034677	0.0417392	0.0975744	0.05583529
0.000597	0.00131	28.82059	32.24054	0.8291793	0.8816966	0.8277932	-0.05390343
0.027651	0.03685	14.33606	15.58284	0.8531622	0.794532	0.8576726	0.06314062
0.002081	0.00794	20.99994	26.81678	0.7004604	0.8029351	0.6848601	-0.1180751
0.009686	0.00807	20.93068	20.13843	0.3970823	0.2302477	0.3781075	0.1478597
0.001514	0.00201	26.96138	28.19906	0.8483555	0.7906705	0.8506705	0.06000007
0.003433	0.00055	32.5918	24.64307	0.8976443	0.7971573	0.8592364	0.06207903
0.00416	0.00095	30.21198	23.80927	0.1967051	0.0935043	0.1757304	0.08222615
0.015774	7.25E-05	41.39942	18.02063	0.1842832	0.0874141	0.1445412	0.05712718
0.001726	5.20E-05	42.8421	27.62846	0.227594	0.1045516	0.1736375	0.06908592
0.010431	0.00014	38.48016	19.81657	0.8254326	0.6387956	0.5558314	-0.08296423

0.047178	0.01821	17.39757	13.26259	0.8901682	0.7798635	0.6729331	-0.1069304
0.038215	0.00348	24.58417	14.17765	0.9066746	0.6081717	0.4799389	-0.1282328
0.042694	0.01915	17.17903	13.69628	0.8392872	0.6885991	0.7945097	0.1059106
0.026719	9.09E-07	60.41525	15.73179	0.3934099	0.8809885	0.8091582	-0.0718303
0.001935	1.03E-05	49.85919	27.13238	0.6497247	0.7886086	0.7146465	-0.07396207
0.003148	0.00274	25.62992	25.01962	0.5496729	0.7151066	0.5718995	-0.1432072
0.021408	0.02432	16.14025	16.69428	0.9232012	0.8591994	0.9304009	0.07120152
0.030242	0.00052	32.84241	15.19386	0.8444991	0.7103578	0.7725343	0.06217643
0.004829	2.70E-05	45.69216	23.16152	0.1649822	0.0678841	0.1422619	0.07437786
0.001493	0.00247	26.06462	28.25848	0.8098743	0.8640954	0.8042446	-0.05985089
0.000121	2.55E-05	45.93715	39.16789	0.1162941	0.0424095	0.101596	0.05918653
0.040984	0.01426	18.45866	13.87388	0.9140827	0.7941059	0.7065654	-0.08754044
0.002573	0.00419	23.7815	25.89547	0.7300842	0.8437061	0.720559	-0.123147
0.020856	0.00547	22.61943	16.80761	0.7686808	0.6516156	0.7271708	0.07555518
0.042739	0.01881	17.25685	13.69176	0.6440772	0.7510366	0.6712807	-0.07975587
0.015625	0.02914	15.35459	18.0618	0.7891356	0.6956931	0.7711001	0.07540701
1.43E-06	8.52E-05	40.69378	58.44671	0.1875397	0.0974622	0.1892134	0.09175119
0.028665	9.53E-06	50.2097	15.42652	0.77734	0.5647752	0.4879582	-0.07681698
0.000395	1.14E-06	59.42196	34.03482	0.8837545	0.6745322	0.7630651	0.08853288
0.02819	0.0076	21.19231	15.49903	0.8521805	0.7555082	0.8177093	0.06220105
0.013613	1.49E-06	58.27044	18.66056	0.1313885	0.355661	0.4399131	0.08425205
0.000732	0.00049	33.10655	31.35543	0.5209734	0.4568753	0.5162827	0.05940743
0.037357	0.01971	17.05209	14.27624	0.6919335	0.7940464	0.7106898	-0.08335651
0.004153	0.00847	20.7227	23.81639	0.8881399	0.8038513	0.7029325	-0.1009189
0.000218	0.00017	37.71684	36.61651	0.8398013	0.9615774	0.8597698	-0.1018075
0.0087	0.00568	22.46024	20.60463	0.8276793	0.9083024	0.8401613	-0.06814104
0.046978	0.02838	15.46976	13.28107	0.3272045	0.2260282	0.3074057	0.08137754
0.048576	0.01997	16.99562	13.13582	0.8793565	0.7576344	0.8518389	0.0942045
0.008588	0.0019	27.21678	20.66099	0.7894479	0.8654134	0.7640505	-0.1013629
0.000231	6.00E-05	42.21856	36.3732	0.1355463	0.065174	0.1305141	0.06534003
0.002283	0.01072	19.69879	26.41413	0.5051683	0.5927982	0.4887546	-0.1040436
0.022442	0.00112	29.49065	16.48934	0.1528669	0.3986302	0.521351	0.1227209
0.018389	0.00163	27.88143	17.35432	0.871748	0.7115788	0.6222327	-0.08934616
0.027588	0.02042	16.89959	15.59273	0.8244782	0.901842	0.8265436	-0.07529841
0.041127	0.02598	15.85442	13.85868	0.9178591	0.8080372	0.9007125	0.09267528
0.049077	0.00902	20.44716	13.09118	0.459335	0.7370914	0.5898659	-0.1472255
0.006956	0.0111	19.54712	21.57622	0.1375456	0.0680722	0.1357886	0.06771635
0.04957	0.01069	19.70999	13.0478	0.9303319	0.8538582	0.8003237	-0.0535345
0.001249	0.0004	33.99359	29.03472	0.7870524	0.73377	0.7860764	0.05230647
0.000246	0.00057	32.45386	36.08716	0.1587151	0.0843331	0.1393866	0.05505352
0.006899	0.00032	34.98777	21.61208	0.0299201	0.2202173	0.1004023	-0.1198151
0.005227	0.00547	22.62016	22.81715	0.8194778	0.8953398	0.8284101	-0.06692971
0.013265	0.01559	18.07026	18.77294	0.7537889	0.8615084	0.759826	-0.1016824
0.004661	0.01411	18.50508	23.3155	0.2810314	0.2131264	0.3124612	0.09933474
0.003314	0.00133	28.75548	24.79646	0.8157567	0.9089542	0.8187414	-0.09021282
0.000879	4.75E-05	43.23326	30.55979	0.6398336	0.746325	0.6830244	-0.06330062
0.033775	0.04787	13.19969	14.71411	0.6627479	0.7502137	0.6539708	-0.09624288
0.009532	0.0007	31.53686	20.20805	0.3063412	0.2095592	0.2681433	0.05858409
0.007979	0.00285	25.44466	20.98032	0.22618	0.0945214	0.1918098	0.09728841
2.64E-05	5.09E-05	42.93299	45.78224	0.6432148	0.8006204	0.6368204	-0.1638
0.040509	0.00138	28.60598	13.92447	0.8066093	0.7001545	0.7604688	0.06031439
0.017281	0.00552	22.57753	17.62423	0.1243201	0.1836317	0.1289602	-0.05467153
0.003898	0.00566	22.46817	24.09109	0.8694521	0.9292318	0.8565261	-0.07270572
0.000347	0.00264	25.78691	34.59093	0.5771543	0.6365678	0.5523087	-0.084259

0.00024	0.00136	28.65045	36.20203	0.7879186	0.9148341	0.7994763	-0.1153579
0.002657	0.00599	22.22486	25.7564	0.476028	0.5975534	0.4667048	-0.1308486
0.024065	0.01751	17.5681	16.18618	0.6733256	0.7561334	0.6832658	-0.07286754
0.000196	1.09E-06	59.64193	37.07536	0.7850769	0.878582	0.8032149	-0.07536712
0.004593	0.00531	22.74704	23.37875	0.4110186	0.4930522	0.4057484	-0.08730382
0.006756	0.0125	19.02985	21.70328	0.5292726	0.5803126	0.5180889	-0.06222368
0.045602	0.04009	13.97016	13.4102	0.7345156	0.5994214	0.4720726	-0.1273488
0.02093	0.04416	13.5502	16.79226	0.7577973	0.8217861	0.7440259	-0.07776022
0.030483	0.00595	22.25305	15.1594	0.8675625	0.6617005	0.789576	0.1278755
0.000233	0.00102	29.92238	36.32748	0.7352766	0.8830504	0.7198302	-0.1632202
0.008887	0.00855	20.682	20.51259	0.6227491	0.793339	0.6340886	-0.1592504
0.007729	0.00574	22.40737	21.11871	0.9128271	0.7214689	0.5394396	-0.1820294
0.031769	0.0178	17.49578	14.97992	0.8325725	0.8995304	0.8474435	-0.05208684
0.007468	0.0018	27.44027	21.26788	0.9089376	0.6716632	0.5421479	-0.1295154
0.037743	0.01602	17.95356	14.23162	0.5490638	0.6375006	0.569757	-0.06774354
0.029849	0.03016	15.20611	15.25068	0.8464947	0.7220541	0.5826496	-0.1394046
0.001754	0.00099	30.02568	27.56067	0.1374618	0.0600337	0.1260484	0.06601475
0.017065	0.01993	17.00597	17.67884	0.7439891	0.7945054	0.7414274	-0.05307806
0.004791	0.00111	29.53953	23.19544	0.8152984	0.7474846	0.820625	0.07314046
0.000961	0.00295	25.29786	30.17068	0.7171732	0.8208862	0.7103908	-0.1104954
0.007493	0.00064	31.95966	21.25356	0.8544492	0.7696801	0.6846726	-0.08500754
0.001273	2.10E-05	46.7859	28.95312	0.1388785	0.0650729	0.1435795	0.07850662
0.045165	0.03157	15.00699	13.45199	0.5001166	0.4141716	0.4935023	0.07933068
0.004824	0.00421	23.75702	23.16628	0.8381723	0.732922	0.8313487	0.0984267
0.000498	0.00264	25.78719	33.02958	0.5709911	0.631631	0.5715215	-0.06010948
0.01622	0.01436	18.42724	17.89949	0.6617683	0.8126783	0.6716408	-0.1410376
0.001743	0.00196	27.07053	27.58639	0.8203967	0.7609252	0.8214428	0.06051758
0.000454	1.17E-08	79.33405	33.426	0.1661577	0.0791039	0.1507303	0.07162642
0.002528	0.00013	38.87509	25.97186	0.7848105	0.6129373	0.7160259	0.1030886
0.024819	0.01605	17.94397	16.05216	0.8510976	0.9023649	0.851248	-0.05111679
0.045164	0.0344	14.63446	13.45208	0.3169658	0.4824297	0.3265491	-0.1558806
0.014945	2.84E-05	45.47156	18.25501	0.4138933	0.6204682	0.5678045	-0.05266366
0.016956	0.02509	16.00526	17.70688	0.7990048	0.8519509	0.7934027	-0.05854823
0.00089	0.00018	37.42592	30.50436	0.1834603	0.0879375	0.1582394	0.07030191
0.039707	0.00456	23.40747	14.0113	0.8637162	0.7241009	0.8106664	0.08656554
0.023728	0.01054	19.76968	16.24744	0.5489459	0.3203078	0.4890405	0.1687326
0.017188	0.00022	36.6622	17.64782	0.8255669	0.6626619	0.7436449	0.08098303
0.018805	0.00502	22.98923	17.25737	0.2053074	0.1353692	0.1884902	0.05312098
0.00919	0.00219	26.59949	20.36675	0.8357002	0.718345	0.6117131	-0.1066319
0.002054	0.00113	29.48236	26.87383	0.5700504	0.6261383	0.5621274	-0.06401084
0.006075	0.01591	17.98362	22.1643	0.5073314	0.5644265	0.485404	-0.07902245
0.000782	2.80E-05	45.53045	31.06837	0.8248264	0.9023823	0.8289227	-0.07345948
0.001221	0.00032	34.91311	29.13404	0.6028123	0.7337993	0.6304058	-0.1033935
0.039106	0.00345	24.61774	14.07758	0.8913766	0.5967236	0.4699988	-0.1267248
0.00544	0.01149	19.39634	22.64395	0.5201425	0.7086602	0.4744444	-0.2342158
0.001145	0.00986	20.06251	29.41339	0.6389264	0.7318734	0.8276103	0.09573688
0.00203	0.00252	25.97813	26.9257	0.181678	0.1154908	0.1843405	0.06884967
0.000205	9.17E-05	40.37839	36.88676	0.1562846	0.0579015	0.1429693	0.08506779
0.032747	0.02596	15.85748	14.84822	0.7144852	0.8124434	0.7194306	-0.09301281
9.13E-05	0.0011	29.57629	40.39672	0.6754605	0.7824626	0.6745139	-0.1079488
0.010073	0.00613	22.12684	19.96824	0.116322	0.2224322	0.3410775	0.1186453
0.023398	0.0095	20.22104	16.30825	0.332336	0.1972638	0.3024267	0.1051629
0.020129	0.00016	38.01054	16.96183	0.7739005	0.5079321	0.4045772	-0.103355
0.016617	0.04405	13.56046	17.79439	0.5815881	0.6356751	0.5647664	-0.07090875

0.035522	0.0038	24.20362	14.49504	0.1333792	0.337536	0.2182524	-0.1192836
0.001305	0.00394	24.03981	28.84396	0.4747201	0.5725228	0.4595362	-0.1129867
0.029138	0.0256	15.91681	15.35546	0.7483576	0.8050691	0.7531971	-0.05187201
0.013729	0.00135	28.68752	18.62369	0.7582297	0.8761954	0.8082246	-0.06797079
0.041817	0.02303	16.3779	13.78646	0.8330679	0.7506589	0.8249337	0.07427483
0.001058	4.84E-05	43.15383	29.75451	0.2604108	0.1024044	0.2156897	0.1132853
0.031233	0.00213	26.71595	15.0538	0.1395184	0.563531	0.7314023	0.1678712
0.000207	5.21E-06	52.8327	36.84912	0.8720132	0.7353378	0.8132323	0.07789452
0.000226	5.14E-05	42.89355	36.45146	0.1598503	0.0667654	0.1460298	0.07926436
0.013285	0.02864	15.42982	18.76636	0.8733971	0.8181482	0.8844649	0.06631671
0.030446	0.04492	13.47565	15.16474	0.731978	0.7851756	0.724976	-0.06019963
0.030885	0.01522	18.17518	15.10246	0.5110972	0.5907416	0.5261358	-0.06460581
0.041472	0.00958	20.1859	13.8224	0.911362	0.6335166	0.4590191	-0.1744975
0.019661	0.00294	25.31722	17.06394	0.8043193	0.5664139	0.7029537	0.1365398
0.046902	0.02422	16.15824	13.28806	0.0942631	0.1569009	0.1064747	-0.05042617
0.004882	0.03717	14.29814	23.11435	0.848772	0.9007145	0.8145155	-0.08619895
0.043025	0.01377	18.60912	13.66276	0.1989288	0.1148963	0.1749995	0.06010316
0.003371	0.0009	30.47029	24.72262	0.8017879	0.8799969	0.8194348	-0.06056216
0.020916	0.01069	19.7097	16.79512	0.8880485	0.7594746	0.653963	-0.1055116
0.00208	0.00029	35.44097	26.81964	0.7734968	0.6765656	0.7537349	0.07716919
0.040465	0.01283	18.9175	13.92922	0.8047942	0.5596563	0.7354401	0.1757838
0.000664	0.00077	31.1142	31.7798	0.7641939	0.863749	0.751168	-0.112581
1.80E-06	8.53E-06	50.69017	57.44146	0.8971912	0.956269	0.8958967	-0.0603722
0.0225	0.00041	33.91339	16.47826	0.8169127	0.679519	0.6094562	-0.07006276
0.009523	0.01648	17.83094	20.21247	0.9076793	0.8527217	0.7612698	-0.09145189
0.000283	0.0024	26.19483	35.47481	0.6703234	0.7426138	0.6042389	-0.1383749
0.003102	0.00129	28.89815	25.08295	0.3608958	0.2527038	0.3449531	0.09224924
0.000147	0.0029	25.38258	38.33701	0.7364319	0.8182552	0.6862413	-0.1320139
0.023937	0.0223	16.51684	16.20938	0.845224	0.7536402	0.842308	0.08866788
0.007964	0.00376	24.24327	20.98866	0.6280016	0.8284681	0.6605307	-0.1679373
0.010341	0.00081	30.93248	19.85441	0.9052246	0.8124658	0.8731177	0.06065185
0.034426	0.00496	23.04363	14.63114	0.3384407	0.4700817	0.5416781	0.07159635
0.002581	0.00147	28.31683	25.88164	0.767116	0.8746431	0.7716969	-0.1029462
1.17E-05	4.46E-06	53.50341	49.31015	0.2369277	0.1187315	0.218624	0.09989253
0.045374	0.01446	18.39781	13.43189	0.6639161	0.8158318	0.7193384	-0.09649346
0.0191	0.00158	28.02543	17.1897	0.5449486	0.399853	0.4879914	0.08813837
0.014857	6.92E-05	41.59999	18.28068	0.0549142	0.2242864	0.1671831	-0.05710335
0.000362	0.00024	36.15451	34.4087	0.1520457	0.0775705	0.1427772	0.06520672
0.018922	0.0224	16.49761	17.23025	0.8328531	0.6751925	0.5101005	-0.165092
0.001995	1.37E-07	68.62762	27.00103	0.3271047	0.2083134	0.3135964	0.105283
0.00194	0.04888	13.10903	27.12302	0.9227857	0.8631658	0.7296304	-0.1335354
0.00572	0.00097	30.14138	22.42574	0.8737612	0.7999768	0.8515376	0.05156082
0.04451	0.03212	14.93245	13.51538	0.9183217	0.799605	0.6676787	-0.1319264
0.01655	4.39E-06	53.57138	17.81203	0.1477934	0.7991302	0.658181	-0.1409493
0.015962	0.00066	31.79053	17.96922	0.6469432	0.5196231	0.6136009	0.09397779
0.024894	0.01122	19.49977	16.03909	0.6223338	0.4369647	0.5717592	0.1347945
0.002488	0.0039	24.08651	26.04146	0.4295122	0.5603902	0.4191824	-0.1412077
0.00088	0.00043	33.62882	30.55714	0.1865229	0.088369	0.165667	0.07729799
0.005564	0.0115	19.39153	22.54645	0.5993055	0.6858621	0.5921023	-0.09375986
0.001679	0.00601	22.20958	27.74919	0.8182719	0.7464367	0.8158898	0.06945304
0.005692	5.22E-05	42.82149	22.44715	0.7740863	0.6904388	0.6201146	-0.07032426
0.015749	5.97E-05	42.23941	18.02736	0.7837551	0.5151449	0.4409148	-0.07423005
0.044294	0.01834	17.36704	13.53658	0.456434	0.6120329	0.7338293	0.1217964
0.00159	0.0099	20.04399	27.98479	0.4611546	0.6273574	0.3758575	-0.2514999

0.001374	0.03018	15.20316	28.62089	0.768398	0.838226	0.6745383	-0.1636878
0.004089	0.00245	26.10764	23.88354	0.7034284	0.7916995	0.7149637	-0.07673587
0.001244	5.07E-05	42.9459	29.05278	0.85787	0.6366463	0.7697969	0.1331506
0.033087	0.00605	22.18204	14.80342	0.7858851	0.6199303	0.7206029	0.1006726
0.010873	0.01307	18.83813	19.63647	0.8274315	0.7633998	0.8306545	0.06725471
1.33E-05	0.00022	36.48881	48.75615	0.6803412	0.7982286	0.6699966	-0.128232
0.005029	0.00313	25.04653	22.98539	0.8344374	0.9337139	0.8528182	-0.08089561
0.001629	0.00296	25.29295	27.88195	0.7539981	0.8375707	0.7315779	-0.1059928
0.0486	0.0109	19.62397	13.13361	0.778951	0.6185983	0.7084668	0.08986844
0.027715	0.03666	14.35813	15.57285	0.7128639	0.5048572	0.7384201	0.2335629
0.018705	0.0138	18.60009	17.28042	0.8916796	0.8357867	0.6917066	-0.1440801
0.007553	0.02154	16.66806	21.2187	0.7928463	0.8486922	0.7758229	-0.07286932
0.03822	0.02675	15.72659	14.17712	0.6297451	0.7872508	0.6525442	-0.1347066
0.000845	0.00494	23.06631	30.73387	0.8321666	0.7316039	0.5315703	-0.2000335
0.000683	0.02529	15.96993	31.65695	0.8416881	0.7712495	0.6267731	-0.1444764
0.009871	0.01173	19.30528	20.05623	0.8289012	0.7610188	0.6764559	-0.08456294
0.012072	0.0139	18.56855	19.18225	0.1872607	0.2864686	0.1816249	-0.1048437
0.03729	0.00011	39.77988	14.28408	0.2011833	0.3840143	0.444071	0.06005664
0.030263	0.02634	15.7937	15.19088	0.1154214	0.0514796	0.1116006	0.06012099
0.000408	0.00066	31.80326	33.89153	0.7848987	0.903915	0.7968697	-0.1070454
0.000937	3.15E-07	65.01719	30.28254	0.2034848	0.0983912	0.1905773	0.09218615
0.04078	0.00268	25.72357	13.89551	0.8395053	0.7502225	0.8094556	0.05923305
0.007948	0.00933	20.3026	20.99756	0.7784538	0.8413061	0.7726666	-0.06863952
0.001691	0.00165	27.83781	27.71953	0.8523475	0.7870046	0.849332	0.06232736
0.000125	0.00866	20.62482	39.03141	0.3577396	0.4691681	0.3061212	-0.1630469
0.009531	0.01734	17.60981	20.20843	0.8915687	0.8322246	0.7647566	-0.06746803
0.043317	5.64E-06	52.48958	13.63341	0.2939216	0.7615586	0.8399755	0.07841696
0.042594	0.00632	21.99401	13.70649	0.7545017	0.4373582	0.5874934	0.1501352
0.03481	0.01462	18.34971	14.58295	0.5011942	0.6122547	0.515058	-0.09719667
0.003619	0.01272	18.95647	24.41358	0.5527838	0.6334298	0.5290122	-0.1044177
0.037677	0.02114	16.74959	14.23926	0.8909624	0.793889	0.8719212	0.07803211
0.017815	0.00075	31.27236	17.49214	0.8878159	0.7392941	0.8239648	0.08467069
0.02486	0.01316	18.80696	16.04504	0.9188846	0.836794	0.9052684	0.06847435
0.014995	0.00226	26.45018	18.24066	0.7220236	0.7826812	0.7255333	-0.05714784
0.000268	0.00028	35.45818	35.72526	0.2793191	0.170929	0.2792039	0.1082749
0.002742	0.00024	36.25049	25.61922	0.8970454	0.9477295	0.8567447	-0.09098481
0.013839	0.01313	18.81774	18.5888	0.9019642	0.8221342	0.6844542	-0.13768
0.018261	0.02517	15.99048	17.38482	0.6601807	0.7848558	0.6592848	-0.125571
0.006382	0.00309	25.10498	21.95019	0.0580419	0.2840475	0.4242586	0.1402112
0.013534	0.01359	18.66725	18.6858	0.8814992	0.8173987	0.8764036	0.05900497
0.026366	4.44E-05	43.52362	15.7895	0.1156492	0.3749046	0.4539732	0.07906866
0.032529	0.00346	24.61048	14.8773	0.8712596	0.7273558	0.8043903	0.07703443
3.89E-06	2.44E-05	46.12041	54.10418	0.5759685	0.7163144	0.5772797	-0.1390346
0.002007	0.00726	21.38877	26.97445	0.7447069	0.8264479	0.7179913	-0.1084566
0.005843	0.00843	20.7433	22.33356	0.7844477	0.7150968	0.6020442	-0.1130526
0.044635	0.0017	27.70243	13.50328	0.7635162	0.5792436	0.6654209	0.08617729
0.049497	0.04213	13.75363	13.05424	0.9214202	0.8649654	0.9179725	0.05300718
0.004953	2.08E-06	56.82359	23.05164	0.8160205	0.5466133	0.4432864	-0.1033269
0.002276	0.00513	22.90301	26.42863	0.6781917	0.7640113	0.6673543	-0.09665705
0.025103	0.0086	20.65308	16.00268	0.9125	0.7295315	0.6179689	-0.1115626
3.62E-05	3.17E-08	74.9897	44.40836	0.6251509	0.788864	0.6384073	-0.1504566
0.020584	0.01042	19.82172	16.8646	0.6861867	0.7790796	0.8600308	0.08095118
0.008913	0.00013	38.7389	20.4996	0.521063	0.4029883	0.4680679	0.06507964
0.014043	0.0091	20.41133	18.5253	0.6851884	0.7940277	0.6980692	-0.09595851

0.021481	0.02646	15.77387	16.67947	0.8236623	0.6997268	0.838052	0.1383252
0.048739	7.24E-06	51.40299	13.12127	0.6298807	0.3794089	0.3266406	-0.05276828
0.030172	0.0002	36.93616	15.20394	0.1035675	0.2409069	0.3129925	0.07208565
0.008803	0.03899	14.09038	20.5536	0.8102616	0.9105856	0.8378504	-0.07273516
0.032932	0.01639	17.855	14.82376	0.7599798	0.5028866	0.6870903	0.1842037
0.047011	0.00534	22.72078	13.27805	0.6623572	0.5710438	0.6319727	0.06092891
0.014667	0.01317	18.80499	18.33671	0.8781869	0.825826	0.8795062	0.05368019
0.037657	0.02424	16.15402	14.24155	0.0536295	0.1248538	0.0652672	-0.05958658
0.028271	0.01974	17.04597	15.48663	0.4980199	0.5553653	0.5049245	-0.05044087
0.039982	0.00087	30.61221	13.98139	0.8000974	0.6064101	0.6865983	0.08018817
0.024422	0.02668	15.73794	16.12225	0.4842718	0.5870404	0.4771408	-0.1098996
0.017633	0.02625	15.80857	17.53669	0.6590714	0.7678921	0.6498728	-0.1180193
0.001904	0.00051	32.93046	27.20242	0.0762174	0.2862309	0.3842844	0.09805355
0.034356	0.01165	19.33548	14.64004	0.8696365	0.7827438	0.8473851	0.0646413
0.009155	0.02034	16.91598	20.3833	0.9438614	0.8463685	0.7346703	-0.1116982
0.014923	0.0388	14.11224	18.26139	0.9148684	0.8111223	0.6788171	-0.1323052
0.026463	0.00054	32.71012	15.7736	0.9069361	0.7690631	0.8206844	0.05162134
0.025779	0.00123	29.10591	15.88739	0.194747	0.3668921	0.4616511	0.09475896
0.008415	0.00082	30.86602	20.74955	0.866056	0.746945	0.8224063	0.07546131
0.021501	3.77E-07	64.23652	16.67544	0.1755767	0.7217296	0.8117439	0.09001425
0.005787	3.22E-07	64.92238	22.37529	0.5264096	0.7403042	0.7917528	0.05144856
0.026442	0.00302	25.19508	15.77708	0.9057625	0.8119748	0.8649846	0.05300978
0.005819	0.00286	25.43443	22.35145	0.761895	0.8729528	0.7880629	-0.08488981
0.004006	0.00366	24.36291	23.97324	0.3232957	0.1775391	0.301518	0.123979
0.038285	0.00337	24.71747	14.16977	0.6856649	0.8356273	0.7757221	-0.05990518
0.030678	0.03518	14.53687	15.13173	0.7861194	0.8562778	0.7830733	-0.0732045
0.01904	0.0083	20.80768	17.20345	0.8214911	0.7569882	0.8104294	0.05344127
0.002354	0.00064	31.97053	26.28172	0.6681333	0.793272	0.6908656	-0.1024064
0.006003	0.00063	32.03583	22.21642	0.7856766	0.7009723	0.7624806	0.06150829
0.038044	0.00224	26.49556	14.19715	0.8746924	0.6948903	0.7714264	0.07653607
0.007046	0.03498	14.56185	21.5205	0.7445169	0.8064073	0.7060344	-0.1003729
0.026558	0.01651	17.82313	15.75798	0.8129401	0.7077044	0.8013148	0.09361047
0.044637	0.01401	18.53481	13.50309	0.7580301	0.8445041	0.7828476	-0.06165649
0.01661	0.03135	15.03789	17.79627	0.8882917	0.836873	0.8995164	0.06264343
0.018779	0.00493	23.07302	17.26326	0.8928847	0.7737153	0.6661406	-0.1075748
0.002577	1.23E-05	49.11017	25.8883	0.30752	0.6914049	0.7628027	0.07139768
0.012786	0.0071	21.48833	18.93256	0.2306814	0.1537573	0.2139263	0.06016905
0.018218	0.002	26.98913	17.39493	0.7224155	0.573454	0.6684546	0.09500056
0.040359	0.03487	14.57499	13.94063	0.0336419	0.0958202	0.0382388	-0.05758141
0.00047	0.00037	34.26719	33.27455	0.1789381	0.0915629	0.1778885	0.08632562
0.002218	0.00362	24.41677	26.54017	0.2289091	0.0908023	0.2291832	0.1383809
0.020623	0.01838	17.35578	16.85642	0.8566712	0.8003092	0.8538831	0.05357396
0.004996	0.00194	27.11207	23.01413	0.8993064	0.8281568	0.8851135	0.05695672
0.014365	8.12E-05	40.90312	18.4268	0.1907769	0.5792239	0.7208059	0.1415821
0.003791	0.00446	23.50525	24.21303	0.6237049	0.6913189	0.6285927	-0.06272625
7.67E-05	0.00016	37.97593	41.15421	0.6382246	0.7751944	0.6329247	-0.1422697
0.006605	0.01091	19.62336	21.80131	0.1285848	0.2394456	0.1022335	-0.137212
0.027315	0.03106	15.07797	15.63597	0.8414985	0.7858173	0.8437838	0.0579665
0.012668	0.01825	17.38784	18.97291	0.2003427	0.1432905	0.2050116	0.06172112
0.019549	0.00062	32.10545	17.08882	0.122118	0.3015401	0.3929229	0.09138273
0.050007	1.51E-07	68.20529	13.00968	0.3118764	0.7166964	0.6649123	-0.05178411
0.014616	0.00012	39.05663	18.3516	0.7784242	0.5907234	0.6594499	0.06872656
0.030506	0.01762	17.53922	15.15619	0.5726221	0.5109634	0.5638323	0.0528689
0.00987	0.00187	27.28893	20.05681	0.8477489	0.7251176	0.6390927	-0.0860248



0.013984	0.02723	15.6497	18.54376	0.7674306	0.8341365	0.7567428	-0.0773938
0.014813	0.0064	21.93529	18.29358	0.3389872	0.1716002	0.2955574	0.1239573
0.028768	0.01961	17.0752	15.41091	0.0499556	0.1248572	0.0632424	-0.0616148
0.017777	0.00389	24.10328	17.5013	0.8440404	0.7165113	0.8114145	0.09490323
0.003216	0.00022	36.5343	24.92674	0.2826346	0.1850869	0.2598923	0.07480539
2.76E-05	4.26E-05	43.71003	45.59018	0.6174123	0.7102324	0.613916	-0.09631643
0.010011	0.00328	24.84586	19.99519	0.8363814	0.7563396	0.815798	0.05945849
0.028768	0.01907	17.19583	15.41083	0.8944645	0.7797341	0.8734138	0.09367964
0.001431	0.00348	24.58213	28.44501	0.7746752	0.9048935	0.7798517	-0.1250418
0.011717	0.01312	18.82127	19.3119	0.6276656	0.7217412	0.6270775	-0.09466364
0.032976	0.02631	15.79816	14.81802	0.1182987	0.1877638	0.2673252	0.07956139
0.009324	0.01258	19.00402	20.30418	0.8820095	0.8043332	0.8795868	0.07525354
0.002495	0.0099	20.04255	26.02987	0.5104398	0.6338322	0.4808304	-0.1530018
0.013705	1.09E-06	59.62067	18.63122	0.8220761	0.6575202	0.7278379	0.07031772
0.000401	0.00225	26.47855	33.96857	0.8716606	0.9494946	0.8630885	-0.08640609
0.024451	0.02389	16.21873	16.11702	0.6328408	0.7136893	0.6361293	-0.07755999
0.016635	0.00272	25.66183	17.78973	0.8517581	0.7242332	0.8067124	0.08247926
0.004162	0.01323	18.78477	23.80647	0.3734992	0.4595275	0.5525095	0.09298201
0.007279	0.00493	23.06952	21.37946	0.7450184	0.8720918	0.7716957	-0.1003961
0.007087	0.00722	21.41374	21.49522	0.2869368	0.2031222	0.2952417	0.0921196
0.046006	0.00606	22.1758	13.37188	0.6156247	0.7005839	0.6455398	-0.05504414
0.001268	0.00055	32.59092	28.96817	0.7952535	0.8589106	0.8037689	-0.05514167
0.003676	0.00113	29.48209	24.34669	0.2676557	0.0741569	0.2155468	0.1413899
1.63E-05	1.38E-05	48.58962	47.87235	0.2296971	0.0693422	0.2252241	0.1558819
0.001032	0.0002	37.00705	29.86388	0.9439886	0.8407297	0.7200752	-0.1206544
0.029327	0.00454	23.42497	15.32731	0.8646562	0.7340669	0.6483636	-0.08570326
0.026397	0.01713	17.66206	15.78452	0.8842599	0.9418313	0.8901832	-0.0516481
0.012172	0.00601	22.21276	19.1463	0.259247	0.1590373	0.234713	0.07567566
0.02938	0.00094	30.25541	15.31951	0.1882031	0.2980776	0.380511	0.0824334
0.005009	0.00099	30.03013	23.00257	0.8870043	0.8136073	0.6764569	-0.1371504
0.046916	0.02052	16.87851	13.28681	0.2703479	0.4142711	0.3580766	-0.05619446
0.049228	0.00142	28.4701	13.0779	0.2561427	0.5004717	0.6137057	0.113234
9.95E-05	0.00011	39.7788	40.02215	0.2712574	0.1483541	0.2352871	0.08693295
0.027586	0.00396	24.02556	15.59316	0.8399426	0.7420884	0.669234	-0.07285441
0.017606	0.00012	39.1899	17.5435	0.1905129	0.3536342	0.4380628	0.08442862
0.033119	0.02787	15.54816	14.79928	0.7620628	0.8331088	0.763998	-0.06911083
0.012516	0.0054	22.67416	19.02541	0.8209968	0.7303277	0.6353773	-0.09495039
0.015139	0.01454	18.37387	18.19895	0.8315119	0.7234959	0.6253383	-0.09815757
0.003449	0.00198	27.0387	24.62316	0.7769609	0.8977412	0.7954746	-0.1022666
0.037539	0.03043	15.16746	14.25522	0.4985584	0.5532122	0.501056	-0.05215623
0.000165	1.18E-06	59.26845	37.82571	0.1645584	0.0681216	0.1356525	0.06753083
6.50E-05	4.19E-05	43.77891	41.87182	0.0958519	0.0397801	0.0997754	0.0599953
0.011141	0.02511	16.0014	19.53089	0.8446486	0.8955441	0.830133	-0.065411
0.002764	0.00035	34.51594	25.58502	0.920803	0.8135429	0.8909028	0.07735991
0.026589	0.00375	24.26093	15.75293	0.8677966	0.6911867	0.6062236	-0.08496305
0.024978	0.00841	20.75311	16.02446	0.2135102	0.1445966	0.1952054	0.05060882
0.009902	0.00201	26.97844	20.04291	0.8234866	0.6173674	0.7750022	0.1576348
0.038766	0.00295	25.30243	14.11549	0.7560717	0.6308362	0.7006708	0.06983458
0.007622	1.19E-05	49.25959	21.17959	0.4742438	0.7669386	0.8306795	0.0637409
0.012589	0.0005	32.98714	18.99999	0.8584652	0.7426562	0.802071	0.0594148
0.048823	0.00673	21.71867	13.11376	0.6539627	0.5482696	0.4757935	-0.07247615
0.003273	0.00058	32.35179	24.85051	0.1821164	0.0588111	0.1384063	0.07959519
0.019139	0.00012	39.23092	17.18087	0.7524694	0.5794972	0.6430286	0.06353132
0.001845	0.0014	28.55008	27.34053	0.2957026	0.1663796	0.2927822	0.1264026

3.59E-05	0.00268	25.72626	44.4513	0.6285482	0.692158	0.6057274	-0.08643065
0.007673	0.00478	23.20186	21.15034	0.068932	0.1876185	0.3237886	0.1361702
0.012619	0.00299	25.24564	18.98972	0.3358534	0.4875191	0.6234075	0.1358884
0.007628	0.00536	22.70702	21.17591	0.6818886	0.7502878	0.6904809	-0.05980691
0.00014	0.00644	21.91103	38.52919	0.4177871	0.4685256	0.3662147	-0.1023109
0.024691	0.01324	18.78224	16.07461	0.8474425	0.618853	0.789991	0.1711379
0.032616	0.02994	15.23742	14.86572	0.7133671	0.7964505	0.7210853	-0.07536522
0.000287	8.73E-05	40.59167	35.42253	0.7893769	0.8752431	0.7892658	-0.08597742
3.81E-05	1.25E-07	69.01374	44.19081	0.0974739	0.0214214	0.0854283	0.06400685
0.038036	0.00847	20.72243	14.19805	0.8435326	0.5994045	0.7336731	0.1342687
0.014991	0.00123	29.09522	18.24179	0.6558846	0.5409434	0.6063058	0.06536236
0.045179	0.02882	15.40329	13.45063	0.8745849	0.797258	0.7310792	-0.06617889
0.000288	0.00012	39.25183	35.4117	0.6308029	0.7223948	0.633496	-0.08889885
0.024237	0.03118	15.06069	16.1552	0.8941209	0.8129407	0.7132989	-0.09964181
0.006563	0.00489	23.10642	21.82906	0.80058	0.6054463	0.7822868	0.1768405
9.40E-05	2.47E-05	46.07536	40.26997	0.1511098	0.0579362	0.1342473	0.07631119
0.001817	0.03993	13.98711	27.40741	0.8053595	0.8561414	0.7631494	-0.09299202
0.027973	0.02053	16.8761	15.53255	0.1393221	0.0695214	0.1310728	0.06155135
0.043903	0.00271	25.6717	13.57508	0.8369035	0.7666517	0.7086115	-0.05804018
0.001286	0.00392	24.06845	28.90831	0.1809698	0.0632649	0.1690287	0.1057638
0.005287	0.02833	15.47776	22.76787	0.7401763	0.8218399	0.7056943	-0.1161456
0.043413	0.00512	22.90701	13.62379	0.896639	0.8092107	0.7446352	-0.06457546
0.001923	0.00104	29.81149	27.16049	0.5282335	0.5844355	0.5215462	-0.06288932
0.020258	0.00474	23.24621	16.93404	0.867949	0.77859	0.8368772	0.05828713
0.000264	5.73E-05	42.42196	35.78678	0.7615154	0.8684634	0.7844761	-0.08398733
0.024901	0.00676	21.69939	16.03788	0.205088	0.3351074	0.3952877	0.06018032
0.016139	0.0472	13.26072	17.92129	0.6441076	0.7274854	0.6125367	-0.1149488
0.039227	0.02328	16.32943	14.06412	0.7492015	0.8448743	0.7804847	-0.06438963
0.000155	0.00036	34.48063	38.09479	0.8395353	0.9258326	0.8296923	-0.09614033
0.01651	0.00172	27.65378	17.82261	0.864581	0.8088222	0.7255746	-0.08324757
1.87E-05	1.13E-05	49.48249	47.27732	0.6461589	0.8300413	0.6465283	-0.1835131
0.01478	0.03103	15.08268	18.30337	0.8149592	0.8962508	0.8057839	-0.09046697
0.030088	0.00561	22.51276	15.21612	0.8091261	0.665526	0.7514625	0.08593652
0.001689	0.00493	23.07182	27.72323	0.1569047	0.1023629	0.1725768	0.07021391
0.005057	0.02446	16.11523	22.9612	0.8859323	0.8124819	0.7071695	-0.1053124
0.00582	1.07E-05	49.68906	22.35109	0.1137441	0.3653567	0.4613361	0.09597948
0.017569	0.00026	35.92417	17.5525	0.8672166	0.740075	0.8180371	0.07796212
0.008698	8.61E-05	40.65163	20.60574	0.7432904	0.6484438	0.7132031	0.06475931
0.027087	0.04172	13.79659	15.67247	0.6623744	0.7298875	0.6478246	-0.08206286
0.030765	0.01494	18.25535	15.11938	0.19732	0.1180863	0.1787606	0.06067438
0.011492	0.01004	19.98124	19.39586	0.6485269	0.7702082	0.661244	-0.1089642
0.006685	0.00286	25.43884	21.7491	0.8352323	0.7737174	0.8254222	0.05170479
0.045449	0.03552	14.49522	13.42474	0.0505388	0.1183541	0.1937495	0.07539535
0.001659	6.95E-05	41.57837	27.80096	0.2225421	0.129528	0.1987355	0.06920745
0.016002	6.43E-05	41.91512	17.95829	0.0682145	0.2427629	0.344341	0.1015781
0.024356	0.00356	24.48384	16.13385	0.3461794	0.2762884	0.3331207	0.05683231
0.005186	0.00815	20.88882	22.85131	0.6707169	0.7317472	0.6629212	-0.06882592
0.001123	0.03659	14.36606	29.49596	0.240331	0.3214055	0.4897369	0.1683315
0.0033	0.00155	28.09214	24.81493	0.5855486	0.5166985	0.5866691	0.0699706
0.005286	0.00113	29.47584	22.76913	0.7578932	0.8527464	0.7820179	-0.07072841
0.000608	2.20E-05	46.57673	32.16235	0.7982234	0.8854362	0.7382641	-0.1471721
0.00379	0.00547	22.61995	24.21394	0.8199594	0.9061154	0.7957196	-0.1103958
0.014541	0.00311	25.06776	18.37421	0.8495098	0.7092011	0.8023916	0.09319051
2.80E-05	0.00063	32.00815	45.52577	0.6868707	0.7680691	0.6410013	-0.1270679

0.020357	0.00976	20.10377	16.91294	0.1287497	0.0675446	0.1178793	0.05033471
0.00517	0.00876	20.57307	22.86512	0.7388517	0.8535318	0.7376539	-0.1158779
0.006303	0.00913	20.39315	22.00447	0.56159	0.6456348	0.7308764	0.08524165
0.016868	0.01249	19.03303	17.7293	0.4807912	0.3428916	0.472081	0.1291894
0.048184	0.0069	21.61103	13.17098	0.8357326	0.7452006	0.7991388	0.05393825
0.023497	0.02031	16.9223	16.28987	0.8702816	0.7022889	0.5407652	-0.1615237
0.040697	0.00126	28.9999	13.90438	0.6494635	0.5132788	0.4500791	-0.06319975
0.005236	0.00088	30.5695	22.81025	0.2708766	0.1808487	0.2450641	0.06421544
0.03584	0.01019	19.91988	14.45626	0.8469533	0.7608513	0.8211914	0.06034016
0.002307	0.00237	26.24592	26.36873	0.900979	0.9583586	0.9078338	-0.05052476
0.020068	0.03605	14.43109	16.97493	0.7996326	0.7270448	0.5933422	-0.1337025
0.046418	0.03523	14.53085	13.33316	0.0534893	0.1927353	0.3217732	0.1290379
0.034946	0.02398	16.20155	14.56605	0.8893964	0.8107637	0.8804605	0.0696968
0.024839	0.00021	36.80619	16.04859	0.7245982	0.5383544	0.6161383	0.07778393
0.007819	0.00152	28.17338	21.06855	0.7930942	0.8775728	0.8168262	-0.06074666
0.006095	0.02239	16.49934	22.15015	0.8157603	0.8904901	0.7877856	-0.1027045
0.041245	0.04702	13.27755	13.84626	0.2213545	0.3883601	0.2126351	-0.175725
0.012555	0.00848	20.71795	19.01197	0.8433411	0.899794	0.8478217	-0.05197238
0.012862	0.01238	19.07219	18.90708	0.5668243	0.6961991	0.5670715	-0.1291276
0.000658	0.00054	32.66558	31.82101	0.8095497	0.6469699	0.7976946	0.1507247
0.007633	7.25E-06	51.39563	21.17302	0.8296084	0.6256319	0.5485026	-0.07712929
0.046579	0.01827	17.38315	13.3181	0.8886856	0.8180139	0.8680452	0.05003132
0.003269	0.00082	30.85882	24.85568	0.7757418	0.6962183	0.7621894	0.06597114
0.040981	0.03222	14.91857	13.87413	0.5645605	0.4963113	0.559746	0.06343476
0.044198	0.0148	18.29615	13.54601	0.9157147	0.8437105	0.8966473	0.05293682
0.0005	0.00199	27.00521	33.00695	0.1020998	0.0463652	0.10756	0.06119487
0.01462	0.00923	20.34943	18.3504	0.8477556	0.6143347	0.4303548	-0.1839799
0.009579	0.00859	20.65963	20.18682	0.1273649	0.067526	0.121014	0.05348798
0.009324	0.00195	27.09586	20.30418	0.6658419	0.739397	0.6821696	-0.05722753
0.021304	0.02069	16.84313	16.71547	0.8596625	0.7463001	0.8543863	0.1080863
0.030675	0.01664	17.78845	15.13219	0.8095283	0.7154952	0.7956145	0.08011928
0.047367	3.69E-06	54.33334	13.2452	0.7265546	0.4742526	0.5255122	0.05125961
0.045097	0.03609	14.42562	13.45853	0.8476508	0.6609636	0.8311601	0.1701965
2.43E-05	0.00019	37.19318	46.15101	0.79388	0.8549951	0.7717094	-0.08328564
0.002105	0.00311	25.07082	26.76807	0.8606344	0.7729941	0.679693	-0.09330104
0.026952	0.03595	14.44295	15.69402	0.7689683	0.5675933	0.793946	0.2263528
0.037289	0.01373	18.62298	14.28414	0.9328053	0.8323766	0.899481	0.06710436
5.86E-05	1.20E-05	49.22628	42.32075	0.8419397	0.9133785	0.8320369	-0.08134167
0.003562	0.0004	33.95278	24.48333	0.1002944	0.0328255	0.0907898	0.05796434
0.000715	0.00015	38.11442	31.4544	0.201838	0.1092451	0.1785001	0.06925501
0.008826	0.00744	21.28402	20.5424	0.2391395	0.1600909	0.2251338	0.06504294
0.00498	0.0011	29.57222	23.02767	0.283369	0.5178775	0.3824623	-0.1354152
0.029507	0.01008	19.9642	15.30079	0.8356215	0.6561919	0.5425192	-0.1136727
0.005955	0.00508	22.94164	22.25103	0.579887	0.6693788	0.5803865	-0.08899232
0.04499	0.04484	13.48352	13.46888	0.8474454	0.768307	0.8440489	0.07574189
0.031799	0.00571	22.43235	14.97585	0.8720038	0.6738507	0.7934024	0.1195518
0.015772	0.0191	17.18974	18.02106	0.1798209	0.1241256	0.1825414	0.05841586
0.038314	9.33E-05	40.29958	14.16644	0.7723458	0.6734316	0.6103525	-0.06307914
0.004352	0.00429	23.67987	23.61352	0.7044656	0.7855957	0.6993226	-0.08627305
0.010348	0.00533	22.73633	19.85126	0.8450752	0.7559252	0.8336666	0.07774138
0.000892	0.00217	26.62864	30.49439	0.6523641	0.7587593	0.6562425	-0.1025168
0.010169	0.01276	18.94318	19.92726	0.9012164	0.8386323	0.9081919	0.06955964
0.013454	0.00496	23.04719	18.71152	0.797872	0.8862371	0.8243095	-0.06192765
0.003915	0.00063	31.97749	24.07287	0.7960823	0.6892534	0.7655635	0.07631008

0.003778	0.00444	23.52761	24.22729	0.7756683	0.7103593	0.7785631	0.06820386
0.020174	0.00179	27.46047	16.95206	0.7914463	0.6450207	0.7283921	0.08337136
0.047684	0.00914	20.38942	13.21626	0.9017789	0.7750207	0.8535584	0.0785377
0.017461	0.00132	28.78098	17.57927	0.7501352	0.5552864	0.6506587	0.09537224
0.018573	2.62E-05	45.81835	17.31117	0.8448995	0.6848495	0.5946308	-0.09021876
0.038124	0.00748	21.26164	14.18804	0.1610007	0.0825116	0.1334987	0.05098713
0.014803	0.01056	19.76163	18.29647	0.5704727	0.6359271	0.5755266	-0.06040049
0.018643	7.54E-05	41.22353	17.29483	0.2082663	0.3394715	0.4035634	0.06409191
0.039879	0.01023	19.90322	13.99261	0.2895342	0.4335127	0.3562274	-0.07728533
0.000131	0.00176	27.54536	38.8125	0.6723398	0.7904735	0.6321388	-0.1583346
0.005992	0.0066	21.80676	22.22433	0.8247842	0.7534443	0.8077424	0.0542981
0.004126	0.00982	20.07994	23.84485	0.3841805	0.3031597	0.4005279	0.09736819
0.002128	0.00341	24.67867	26.72102	0.8747365	0.9317455	0.8737089	-0.0580366
0.0112	0.02935	15.32405	19.50765	0.8398867	0.8919069	0.8242331	-0.06767382
0.024511	1.14E-07	69.41914	16.10638	0.0641477	0.2384752	0.308102	0.06962676
0.014647	4.39E-07	63.57726	18.34243	0.0990508	0.7150955	0.8073621	0.09226667
0.034527	0.01025	19.89273	14.61847	0.8778308	0.7963786	0.850505	0.05412644
0.00092	0.00175	27.56536	30.36219	0.1312821	0.0656739	0.136032	0.07035802
0.021746	0.00045	33.46497	16.62618	0.3602772	0.4540229	0.5405192	0.08649637
0.019473	0.01934	17.13468	17.10572	0.8929288	0.792082	0.8847283	0.09264629
0.027723	0.00077	31.15888	15.57165	0.7804561	0.5528975	0.6373541	0.0844567
0.00015	8.01E-05	40.96431	38.24984	0.7460257	0.8199676	0.7504559	-0.06951169
0.00768	0.00797	20.98612	21.14615	0.9044793	0.8229792	0.9001507	0.07717155
0.002867	0.00689	21.61735	25.42591	0.6925032	0.8149933	0.68058	-0.1344134
0.042469	0.00723	21.40812	13.71933	0.2023478	0.1154187	0.1702929	0.05487417
0.044115	0.00279	25.54819	13.5541	0.7613845	0.5247935	0.4112485	-0.113545
0.012426	0.0026	25.84524	19.05654	0.0564401	0.3966064	0.5694788	0.1728724
1.14E-05	4.36E-05	43.60845	49.4134	0.1204072	0.0546169	0.1251514	0.07053451
0.001935	0.00102	29.92337	27.13334	0.7355666	0.8061659	0.710431	-0.09573494
0.044794	0.02156	16.66415	13.48779	0.3225731	0.4358023	0.5209258	0.08512344
0.025596	0.01112	19.53716	15.91827	0.2859699	0.1421772	0.2419605	0.09978327
0.025707	0.00726	21.38972	15.89943	0.2854106	0.4631287	0.3305319	-0.1325969
0.032559	0.01854	17.31827	14.87326	0.8548529	0.9266375	0.869531	-0.0571065
0.028156	0.03605	14.43093	15.5043	0.5087685	0.6360056	0.491317	-0.1446886
0.000639	0.00137	28.62993	31.94611	0.5455141	0.6696774	0.53359	-0.1360874
0.026467	0.03363	14.73262	15.77292	0.05452	0.1855733	0.3221155	0.1365422
0.001287	0.00359	24.44994	28.90439	0.6992596	0.7718927	0.6758577	-0.09603497
0.000794	4.54E-05	43.42715	31.00047	0.4078846	0.2945263	0.3927928	0.0982665
0.032698	0.0158	18.01415	14.8548	0.7111549	0.7765461	0.723648	-0.05289807
0.004379	0.00136	28.65018	23.58646	0.6188414	0.717643	0.615625	-0.1020179
0.000378	0.00223	26.51348	34.2201	0.3827422	0.2521475	0.3802772	0.1281297
0.000139	8.47E-06	50.72087	38.56163	0.2019838	0.1096494	0.1901615	0.08051204
0.049194	0.00387	24.1262	13.08087	0.8137783	0.7418828	0.6609589	-0.08092389
0.00351	0.02144	16.68814	24.54711	0.5242113	0.6062746	0.4836242	-0.1226503
0.000386	3.74E-05	44.27177	34.138	0.1461808	0.063273	0.1328547	0.06958168
0.017389	0.00371	24.31113	17.59724	0.8457452	0.7670958	0.8221316	0.05503579
0.046611	0.03331	14.77487	13.31508	0.5451058	0.6540894	0.5583158	-0.09577361
0.033355	0.02054	16.87308	14.76837	0.6962668	0.8135643	0.7199326	-0.09363177
0.030735	0.00299	25.25034	15.12365	0.7546819	0.6403543	0.5820619	-0.05829231
0.003807	7.30E-06	51.36889	24.19409	0.2108825	0.1155912	0.1700622	0.0544711
0.035203	0.0003	35.29224	14.53418	0.2095118	0.2870285	0.3589036	0.07187504
0.027931	0.02833	15.47797	15.53909	0.4260124	0.4861163	0.4259279	-0.06018832
0.000348	1.97E-08	77.05972	34.58626	0.651978	0.851696	0.7984595	-0.05323648
0.002471	0.014	18.53798	26.0716	0.6522315	0.5474964	0.473833	-0.07366343

0.018581	0.00164	27.84884	17.3094	0.6208277	0.7669644	0.8476158	0.08065145
0.010753	0.05001	13.00976	19.68451	0.7297782	0.7978548	0.6981649	-0.09968981
0.000106	9.77E-07	60.09888	39.75455	0.875554	0.9534367	0.8437904	-0.1096463
0.013421	0.02077	16.82658	18.7223	0.6373735	0.7051526	0.6240693	-0.08108328
0.02379	0.00092	30.38401	16.23608	0.3424454	0.1835328	0.2802331	0.09670033
0.000298	2.35E-05	46.29795	35.25408	0.8658552	0.6726645	0.8037041	0.1310397
0.003085	0.00779	21.08326	25.10698	0.7511377	0.8811839	0.7348313	-0.1463526
0.01546	0.00912	20.39777	18.10789	0.1042704	0.2986814	0.4800369	0.1813554
0.018331	0.00811	20.90849	17.36814	0.8622878	0.6378792	0.8265226	0.1886435
0.014743	0.01064	19.73152	18.31404	0.89918	0.8049029	0.8853882	0.08048531
0.022837	0.00203	26.91961	16.41355	0.8646897	0.6493692	0.7768924	0.1275232
0.009782	0.00125	29.04726	20.09558	0.3526615	0.554808	0.6898355	0.1350275
0.029307	0.00125	29.02276	15.33027	0.7982085	0.6695536	0.6015417	-0.06801186
0.047504	0.00431	23.65216	13.23267	0.5590358	0.4382093	0.5423164	0.1041071
0.024154	0.00044	33.5836	16.17017	0.8311981	0.7127413	0.7693144	0.05657317
0.021126	0.02299	16.38548	16.75188	0.8905367	0.7723796	0.8892258	0.1168462
0.04349	0.01403	18.52987	13.61607	0.1361531	0.2894261	0.4070519	0.1176258
0.008885	0.0047	23.27725	20.51362	0.7960935	0.6524189	0.7809042	0.1284853
0.001471	0.00028	35.5906	28.32531	0.3803746	0.5515192	0.6492131	0.09769395
0.008055	0.00918	20.36952	20.93951	0.7301415	0.7910456	0.7237233	-0.06732231
0.001333	0.00319	24.95823	28.75068	0.8255557	0.9003562	0.8231971	-0.07715915
0.024865	0.00101	29.96731	16.04413	0.6154876	0.5017353	0.5592487	0.05751344
0.024081	0.00955	20.20166	16.18327	0.199454	0.4355299	0.6082343	0.1727045
0.027709	0.02703	15.68119	15.5738	0.8294523	0.892792	0.8290471	-0.06374481
0.02691	0.04084	13.88874	15.7009	0.7379205	0.8303308	0.7246202	-0.1057105
0.049476	0.00572	22.42363	13.05603	0.1083004	0.0482919	0.1146955	0.06640359
0.008804	0.00576	22.39662	20.55303	0.8356715	0.5286903	0.7860154	0.2573251
0.041468	1.39E-06	58.56525	13.82288	0.2381419	0.4999942	0.5651628	0.06516863
0.005345	1.79E-05	47.46166	22.72042	0.8199883	0.6574842	0.7236311	0.06614691
1.49E-05	0.00013	38.92882	48.28183	0.5500385	0.6212848	0.5233438	-0.09794103
0.015014	0.03598	14.43939	18.23516	0.8296555	0.8800958	0.8141117	-0.06598415
0.018773	0.01025	19.89108	17.2646	0.6296363	0.6962514	0.6410106	-0.05524081
0.022762	0.0077	21.13763	16.42793	0.9180175	0.7707039	0.8757214	0.1050175
0.006734	0.00417	23.79608	21.71696	0.7778404	0.6929467	0.7693976	0.07645097
0.003048	0.00295	25.30309	25.15974	0.7004502	0.8099051	0.6905568	-0.1193482
0.005616	0.00603	22.20039	22.50593	0.8098242	0.8730728	0.8076082	-0.06546459
0.046002	0.04353	13.61186	13.37228	0.5383356	0.6043203	0.541312	-0.06300832
0.001493	0.00082	30.85111	28.25877	0.5575236	0.6800587	0.5702344	-0.1098243
0.010946	0.0087	20.60491	19.60726	0.2040723	0.1279414	0.2078704	0.07992899
0.014092	0.01835	17.36407	18.5104	0.6756387	0.73461	0.6736704	-0.06093953
0.011564	0.00831	20.80567	19.369	0.8908194	0.9437172	0.8936505	-0.05006672
0.010945	0.00248	26.06184	19.60783	0.8667914	0.6765543	0.8135895	0.1370352
0.028367	0.01757	17.5525	15.47182	0.8478153	0.729278	0.6380308	-0.09124722
0.008541	0.0118	19.28205	20.68508	0.8282274	0.8784152	0.826108	-0.05230722
0.04654	0.03181	14.97437	13.32173	0.8771961	0.7770924	0.8659595	0.08886717
0.001702	0.00113	29.45918	27.69008	0.1379558	0.0364478	0.0988983	0.06245055
0.033646	0.01914	17.18068	14.73071	0.862093	0.7671892	0.6654477	-0.1017415
0.016943	0.0274	15.62269	17.70998	0.8499936	0.797364	0.8599792	0.06261513
0.015414	0.00147	28.33222	18.12097	0.7670109	0.8409418	0.7749063	-0.06603543
0.042415	0.00098	30.07693	13.7248	0.8777934	0.7489809	0.6463103	-0.1026706
0.01747	0.00287	25.41925	17.57695	0.798531	0.6656659	0.7537912	0.08812524
8.63E-06	1.83E-06	57.37112	50.64066	0.5388922	0.6446986	0.5468403	-0.09785835
0.019433	0.01721	17.64251	17.11453	0.5893927	0.7107798	0.5911435	-0.1196364
0.005264	0.00535	22.71342	22.78695	0.2181228	0.1282241	0.2101386	0.08191458

0.017776	0.0041	23.8672	17.50156	0.3414634	0.4391246	0.4980271	0.05890242
0.006773	0.01099	19.59068	21.69199	0.1154646	0.1698177	0.2971303	0.1273125
0.002418	0.00025	36.06757	26.16546	0.5948997	0.4058253	0.4751324	0.06930709
0.000842	0.00025	36.00076	30.7476	0.2787898	0.2027992	0.2648174	0.0620183
0.003593	0.00128	28.93039	24.4456	0.8351844	0.7462634	0.8184602	0.07219677
0.022172	0.0054	22.67348	16.54193	0.8796282	0.6860132	0.8116904	0.1256772
0.002158	0.00335	24.74968	26.65933	0.2127274	0.4073623	0.5617701	0.1544079
0.024044	0.00077	31.1476	16.18996	0.3302408	0.2636467	0.3163824	0.05273573
0.002715	0.00475	23.22865	25.66305	0.7433519	0.6775833	0.5954257	-0.08215755
0.035073	0.00053	32.73555	14.55022	0.6848953	0.3713593	0.4997275	0.1283682
0.027181	0.03412	14.67027	15.65729	0.2634161	0.1739367	0.2653238	0.09138712
0.025184	0.02378	16.23725	15.98879	0.8274053	0.6260028	0.4516685	-0.1743343
0.04052	0.04802	13.18566	13.92333	0.783317	0.6512431	0.7932702	0.1420272
0.032548	0.01395	18.55309	14.87478	0.893846	0.7874434	0.8654246	0.07798117
7.69E-05	3.42E-05	44.65838	41.14204	0.5521783	0.3956155	0.5216015	0.125986
0.047857	0.00054	32.68534	13.20059	0.75726	0.5120177	0.4334662	-0.07855142
0.00427	0.02295	16.39226	23.69614	0.5161937	0.5808257	0.487088	-0.09373778
0.035543	0.02244	16.48955	14.49242	0.857765	0.7156859	0.8319921	0.1163062
0.035852	0.0223	16.51624	14.45492	0.8937921	0.8287895	0.890651	0.06186153
0.04767	0.0007	31.54569	13.21753	0.8493453	0.7077733	0.7685823	0.06080908
0.039086	0.04467	13.49947	14.07984	0.5117392	0.6012772	0.5093164	-0.09196087
0.020811	0.02264	16.4519	16.81708	0.4757772	0.6694388	0.4704433	-0.1989956
0.041548	1.32E-06	58.79107	13.81445	0.8069275	0.6107428	0.537198	-0.07354482
0.006596	0.00197	27.05446	21.80711	0.3506985	0.4410522	0.3848491	-0.05620307
0.002105	0.00761	21.18839	26.76668	0.5251899	0.6040394	0.518451	-0.0855883
0.026946	0.00226	26.45771	15.69507	0.655741	0.5492677	0.481042	-0.06822573
0.005544	0.00267	25.7379	22.56207	0.785327	0.8826331	0.7891361	-0.09349708
0.002196	0.00164	27.85244	26.5837	0.7756081	0.830593	0.7765657	-0.05402729
0.017276	0.00976	20.10432	17.62548	0.2633151	0.1736728	0.2559516	0.08227879
0.024961	0.01851	17.3265	16.02744	0.9218068	0.8154832	0.9124106	0.0969274
0.041538	0.03745	14.26596	13.81555	0.8518111	0.7977961	0.7342706	-0.06352552
0.005191	0.01405	18.52447	22.84739	0.5914594	0.6471315	0.5791568	-0.06797477
0.005135	0.00361	24.42576	22.895	0.6258566	0.7250176	0.629541	-0.09547656
0.007595	0.00145	28.3875	21.19473	0.9165242	0.728	0.8591492	0.1311492
0.032473	0.01449	18.39012	14.8848	0.264381	0.1382241	0.2389857	0.1007616
0.036399	0.02314	16.35566	14.38905	0.1173291	0.2667835	0.1388832	-0.1279003
0.002467	0.006	22.21741	26.07781	0.6710085	0.7252046	0.6648033	-0.06040122
0.038428	0.02548	15.9379	14.15355	0.2749909	0.4439845	0.5955703	0.1515858
0.049999	9.60E-06	50.17677	13.0104	0.8353668	0.5256778	0.461544	-0.06413376
0.005742	0.00296	25.28926	22.40941	0.6814445	0.7609978	0.6889715	-0.07202635
0.009636	0.00975	20.11089	20.16091	0.8085939	0.6713941	0.5483876	-0.1230064
0.00937	0.00492	23.08379	20.28268	0.1836014	0.0879783	0.1662566	0.0782783
0.019873	0.0461	13.36264	17.01732	0.2472721	0.1754724	0.240687	0.06521455
0.027405	0.00309	25.10544	15.62175	0.3681929	0.2598636	0.3316342	0.07177059
0.000467	0.0044	23.56434	33.30663	0.6263897	0.6956847	0.5696272	-0.1260574
0.01408	0.00322	24.91539	18.5141	0.8792408	0.7650692	0.8375967	0.07252754
0.001117	0.00054	32.69953	29.51847	0.1972327	0.132271	0.1893973	0.05712632
4.06E-05	9.32E-05	40.30762	43.91964	0.2419436	0.062341	0.1983399	0.1359989
0.019508	0.0071	21.48965	17.0979	0.8902501	0.753622	0.8504341	0.09681212
0.003056	0.00033	34.79361	25.14838	0.8558723	0.9417914	0.8837788	-0.05801269
0.015984	0.03144	15.02469	17.96303	0.1790116	0.0786732	0.1954619	0.1167887
0.035462	0.04495	13.47246	14.50236	0.0291906	0.0985405	0.23053	0.1319896
0.001527	5.22E-05	42.82563	28.16255	0.3066846	0.1267914	0.2384661	0.1116747
0.012502	0.00778	21.09043	19.03004	0.470361	0.565807	0.4961916	-0.06961539

0.028943	0.03106	15.07788	15.38462	0.6728716	0.7716609	0.669781	-0.1018798
0.023164	0.01394	18.55774	16.35192	0.3080233	0.2462058	0.3000685	0.05386269
0.01534	0.03405	14.67914	18.14178	0.8869444	0.7823085	0.9138538	0.1315454
0.034866	0.02326	16.33403	14.57593	0.7501855	0.6172965	0.7363217	0.1190252
0.007223	0.00037	34.30406	21.41268	0.8135278	0.6368966	0.738774	0.1018774
0.000473	0.00024	36.28163	33.24797	0.1116021	0.037058	0.1006952	0.06363717
0.026897	0.04685	13.29245	15.70299	0.618457	0.6998572	0.6025038	-0.09735345
0.005579	0.00277	25.57881	22.53476	0.8960124	0.8373149	0.7761658	-0.06114916
0.000616	0.0001	39.86402	32.10103	0.1760481	0.1032198	0.1620127	0.05879286
0.000296	0.00013	38.75133	35.28864	0.8935441	0.9602396	0.9089618	-0.05127782
7.39E-05	3.37E-08	74.72192	41.31524	0.2398667	0.0872778	0.22057	0.1332921
1.67E-05	9.33E-06	50.29897	47.76432	0.7126572	0.785201	0.6980796	-0.08712135
0.027392	0.01742	17.58885	15.6237	0.8237078	0.7681053	0.8192375	0.0511322
0.015685	0.00187	27.29157	18.04506	0.7850444	0.6575813	0.7401279	0.08254664
0.015607	0.03211	14.93333	18.06693	0.8707657	0.9254704	0.8036683	-0.121802
0.000654	0.00097	30.13846	31.84311	0.2395513	0.1453702	0.2461676	0.1007974
0.025846	0.02207	16.56109	15.87607	0.0851917	0.2038835	0.3285592	0.1246757
2.51E-05	2.11E-05	46.76057	46.00682	0.5349898	0.6950392	0.5499948	-0.1450444
0.033019	0.00398	23.99678	14.81242	0.2876824	0.5651612	0.7019587	0.1367974
0.006032	2.29E-05	46.40016	22.19534	0.6890113	0.4972175	0.6067886	0.1095711
0.035814	0.02442	16.12205	14.45953	0.4688466	0.622682	0.5088065	-0.1138755
0.012967	1.50E-05	48.22665	18.87155	0.3378363	0.8337552	0.6802433	-0.1535119
0.004062	0.01452	18.38007	23.91307	0.7754138	0.8318588	0.7509388	-0.08092003
0.012227	0.02346	16.29616	19.12687	0.7181342	0.5705847	0.7450058	0.1744211
0.019575	0.04395	13.57042	17.08295	0.0848399	0.215817	0.0438186	-0.1719984
0.023158	0.03892	14.09847	16.35303	0.5837226	0.6484942	0.5676614	-0.08083285
0.000147	0.00027	35.70353	38.31467	0.4435372	0.5127676	0.4250469	-0.08772074
0.010094	0.00103	29.87782	19.95927	0.8578337	0.759383	0.8215414	0.06215834
0.006646	2.05E-05	46.89264	21.77454	0.0743094	0.4688013	0.5783738	0.1095725
0.039498	0.02882	15.40283	14.03424	0.7105669	0.8162397	0.7196859	-0.09655381
0.002532	3.39E-05	44.70219	25.96585	0.1239355	0.0649301	0.1154451	0.05051505
0.036059	0.01931	17.14144	14.42986	0.8939433	0.7502197	0.6456007	-0.104619
0.039685	0.00054	32.67257	14.01377	0.1078479	0.3751906	0.2613916	-0.1137989
0.022561	0.00958	20.18687	16.46638	0.8213101	0.7079495	0.797649	0.0896996
0.042281	0.02664	15.74428	13.73858	0.0213366	0.0993519	0.0357786	-0.06357335
0.049812	0.02615	15.82536	13.0267	0.8761382	0.7300642	0.8500802	0.120016
0.042912	0.02651	15.76651	13.67417	0.8775945	0.7938105	0.863268	0.0694574
0.037248	0.03759	14.24949	14.28893	0.6225866	0.7124751	0.6214138	-0.09106124
0.029685	0.00122	29.14145	15.2746	0.0503242	0.2371752	0.3964569	0.1592817
0.008941	0.00261	25.83732	20.48636	0.8912031	0.8258638	0.8777547	0.05189099
0.003638	0.00208	26.81942	24.39121	0.8179619	0.7611222	0.8128819	0.05175966
0.000737	0.00302	25.20163	31.32714	0.6980622	0.811046	0.6800662	-0.1309797
0.01686	1.24E-06	59.08173	17.73147	0.2425187	0.7168534	0.7684169	0.05156344
0.004405	0.03081	15.11355	23.56078	0.7628561	0.8266696	0.7108423	-0.1158272
0.006257	0.00194	27.11647	22.03608	0.8515564	0.9166477	0.8582661	-0.05838168
0.004677	0.00731	21.35959	23.30071	0.7596626	0.695325	0.623489	-0.07183601
0.034834	0.03467	14.59986	14.57997	0.8408247	0.9017342	0.8413978	-0.06033648
0.008286	0.00595	22.25761	20.81644	0.6846783	0.7918236	0.7051607	-0.08666288
0.034126	0.0022	26.57228	14.66912	0.907732	0.7435852	0.8274195	0.08383427
0.016585	0.02075	16.83036	17.80272	0.743138	0.8515276	0.7503054	-0.1012221
0.000107	8.83E-05	40.5428	39.69093	0.4906772	0.6143491	0.4858085	-0.1285406
0.029184	0.01248	19.0376	15.34859	0.8438882	0.7720218	0.8258784	0.05385663
0.00412	0.00427	23.70069	23.85095	0.0182517	0.0814841	0.023063	-0.05842111
0.006037	0.00074	31.31852	22.19215	0.7246365	0.6338974	0.5676711	-0.06622633

0.01278	0.00307	25.1243	18.93478	0.7483029	0.6301977	0.7110949	0.0808972
0.000188	0.00162	27.91813	37.26509	0.7839047	0.8784397	0.7865788	-0.09186085
0.046854	0.0035	24.55883	13.29255	0.5608147	0.7125891	0.7914501	0.07886101
0.020142	0.01607	17.93994	16.95906	0.7946447	0.7079734	0.7871064	0.07913291
0.002656	0.02835	15.47381	25.758	0.8405222	0.8923339	0.795968	-0.09636585
0.00127	0.00133	28.77535	28.96146	0.1582977	0.0716172	0.1623319	0.09071469
0.023601	0.01852	17.32405	16.27069	0.7016749	0.8084307	0.71572	-0.09271073
0.009259	0.02369	16.25499	20.33413	0.2810508	0.1980628	0.2952296	0.09716679
0.011767	0.00509	22.93653	19.29322	0.8686748	0.7466496	0.6354591	-0.1111905
0.048069	0.03216	14.92657	13.18139	0.7200472	0.6296276	0.5474706	-0.08215698
0.032407	5.58E-07	62.53197	14.89358	0.1026625	0.7536685	0.8490475	0.09537902
0.001255	0.00169	27.71741	29.01446	0.8582149	0.918862	0.8565611	-0.06230082
0.002428	0.0001	39.86959	26.14715	0.8037393	0.6879649	0.767552	0.07958709
9.97E-05	0.00032	34.94259	40.01157	0.1184715	0.0518387	0.1180685	0.06622984
0.001025	0.00539	22.68595	29.89371	0.5505992	0.6160854	0.5342616	-0.08182381
0.027092	0.00047	33.2364	15.67158	0.4800045	0.747766	0.6518885	-0.09587741
0.031447	0.03227	14.9125	15.02423	0.6102744	0.3623195	0.6364633	0.2741439
0.041863	0.03726	14.28762	13.78167	0.1739663	0.2668076	0.3557316	0.08892401
0.000278	3.03E-05	45.19033	35.56565	0.2897313	0.1201219	0.2407859	0.120664
0.008317	0.00133	28.75591	20.8003	0.859523	0.7673154	0.8296497	0.06233429
0.027257	0.02621	15.81464	15.64524	0.4788989	0.6802399	0.4808513	-0.1993886
0.000756	0.00713	21.46978	31.2122	0.5342621	0.6225167	0.4653739	-0.1571428
0.04936	0.02684	15.71211	13.06625	0.8506513	0.794418	0.7241367	-0.07028125
0.001276	5.25E-07	62.79772	28.9428	0.8142062	0.6490845	0.518842	-0.1302425
0.00157	0.00114	29.41484	28.0398	0.87869	0.9424294	0.8858286	-0.05660086
0.005489	0.01443	18.40801	22.605	0.8369132	0.7410802	0.611532	-0.1295483
0.012952	0.00467	23.3061	18.87672	0.3170002	0.189908	0.2888857	0.09897774
0.045757	3.06E-06	55.13622	13.39543	0.1446374	0.686641	0.778196	0.09155495
0.011366	0.01539	18.12753	19.44389	0.6981241	0.7814441	0.7135772	-0.06786694
0.010928	0.01318	18.79967	19.61477	0.7392954	0.6227174	0.7312839	0.1085665
0.001478	0.00044	33.53508	28.3019	0.1478053	0.0633218	0.1319848	0.06866297
0.003449	1.30E-07	68.85316	24.62317	0.1807945	0.0810614	0.1505762	0.06951487
9.31E-05	3.58E-05	44.45525	40.3082	0.6663684	0.7574944	0.6705127	-0.08698181
0.029848	0.00808	20.92545	15.25084	0.8652298	0.7556313	0.6656315	-0.08999982
0.02799	3.92E-06	54.06358	15.52999	0.2869209	0.7158394	0.7737628	0.05792337
0.02678	0.02387	16.22209	15.72192	0.6432527	0.7671915	0.6547461	-0.1124454
6.59E-06	2.97E-06	55.27523	51.8124	0.2202241	0.084654	0.2037302	0.1190762
0.005678	0.00445	23.51955	22.45817	0.3501932	0.2411006	0.3538223	0.1127217
0.030667	0.00131	28.81313	15.13336	0.7609082	0.9157948	0.8371649	-0.07862988
0.008132	0.01737	17.60255	20.89779	0.7276461	0.6038721	0.4496168	-0.1542553
0.026725	0.00667	21.75758	15.7309	0.200084	0.4834822	0.6535109	0.1700288
0.000707	0.00093	30.3364	31.50823	0.7014465	0.8003086	0.7095118	-0.09079681
0.017328	0.00439	23.57105	17.61259	0.8310211	0.7278218	0.8049431	0.07712132
0.00523	0.00292	25.33896	22.8148	0.9144055	0.8347732	0.9116188	0.0768456
0.015196	0.00031	35.02021	18.18262	0.8289688	0.7440227	0.6541131	-0.08990961
0.026533	0.02683	15.71302	15.76216	0.8323314	0.6079684	0.8277347	0.2197662
0.046351	0.01662	17.79421	13.33945	0.8685534	0.5926369	0.4103232	-0.1823137
9.63E-06	1.73E-05	47.61543	50.16244	0.3572616	0.2066248	0.3611749	0.1545501
0.021002	0.02347	16.29482	16.77736	0.9160785	0.7870824	0.9134629	0.1263806
0.016279	0.00691	21.60221	17.88373	0.1407958	0.0710289	0.1245118	0.05348289
0.020067	0.02925	15.33939	16.97519	0.750439	0.8401831	0.7458122	-0.09437086
0.018106	0.00038	34.19546	17.42178	0.8226967	0.6276447	0.6967395	0.06909477
0.008481	0.00354	24.50993	20.71538	0.8568673	0.9069467	0.8279191	-0.07902754
0.000535	0.00018	37.5359	32.71244	0.8918753	0.9489931	0.89868	-0.05031316



0.009292	0.00026	35.76852	20.31878	0.1739407	0.4307356	0.299854	-0.1308816
0.037601	0.00573	22.4153	14.24796	0.3681013	0.678425	0.5009893	-0.1774357
0.030146	0.0355	14.49822	15.20776	0.2067364	0.3710647	0.2052045	-0.1658603
0.00013	0.00015	38.26612	38.87238	0.4439879	0.565964	0.4588708	-0.1070932
0.006298	0.02319	16.34744	22.00802	0.4319038	0.256365	0.4458719	0.1895069
0.03879	0.00599	22.22908	14.11279	0.8626888	0.6942014	0.78667	0.09246866
0.004016	0.017	17.69508	23.96238	0.6216335	0.7399234	0.5899262	-0.1499971
0.016968	0.0004	33.9292	17.7036	0.7915171	0.4811617	0.6021588	0.1209972
0.01227	0.00888	20.51394	19.11141	0.2171594	0.1466216	0.2033953	0.05677374
6.16E-05	0.00045	33.43793	42.10203	0.8450835	0.922813	0.8513123	-0.07150068
0.001521	0.00021	36.7828	28.17819	0.5121253	0.5727753	0.5149858	-0.05778952
0.028531	0.00521	22.83004	15.44683	0.4927162	0.3083434	0.2087353	-0.09960803
0.01694	1.16E-07	69.36103	17.71099	0.078392	0.5161116	0.6284902	0.1123786
0.012049	0.00088	30.56323	19.19059	0.1939337	0.4149575	0.5260572	0.1110997
0.011955	0.00393	24.05378	19.22437	0.2271984	0.1511002	0.2087718	0.05767161
0.035005	0.00072	31.40063	14.55864	0.0787444	0.4970644	0.6264082	0.1293438
0.011893	0.01294	18.87947	19.24716	0.8612059	0.7175326	0.8579903	0.1404577
0.008627	0.00369	24.32418	20.64154	0.7755882	0.708473	0.7742387	0.06576567
0.000964	0.00126	28.98045	30.1595	0.3247544	0.1795802	0.318755	0.1391748
0.03423	0.00234	26.30675	14.65594	0.8227447	0.5782174	0.4476902	-0.1305272
0.002495	0.00403	23.95178	26.02849	0.8374851	0.8992627	0.7869084	-0.1123543
0.004385	0.00693	21.59017	23.58048	0.1745821	0.1045045	0.1761275	0.071623
0.000176	0.00977	20.10287	37.54792	0.7431741	0.6793196	0.8477827	0.1684631
0.035985	0.00908	20.42153	14.43876	0.7944633	0.7048671	0.7627937	0.05792653
0.000536	1.88E-07	67.26645	32.70573	0.1561167	0.5436906	0.6578859	0.1141953
0.044786	0.00305	25.15057	13.48854	0.7881659	0.659875	0.7225888	0.06271383
0.016328	0.01276	18.94244	17.87057	0.4140211	0.3230249	0.4031987	0.08017372
0.021416	0.03406	14.678	16.69253	0.2554319	0.2028414	0.2629878	0.06014642
0.033016	0.05	13.01018	14.81276	0.7130742	0.7762976	0.7071068	-0.06919082
0.043903	2.24E-05	46.49096	13.57509	0.8171116	0.6845264	0.6085536	-0.07597275
0.000324	0.00015	38.33921	34.89656	0.7214239	0.7896059	0.6490105	-0.1405954
0.013802	0.01561	18.06708	18.60062	0.5871286	0.4869398	0.595322	0.1083822
0.025328	0.02621	15.81543	15.96398	0.8619419	0.9207873	0.8649184	-0.05586893
0.00511	0.00206	26.86893	22.91556	0.2504532	0.1898336	0.243141	0.05330748
0.026827	0.00459	23.38417	15.7142	0.8437552	0.6119537	0.7477196	0.1357659
0.037671	0.00284	25.4735	14.23992	0.179446	0.4631687	0.5904986	0.1273298
0.04145	0.03577	14.46489	13.82472	0.0952368	0.1604157	0.0998786	-0.06053716
0.033209	0.00234	26.31069	14.7875	0.1152167	0.4104213	0.5168349	0.1064137
0.029108	0.0003	35.20152	15.35981	0.7773376	0.5946323	0.6666989	0.07206664
0.014101	0.00779	21.08623	18.50752	0.4492755	0.6236905	0.7776446	0.1539541
0.003019	0.00464	23.33061	25.20121	0.5186109	0.5823929	0.5156252	-0.06676768
0.009591	0.00299	25.23726	20.18147	0.758668	0.6196679	0.7310411	0.1113733
0.006047	0.00414	23.8327	22.18468	0.8321571	0.8999522	0.8385368	-0.06141535
0.038477	0.04419	13.547	14.14799	0.1206789	0.1821335	0.1186615	-0.06347198
0.033042	0.01449	18.38866	14.8094	0.4936779	0.6081126	0.5245052	-0.08360736
0.00266	0.01149	19.39862	25.75087	0.6220362	0.4781474	0.6973029	0.2191555
0.001598	0.00081	30.93734	27.96368	0.110086	0.0572096	0.1152911	0.0580815
0.006944	0.00329	24.82998	21.5838	0.8635385	0.8035347	0.8562564	0.05272171
0.001399	0.00343	24.65285	28.54238	0.81833	0.9207519	0.7853467	-0.1354051
0.04539	0.04556	13.41426	13.43037	0.401088	0.2225066	0.3920569	0.1695503
0.019265	0.02968	15.27511	17.15236	0.728699	0.8093026	0.7220715	-0.08723114
0.031831	0.01993	17.00456	14.97145	0.8041959	0.7420027	0.7969108	0.05490811
0.035843	0.0076	21.19422	14.4559	0.9037747	0.8017174	0.8600224	0.05830503
0.028885	0.00873	20.58852	15.39324	0.7340048	0.4886149	0.6580468	0.1694318

0.012513	0.00187	27.2756	19.0265	0.5857512	0.7558083	0.6550086	-0.1007997
0.045379	0.04966	13.03952	13.43144	0.4236324	0.5451128	0.424768	-0.1203448
0.003796	0.02759	15.59205	24.20646	0.4527709	0.5297176	0.4174892	-0.1122283
0.028547	0.00087	30.61283	15.44447	0.8948334	0.6694419	0.6008011	-0.06864087
0.007508	0.02017	16.95348	21.24456	0.789529	0.678884	0.816132	0.137248
0.003798	0.00145	28.37857	24.20464	0.6431049	0.8631036	0.7086177	-0.1544859
0.033445	0.00388	24.11446	14.7567	0.8874088	0.7679327	0.8489304	0.08099776
0.025632	0.00352	24.53802	15.91222	0.9066806	0.8190613	0.8735955	0.05453413
0.010979	0.00808	20.92647	19.59448	0.685026	0.737156	0.6860334	-0.05112265
0.048558	0.02382	16.23075	13.13736	0.7132212	0.7832376	0.7263077	-0.05692988
0.000244	0.00078	31.10368	36.11967	0.5371739	0.6956523	0.5276505	-0.1680019
0.000748	0.0007	31.5316	31.26329	0.5966997	0.6821676	0.6172197	-0.06494785
0.010638	0.00124	29.04887	19.73129	0.0883082	0.1793371	0.1204601	-0.05887694
0.001216	0.00082	30.86705	29.15194	0.2335498	0.1026972	0.2133696	0.1106724
0.043366	0.03413	14.66833	13.62852	0.8947785	0.813984	0.8882086	0.07422453
1.66E-05	0.0003	35.19016	47.79667	0.6299117	0.8352609	0.6454608	-0.1898
0.02843	0.02652	15.76406	15.4623	0.5228979	0.6647666	0.5274382	-0.1373283
0.004372	0.00329	24.82587	23.59323	0.7470277	0.8452215	0.7242054	-0.121016
0.007819	0.00713	21.46892	21.06857	0.137156	0.0833543	0.1387939	0.0554396
0.02995	0.04169	13.79963	15.236	0.6219733	0.7177044	0.6119508	-0.1057537
0.032142	0.01193	19.23343	14.92927	0.709191	0.858221	0.7410315	-0.1171895
0.011338	0.00446	23.5063	19.45445	0.7859303	0.6945689	0.5961193	-0.09844955
0.047889	0.01663	17.78984	13.19763	0.9278089	0.8582219	0.9104464	0.05222451
0.002747	0.00895	20.48224	25.61196	0.4859183	0.5585234	0.4521329	-0.1063905
0.008865	0.0109	19.62601	20.52299	0.5161028	0.8418946	0.5797178	-0.2621767
0.01231	0.01278	18.93526	19.09759	0.7466218	0.8631708	0.7522698	-0.110901
0.03803	0.00423	23.73261	14.19869	0.5192029	0.2918154	0.3782261	0.08641074
0.000383	0.00087	30.59876	34.16867	0.4515398	0.6266772	0.4372998	-0.1893773
0.027128	0.02288	16.40629	15.66583	0.8432164	0.9068369	0.8439937	-0.06284317
0.024002	0.00203	26.92232	16.19744	0.6007937	0.4324374	0.3217196	-0.1107177
0.02304	0.02899	15.37766	16.37513	0.8934053	0.7883124	0.9006879	0.1123756
0.019745	0.01664	17.78798	17.04541	0.842132	0.6471317	0.4695091	-0.1776226
0.044507	0.00327	24.85455	13.5157	0.835225	0.589713	0.4858308	-0.1038822
0.006739	0.00671	21.73176	21.71437	0.8405481	0.78254	0.8393927	0.0568528
0.00815	0.00876	20.57457	20.88862	0.2847874	0.1742643	0.288347	0.1140827
0.020205	0.02881	15.40454	16.94549	0.6077448	0.6812237	0.600008	-0.08121569
0.033284	0.00039	34.08842	14.77768	0.7112402	0.9207838	0.8567841	-0.06399968
0.009195	0.00818	20.87065	20.36434	0.1101372	0.1876809	0.1113684	-0.07631247
0.016801	0.02578	15.88648	17.74675	0.5897369	0.4700413	0.5983711	0.1283298
0.012077	0.0002	37.05301	19.18027	0.8623225	0.7188085	0.7910612	0.07225269
0.020463	0.01929	17.14713	16.89038	0.6929054	0.7665445	0.700954	-0.06559058
0.021291	0.01116	19.5228	16.71798	0.7007668	0.8165943	0.7137106	-0.1028837
0.015118	0.03211	14.93388	18.20513	0.0968681	0.1635924	0.0819303	-0.08166213
0.007507	0.00944	20.25054	21.24512	0.8206812	0.7576438	0.8216856	0.06404185
0.048177	0.03803	14.19928	13.17159	0.83627	0.7357621	0.8288264	0.09306431
0.01664	0.02095	16.78818	17.78853	0.6770958	0.8249156	0.6673228	-0.1575928
0.008351	5.90E-07	62.29045	20.78267	0.4625638	0.6957265	0.6253442	-0.07038221
0.004999	0.01773	17.51293	23.01104	0.2146497	0.3131608	0.4324695	0.1193087
0.017499	0.0021	26.78194	17.56987	0.7900952	0.705224	0.7583154	0.0530914
0.027748	0.02758	15.59407	15.56765	0.6419562	0.506581	0.3962781	-0.1103029
0.007199	0.00535	22.71977	21.42738	0.5287399	0.4590861	0.5244237	0.06533752
0.000613	0.00033	34.82472	32.12348	0.5102077	0.6597974	0.5112183	-0.1485791
0.041337	0.03352	14.74745	13.83658	0.381585	0.2643857	0.3726326	0.1082468
0.005375	0.00566	22.46917	22.69621	0.8246035	0.77161	0.8262892	0.05467919

0.002713	0.00747	21.26789	25.66513	0.501573	0.6371244	0.4761056	-0.1610188
0.027585	3.97E-06	54.01731	15.59331	0.0998	0.5151875	0.5917025	0.076515
0.002027	0.00233	26.33123	26.9308	0.8986768	0.8438775	0.9002002	0.05632274
0.000245	0.0003	35.20262	36.11015	0.8391729	0.9105313	0.8358401	-0.07469121
0.019025	0.03414	14.66714	17.20679	0.3283656	0.4434988	0.3104487	-0.1330502
0.002087	0.01266	18.97404	26.80374	0.1134728	0.0440118	0.107841	0.06382921
0.003315	0.00088	30.53182	24.79452	0.867696	0.9375312	0.8864785	-0.0510526
0.044387	0.00221	26.55927	13.52742	0.7118104	0.5621241	0.6304005	0.06827638
0.022954	0.00297	25.27715	16.39149	0.8434082	0.695499	0.7785653	0.08306636
0.023123	0.01246	19.04545	16.35958	0.4489177	0.3252477	0.2249866	-0.1002612
0.000605	0.00354	24.50673	32.18211	0.8207349	0.9304868	0.796125	-0.1343618
0.003524	0.01452	18.37988	24.52933	0.7457066	0.8363366	0.7115855	-0.1247511
0.008625	0.00586	22.3198	20.64249	0.6211318	0.7921483	0.6336148	-0.1585335
0.000861	5.71E-05	42.43493	30.65046	0.7646504	0.6098217	0.6876787	0.07785702
0.002034	0.00023	36.31803	26.91715	0.1762309	0.0987195	0.1526958	0.05397626
0.023821	2.83E-05	45.4758	16.23046	0.7855541	0.5584387	0.4991584	-0.05928024
0.003228	0.01242	19.05898	24.91033	0.7818033	0.8625892	0.7555833	-0.1070059
0.015791	0.04501	13.46683	18.01579	0.7979636	0.7471603	0.8182251	0.07106492
0.004516	0.03282	14.83842	23.45223	0.0984194	0.1800919	0.3298038	0.1497119
0.000496	0.00104	29.82813	33.04614	0.7492344	0.8767031	0.7566297	-0.1200733
0.000118	8.16E-06	50.88345	39.28656	0.1623449	0.0922423	0.1434354	0.05119317
7.65E-06	0.00014	38.59858	51.16324	0.6833777	0.756069	0.6433885	-0.1126805
0.003622	0.00182	27.40664	24.41066	0.6448433	0.8471549	0.703408	-0.1437469
0.003255	0.00105	29.78805	24.87449	0.644884	0.7429668	0.6491593	-0.09380753
0.00525	0.01165	19.33671	22.79856	0.8559983	0.7818942	0.8766347	0.09474051
0.002212	0.00759	21.19732	26.55209	0.4732112	0.5499708	0.4642039	-0.08576688
0.006292	0.0027	25.69274	22.01205	0.8806996	0.7406612	0.8558528	0.1151916
0.000631	0.00049	33.05718	32.00119	0.5902365	0.6979467	0.5935035	-0.1044432
0.000923	0.01511	18.20771	30.34997	0.6934766	0.634466	0.5367212	-0.09774482
0.000129	0.00033	34.86854	38.90771	0.563737	0.7147037	0.5487288	-0.1659749
0.00914	0.00166	27.80899	20.39034	0.6881173	0.6380392	0.5851176	-0.0529216
0.042609	5.41E-08	72.67052	13.70498	0.0999609	0.6175656	0.6717724	0.05420676
0.038993	0.00058	32.3527	14.09009	0.1245558	0.4481321	0.3150351	-0.133097
0.018984	0.03818	14.18198	17.21616	0.2124475	0.0896993	0.2259883	0.136289
0.002333	3.74E-05	44.27621	26.32165	0.7593301	0.8226922	0.757847	-0.06484524
0.047124	0.00145	28.39315	13.26758	0.3283347	0.5015474	0.4260331	-0.07551432
0.036968	0.0063	22.00818	14.32176	0.6153212	0.7108869	0.6115333	-0.09935364
0.034598	0.00837	20.77439	14.60953	0.2123115	0.3004608	0.3738158	0.07335502
0.038804	0.02724	15.6481	14.11126	0.7470474	0.8467984	0.7608344	-0.08596395
0.009115	1.05E-05	49.80293	20.40257	0.1646015	0.60595	0.4653994	-0.1405505
0.000259	0.00024	36.23356	35.86942	0.7908042	0.7199351	0.7719448	0.05200965
0.00353	0.0199	17.01148	24.52203	0.7923549	0.8469927	0.7576964	-0.0892963
0.027615	0.02274	16.43217	15.58848	0.6113167	0.7628638	0.6242186	-0.1386452
0.040014	0.01693	17.71316	13.9779	0.802911	0.6933696	0.7823694	0.0889998
0.001032	0.00019	37.21233	29.86343	0.8448641	0.565025	0.7527329	0.187708
0.029961	0.03787	14.21658	15.23443	0.8273798	0.9028242	0.8224054	-0.08041887
0.038361	0.00108	29.64974	14.16105	0.6356807	0.4829004	0.5579606	0.07506023
0.03764	0.00253	25.96295	14.24345	0.8594745	0.7112998	0.7754923	0.06419241
0.010191	0.00299	25.24059	19.91789	0.8435797	0.7019776	0.794796	0.09281843
0.003981	0.00893	20.49256	24.00039	0.6657267	0.7308331	0.6500669	-0.08076629
0.025999	0.0135	18.6982	15.85048	0.7317123	0.8088089	0.7486255	-0.06018341
0.000534	0.00175	27.57788	32.72219	0.4365979	0.6389665	0.4432651	-0.1957015
0.017216	2.18E-05	46.62058	17.64057	0.7805767	0.5825822	0.6534675	0.07088538
0.024788	0.00544	22.64242	16.05761	0.043197	0.1529203	0.2246082	0.07168787

0.000453	5.52E-05	42.58123	33.44107	0.2406302	0.1388257	0.2113536	0.07252786
0.033747	0.00139	28.56454	14.71759	0.7224888	0.3370209	0.5169512	0.1799303
0.018879	0.0105	19.78938	17.24028	0.8282662	0.8792272	0.8272176	-0.05200957
0.045126	0.00656	21.83056	13.45574	0.7822517	0.6450428	0.7302532	0.0852103
0.038173	0.03064	15.13693	14.1824	0.7308829	0.4706035	0.7076581	0.2370546
0.000678	0.0002	36.94986	31.69017	0.8072841	0.9020045	0.8203739	-0.08163065
0.046704	0.02326	16.33454	13.30642	0.8621221	0.7537299	0.6720206	-0.08170928
0.00838	0.01075	19.68737	20.7677	0.784108	0.8486843	0.7805052	-0.06817906
0.010512	0.01377	18.61059	19.7832	0.1483261	0.08933	0.1511365	0.0618065
0.001947	0.00019	37.1414	27.10652	0.870495	0.9364924	0.8763192	-0.0601733
0.018627	0.03561	14.484	17.29848	0.0932361	0.1447894	0.2673095	0.1225201
0.00701	0.00164	27.84584	21.54288	0.6465941	0.4470341	0.6053513	0.1583172
0.045357	0.03749	14.26059	13.43358	0.0918673	0.1463708	0.0954274	-0.05094343
0.006454	0.03296	14.8202	21.90174	0.0903278	0.1975581	0.3484585	0.1509003
0.01068	0.0021	26.77805	19.71442	0.8460435	0.7939206	0.7247459	-0.06917474
0.028726	0.00388	24.11631	15.41732	0.1323532	0.3092031	0.4183685	0.1091653
0.020875	0.04841	13.15075	16.8037	0.7918555	0.8863099	0.7707692	-0.1155407
0.030579	0.01035	19.8525	15.14583	0.0562014	0.127187	0.2242988	0.09711184
0.006566	0.00176	27.55563	21.82716	0.8525782	0.6003402	0.7650051	0.1646648
1.28E-06	1.09E-07	69.6319	58.93144	0.1190897	0.0352122	0.1013184	0.06610621
0.038328	0.03468	14.5996	14.16481	0.4584529	0.6514375	0.46922	-0.1822175
0.006466	0.00443	23.53157	21.89355	0.7694631	0.8289687	0.7539285	-0.07504018
0.036031	8.57E-05	40.67123	14.43327	0.1915233	0.6360126	0.4983786	-0.137634
0.044369	0.01289	18.8969	13.52921	0.8109053	0.6499024	0.5461634	-0.103739
0.015494	0.0011	29.57412	18.09839	0.0596929	0.5535731	0.7263346	0.1727614
0.013267	0.00605	22.18097	18.77242	0.7720961	0.8430393	0.7828489	-0.06019043
0.005344	0.00283	25.47854	22.72149	0.1273776	0.0537776	0.1082354	0.05445781
0.028248	0.00496	23.04606	15.49017	0.6750203	0.7256371	0.6598714	-0.06576573
0.018062	0.00495	23.05791	17.43235	0.7342162	0.818251	0.7619923	-0.05625862
0.017831	0.01967	17.06126	17.48832	0.8279797	0.7648603	0.8336319	0.06877156
0.000948	0.0017	27.70259	30.23261	0.5036511	0.5911826	0.4975294	-0.09365322
2.56E-05	0.00034	34.71645	45.91136	0.6694385	0.7767134	0.6576787	-0.1190347
0.012185	0.01419	18.47925	19.14164	0.682772	0.7462081	0.6805364	-0.06567167
0.014376	0.01267	18.97224	18.4237	0.6298692	0.8027501	0.637972	-0.1647781
0.037753	4.74E-07	63.24138	14.23049	0.1114379	0.6618093	0.7397657	0.07795643
0.032332	0.00749	21.2549	14.90372	0.2472339	0.1457583	0.2157653	0.07000697
0.02215	0.02981	15.25607	16.54629	0.7755013	0.693442	0.7804766	0.08703463
0.034938	3.06E-05	45.14088	14.56698	0.2824763	0.5191106	0.5825461	0.06343548
0.020862	0.00141	28.50739	16.80641	0.2001172	0.576951	0.7405283	0.1635774
0.011219	0.00596	22.24547	19.50048	0.8890002	0.7487591	0.6405234	-0.1082357
0.005267	0.01098	19.59438	22.78464	0.1033192	0.0530355	0.1058373	0.05280177
0.021991	0.01728	17.6239	16.57751	0.8185186	0.9051351	0.8257511	-0.07938396
0.034864	0.00996	20.0183	14.57627	0.2191438	0.1252271	0.1908419	0.0656148
0.018424	0.01199	19.21031	17.34615	0.6750736	0.7942937	0.7039879	-0.09030581
0.010436	0.00043	33.66857	19.81483	0.8522775	0.7443871	0.8040009	0.05961371
0.015559	0.0276	15.59072	18.08027	0.7364872	0.8206936	0.7212387	-0.09945479
0.024885	0.01795	17.45837	16.04067	0.8769637	0.7355549	0.8591304	0.1235754
0.037469	0.0001	39.80066	14.26325	0.6833529	0.5857122	0.6396349	0.05392274
0.025147	0.01468	18.33377	15.99509	0.308727	0.1766404	0.2843853	0.107745
0.004635	0.0209	16.79881	23.33942	0.6339571	0.6868808	0.6061602	-0.0807206
0.036326	0.0495	13.05425	14.39783	0.8612987	0.788364	0.7067239	-0.08164012
0.027479	0.01327	18.76979	15.60999	0.8880004	0.7780545	0.8619691	0.08391453
0.008787	0.00458	23.39462	20.5618	0.1435093	0.0347453	0.117792	0.08304675
0.000746	0.01812	17.41957	31.27337	0.4912507	0.5440329	0.4322071	-0.1118258

0.001268	7.13E-05	41.47198	28.96738	0.8122504	0.6481593	0.5592201	-0.08893915
0.018402	0.00744	21.28432	17.35146	0.8631552	0.8109468	0.6984926	-0.1124542
0.004088	0.00669	21.74811	23.8852	0.5259792	0.5970235	0.5106514	-0.08637217
4.72E-05	1.65E-05	47.82935	43.25702	0.7831656	0.8947942	0.7946627	-0.1001315
0.018563	3.94E-07	64.04242	17.31363	0.6800765	0.415681	0.3367762	-0.07890476
0.01507	0.0046	23.37221	18.21894	0.1804055	0.4210943	0.2599707	-0.1611236
0.017521	0.02212	16.55284	17.56444	0.1403033	0.0422966	0.1171317	0.07483513
0.022775	0.01656	17.80927	16.42546	0.7244604	0.8099152	0.730713	-0.07920223
0.004958	0.00523	22.81456	23.0471	0.6786822	0.7450725	0.8067269	0.06165446
0.02354	0.01044	19.81267	16.28194	0.7982634	0.6153351	0.4809709	-0.1343642
0.015828	0.03768	14.23874	18.00581	0.5683042	0.48695	0.5892902	0.1023402
0.035458	0.03225	14.91511	14.5029	0.8523517	0.6700096	0.842696	0.1726863
0.046487	0.01564	18.05682	13.3267	0.1707661	0.2801229	0.1987604	-0.08136251
0.009967	0.01149	19.39567	20.01451	0.4648908	0.5450964	0.4631622	-0.08193421
0.04336	0.04401	13.56495	13.62915	0.5159519	0.5951008	0.5174087	-0.07769211
0.047052	0.0029	25.37601	13.27421	0.9021255	0.7763687	0.7118644	-0.0645044
0.002616	0.00453	23.44315	25.824	0.6958265	0.7809689	0.700623	-0.08034593
0.00291	0.00021	36.83881	25.36055	0.1540672	0.0695239	0.1363295	0.06680556
0.036108	0.00507	22.95168	14.42402	0.1655414	0.2506922	0.3472618	0.09656967
0.046949	0.00083	30.8271	13.28375	0.9087459	0.6233523	0.5367663	-0.08658604
0.008939	0.00847	20.72112	20.48697	0.7736712	0.712833	0.7749447	0.06211156
0.018593	0.01905	17.20004	17.30659	0.8259767	0.6764804	0.5374718	-0.1390086
0.043403	0.03084	15.10908	13.62484	0.8489701	0.5888591	0.8124914	0.2236323
0.031391	0.03699	14.31916	15.03194	0.2471426	0.1462921	0.253946	0.1076539
0.005586	0.00303	25.18196	22.52861	0.8156076	0.7527881	0.8103984	0.05761027
0.035026	0.01372	18.62732	14.55608	0.1768152	0.2402682	0.3053294	0.06506123
0.049997	0.00649	21.87708	13.01058	0.8788076	0.6634498	0.7715334	0.1080836
0.00676	0.00177	27.5213	21.70061	0.7923859	0.6487367	0.7457571	0.09702041
0.009875	0.02282	16.41743	20.05457	0.8432758	0.7599214	0.6567967	-0.1031248
0.038507	0.02213	16.54988	14.14463	0.0783672	0.1467817	0.0933516	-0.0534301
0.024662	0.02782	15.55648	16.07978	0.6075454	0.7076367	0.6104182	-0.09721848
0.000807	3.62E-05	44.41042	30.93232	0.4987616	0.6054714	0.4905169	-0.1149545
0.03867	0.00024	36.19347	14.12626	0.7072355	0.4300012	0.3401424	-0.08985881
0.046309	0.0327	14.8546	13.34337	0.5105243	0.5917735	0.5209522	-0.07082131
0.001389	0.01162	19.3487	28.57271	0.0745804	0.2158876	0.4173867	0.2014991
0.006888	0.02039	16.9055	21.61884	0.4952826	0.6438502	0.4485599	-0.1952903
0.000174	1.14E-05	49.44254	37.59682	0.6282387	0.7428097	0.6566673	-0.08614241
0.03454	0.00918	20.37309	14.61674	0.9357946	0.8281268	0.8970737	0.06894699
1.62E-05	0.00115	29.39257	47.9157	0.1509252	0.0696191	0.1447438	0.07512467
0.029943	0.00516	22.8775	15.23705	0.8729024	0.7685895	0.6485966	-0.1199929
0.007176	0.01366	18.64413	21.44093	0.5680975	0.674037	0.5635982	-0.1104388
0.007109	0.00254	25.95129	21.48177	0.8679041	0.7922874	0.8536513	0.06136393
0.004859	0.01347	18.70747	23.13474	0.1278722	0.1884271	0.2649926	0.07656549
6.30E-06	8.41E-06	50.75425	52.00946	0.6404368	0.7858226	0.6488395	-0.1369831
0.039015	6.62E-05	41.78833	14.08773	0.1239173	0.3619654	0.4298031	0.06783765
0.016177	7.30E-05	41.36777	17.91106	0.1456058	0.3461243	0.4268005	0.0806762
0.003208	0.03263	14.86423	24.93701	0.769332	0.6938675	0.5670022	-0.1268653
0.047945	0.03963	14.01925	13.19255	0.6370135	0.7661468	0.6448885	-0.1212583
0.017075	0.00371	24.30911	17.67629	0.8342014	0.719025	0.7951396	0.07611454
0.027036	0.00011	39.53527	15.68055	0.53968	0.7371943	0.7997462	0.06255185
0.036923	0.02711	15.6683	14.32698	0.7759664	0.6437505	0.7588261	0.1150757
0.003698	0.00877	20.57062	24.3198	0.6630709	0.7730989	0.6349736	-0.1381253
0.037206	0.04906	13.09243	14.29383	0.7500899	0.6688063	0.5681073	-0.100699
0.000524	0.00064	31.93226	32.80532	0.7471963	0.8906705	0.7574605	-0.1332101

0.03753	0.00014	38.5349	14.25627	0.3720783	0.552221	0.4891443	-0.06307673
0.032528	0.00071	31.50999	14.87745	0.8402404	0.6962671	0.7602232	0.06395616
0.029213	0.0202	16.94697	15.34429	0.7820086	0.8360382	0.7844607	-0.0515775
0.040334	0.0093	20.31413	13.94334	0.2531539	0.3552763	0.4156893	0.0604129
0.042737	0.01066	19.7223	13.69195	0.9467368	0.8080106	0.691168	-0.1168426
0.02642	0.00073	31.37055	15.78066	0.6595228	0.3760575	0.2489275	-0.12713
0.009432	0.00796	20.99	20.25402	0.6999102	0.8363975	0.7088946	-0.1275029
0.022205	0.01465	18.34216	16.53555	0.6046575	0.7655431	0.6269528	-0.1385903
0.021324	0.02619	15.81833	16.71125	0.9193583	0.8305533	0.7312315	-0.09932185
0.040479	0.00075	31.23792	13.9277	0.107735	0.2794073	0.2022484	-0.07715887
0.033998	0.03429	14.64788	14.6854	0.015071	0.0793409	0.0159819	-0.06335902
0.020779	0.00922	20.35185	16.82379	0.8998053	0.7475582	0.6231728	-0.1243854
0.008268	0.00279	25.54757	20.82586	0.9006137	0.7638254	0.858175	0.09434965
0.013764	0.00042	33.79994	18.61271	0.1633788	0.0938156	0.1487799	0.05496434
0.031032	0.03194	14.95671	15.08186	0.5016089	0.4209986	0.5028938	0.08189524
0.01844	0.0114	19.43026	17.34234	0.5708714	0.7184838	0.5680071	-0.1504767
0.000614	3.09E-05	45.09652	32.11985	0.9025676	0.9563658	0.9059279	-0.05043789
0.045277	0.02904	15.36986	13.44121	0.2245004	0.1336586	0.207882	0.07422347
0.000192	2.43E-05	46.14445	37.15653	0.1987457	0.0823629	0.1720022	0.08963935
0.006341	0.00503	22.98034	21.97819	0.8758612	0.8048	0.8677701	0.06297007
0.029632	0.02488	16.04177	15.28236	0.7605862	0.6937577	0.7547501	0.0609924
0.000176	0.00188	27.25224	37.54474	0.6718878	0.7885939	0.6563688	-0.1322251
0.000412	0.00062	32.05529	33.84981	0.8520295	0.9270829	0.8486112	-0.07847173
0.038535	0.00822	20.85266	14.14143	0.8562762	0.6634685	0.5554056	-0.1080629
0.004104	0.0191	17.1889	23.86767	0.661293	0.7302063	0.628017	-0.1021893
0.024549	0.02349	16.29107	16.09971	0.8020552	0.6713897	0.8025978	0.1312081
0.017267	0.0053	22.75848	17.62774	0.2283607	0.1621003	0.2232305	0.0611302
0.000599	8.20E-05	40.86115	32.22844	0.1309257	0.0536392	0.1128892	0.05924995
0.001657	0.00217	26.63614	27.8062	0.6056715	0.7114093	0.6167523	-0.09465698
0.000284	0.00025	36.07828	35.47081	0.6574528	0.7594132	0.6144688	-0.1449443
0.029095	0.00197	27.04631	15.36185	0.2554609	0.1734824	0.2762655	0.1027831
0.038779	0.0111	19.54706	14.11404	0.6281053	0.7349604	0.6621309	-0.07282958
0.001215	1.36E-07	68.66434	29.15332	0.4007389	0.2992697	0.367178	0.06790822
0.005372	0.00812	20.90525	22.69903	0.5653013	0.7106884	0.557968	-0.1527203
0.018306	0.00808	20.92586	17.37397	0.1553027	0.3609876	0.5139731	0.1529855
0.02009	0.0266	15.75079	16.97027	0.057558	0.2008956	0.3905079	0.1896122
0.010232	0.00607	22.17016	19.90061	0.8842926	0.7516599	0.6460832	-0.1055766
0.026058	0.02945	15.3088	15.84052	0.7534532	0.84611	0.7562869	-0.0898232
0.049715	0.00641	21.92864	13.03514	0.8540379	0.6348801	0.7414911	0.106611
0.002165	0.00033	34.80025	26.64552	0.8200867	0.6651517	0.7813762	0.1162245
0.011533	0.0071	21.48569	19.38057	0.8782447	0.9408298	0.8822257	-0.05860412
0.03344	0.0175	17.56978	14.75729	0.3043362	0.1918515	0.2859521	0.09410058
0.046988	0.03652	14.37422	13.28016	0.1142906	0.2407309	0.3591188	0.1183879
0.034004	0.02033	16.91965	14.68471	0.7549482	0.8739702	0.7790494	-0.09492081
0.042761	0.02348	16.2937	13.6895	0.7781546	0.6659525	0.7577803	0.09182771
0.001885	0.01243	19.05532	27.24755	0.598505	0.7333165	0.5349182	-0.1983983
0.006212	0.00046	33.3853	22.06743	0.4615523	0.5188752	0.4620163	-0.05685895
0.001186	0.00213	26.71142	29.2604	0.2506563	0.108554	0.2520354	0.1434814
0.026548	0.00954	20.20634	15.75973	0.2097133	0.119711	0.1869893	0.06727826
0.015507	0.00419	23.78157	18.0946	0.289276	0.503692	0.5841877	0.08049573
0.007842	0.00951	20.2171	21.05555	0.6722369	0.7343856	0.6653904	-0.0689952
0.017518	0.02329	16.32797	17.5651	0.2241735	0.1524469	0.2360122	0.08356529
0.026603	0.00086	30.6554	15.75062	0.8402557	0.7335249	0.6441474	-0.08937748
2.74E-05	5.46E-07	62.63158	45.62645	0.2038708	0.0867596	0.1745622	0.08780261

0.028477	0.00829	20.81297	15.4551	0.7463607	0.6643053	0.6061413	-0.05816399
0.000122	1.55E-05	48.09345	39.13047	0.2737886	0.1835178	0.254859	0.07134121
0.038528	0.043	13.66567	14.14226	0.1113054	0.1665795	0.1115299	-0.05504964
8.51E-05	1.30E-05	48.87344	40.6992	0.2815287	0.15652	0.2632613	0.1067413
0.023753	0.00067	31.70755	16.24277	0.1150378	0.4285881	0.5505861	0.121998
0.021676	9.60E-05	40.17933	16.64012	0.8233236	0.491705	0.5992936	0.1075886
0.02401	0.03762	14.24588	16.19606	0.7446188	0.6753456	0.56459	-0.1107557
6.39E-05	0.00018	37.38997	41.94675	0.8479982	0.7136675	0.8089382	0.09527066
0.046313	0.00958	20.18498	13.34296	0.8897026	0.760876	0.8401402	0.07926423
0.02453	0.00817	20.8784	16.10297	0.872576	0.7941086	0.851147	0.05703842
0.005969	0.00213	26.72237	22.24095	0.6250172	0.6893013	0.6354415	-0.0538598
0.002592	4.41E-05	43.55947	25.86409	0.6992025	0.8974028	0.8281826	-0.06922026
0.042128	0.02792	15.54059	13.7543	0.3544532	0.2231271	0.339428	0.1163009
0.027268	0.00217	26.63814	15.64347	0.452316	0.3515307	0.4246936	0.07316293
0.000993	1.52E-08	78.17962	30.02999	0.7651383	0.900149	0.8003318	-0.09981733
0.034579	0.02577	15.88953	14.61182	0.8758493	0.7815051	0.8705447	0.08903962
0.012542	0.01727	17.62677	19.01627	0.8243074	0.9074007	0.8248337	-0.08256693
0.005419	0.00685	21.64487	22.66101	0.8548253	0.7872176	0.8573834	0.07016588
0.00077	0.00146	28.34616	31.13513	0.6395252	0.7944992	0.6257005	-0.1687987
1.19E-05	2.22E-05	46.54305	49.2436	0.5617309	0.6714032	0.5527875	-0.1186158
0.025399	0.03595	14.44291	15.95182	0.514823	0.6365231	0.503808	-0.1327151
0.011303	0.00902	20.44618	19.46788	0.2202996	0.160841	0.2157748	0.05493373
0.02389	0.01091	19.62026	16.21775	0.8619912	0.7472066	0.8444041	0.09719755
0.028032	0.00556	22.54742	15.52349	0.2984095	0.190371	0.2737209	0.08334996
0.018364	0.00026	35.93309	17.36039	0.0849776	0.1600982	0.2664286	0.1063305
0.043928	0.03185	14.96869	13.57254	0.7936748	0.7164635	0.7855603	0.06909679
0.003731	0.0023	26.37882	24.2819	0.8002394	0.6453343	0.7792736	0.1339393
0.004787	0.005	23.00754	23.19904	0.3993281	0.4910192	0.4027427	-0.08827657
0.006718	0.0076	21.19118	21.72734	0.2578555	0.1319743	0.2566773	0.124703
0.007546	0.00734	21.34024	21.22272	0.8953325	0.8104071	0.8943926	0.0839855
0.004134	0.00036	34.38011	23.83666	0.1138428	0.2050626	0.2613448	0.05628212
0.014498	0.00015	38.28756	18.38702	0.8152315	0.6294079	0.7071348	0.0777269
0.000219	7.08E-05	41.50237	36.60198	0.1606289	0.073345	0.1328418	0.05949681
0.015177	0.0155	18.0974	18.18815	0.8706492	0.7960444	0.8688216	0.07277722
0.000235	0.00023	36.30121	36.28661	0.8393143	0.8895206	0.8226981	-0.06682257
0.049908	0.04764	13.22038	13.01834	0.4941314	0.6337969	0.4913255	-0.1424714
0.001598	0.01635	17.86407	27.96401	0.3755344	0.2438823	0.1707336	-0.0731487
0.048227	0.00709	21.4947	13.1671	0.1496914	0.2274352	0.3230819	0.09564666
0.015343	0.00899	20.46229	18.14078	0.1405001	0.0790878	0.1296343	0.05054656
0.005485	0.0074	21.30576	22.60812	0.5290796	0.5960703	0.5295526	-0.06651779
5.19E-06	1.08E-05	49.66124	52.84615	0.5788945	0.8079309	0.6059215	-0.2020095
0.032288	0.00662	21.79456	14.90964	0.8590741	0.7013461	0.8038149	0.1024688
0.022625	0.00058	32.39037	16.45417	0.1333447	0.3109889	0.392227	0.08123811
0.027717	0.00285	25.44547	15.5726	0.1073543	0.3522305	0.2096779	-0.1425525
0.027926	0.00032	34.99716	15.53996	0.8496892	0.7659345	0.692519	-0.07341552
0.007144	0.01525	18.16835	21.46072	0.5912517	0.6649694	0.5810845	-0.08388487
0.011363	0.00759	21.1999	19.44517	0.8078957	0.7475985	0.8063889	0.05879037
0.015897	0.01642	17.84742	17.98698	0.3826235	0.5059285	0.3688645	-0.1370639
0.00144	0.00206	26.85495	28.41537	0.8509051	0.9175823	0.8415563	-0.07602601
0.000588	0.00062	32.04176	32.30372	0.9522527	0.7429047	0.6177008	-0.1252039
0.030815	0.03876	14.1163	15.11236	0.5238858	0.6754717	0.5139039	-0.1615679
0.005329	0.03882	14.10901	22.73339	0.8420101	0.7829341	0.637047	-0.1458871
0.038784	0.00664	21.77915	14.11347	0.5702928	0.8014414	0.6555245	-0.145917
0.008078	0.00357	24.47705	20.92718	0.5868978	0.6869738	0.5782048	-0.108769

0.021481	0.03489	14.57319	16.6794	0.6941692	0.7584277	0.6873615	-0.0710662
0.002113	2.85E-05	45.4496	26.75126	0.1657542	0.2905614	0.3873398	0.09677841
0.038486	0.00013	38.90347	14.14701	0.489777	0.699357	0.6303245	-0.06903253
0.050092	0.04638	13.33664	13.00233	0.6538778	0.8040507	0.6643242	-0.1397265
0.002539	0.00192	27.16508	25.95274	0.8515302	0.7533683	0.8299049	0.07653663
0.001186	0.00012	39.35492	29.25928	0.6862662	0.7705349	0.7127291	-0.05780577
0.024548	0.03064	15.13757	16.0999	0.0831771	0.1514249	0.0813159	-0.07010903
0.008855	0.01603	17.95057	20.52804	0.6445078	0.7447845	0.6343821	-0.1104024
0.044558	0.01291	18.89082	13.51072	0.1035265	0.0270896	0.0798803	0.05279069
0.012147	4.57E-05	43.39848	19.15515	0.1368073	0.4045478	0.5820626	0.1775149
0.047803	0.00028	35.49207	13.20544	0.8469317	0.6385515	0.5419365	-0.09661497
2.32E-05	2.46E-07	66.08859	46.34789	0.809073	0.9551488	0.8125073	-0.1426415
0.016581	0.03424	14.65528	17.8038	0.7752561	0.8320641	0.7598655	-0.07219865
0.042299	0.01748	17.57568	13.73668	0.9074632	0.813233	0.7424867	-0.07074632
0.016134	0.00032	34.99997	17.92265	0.7878628	0.5901148	0.4862441	-0.1038708
0.006879	0.00286	25.43566	21.62504	0.8086764	0.89289	0.8241678	-0.06872208
0.006243	1.27E-05	48.97137	22.04621	0.0964633	0.2516961	0.3577863	0.1060903
0.015224	0.00165	27.8198	18.17474	0.8158932	0.6213449	0.7444897	0.1231448
0.038614	0.02815	15.50488	14.13256	0.7764163	0.5787389	0.7583082	0.1795693
0.001901	0.00267	25.73127	27.21074	0.8052208	0.8768672	0.8002827	-0.07658448
0.004362	0.00724	21.40418	23.60311	0.7259031	0.6663952	0.5978034	-0.06859192
0.006082	0.00382	24.17767	22.15964	0.4026649	0.2631254	0.3754609	0.1123355
0.026606	0.00266	25.75353	15.75029	0.8774698	0.6517735	0.7865562	0.1347827
0.005412	0.00545	22.63705	22.6666	0.4210391	0.2119147	0.4012392	0.1893245
0.025757	0.00938	20.27782	15.89104	0.0444013	0.263025	0.4042948	0.1412698
0.000478	0.00021	36.86333	33.20658	0.6545452	0.7863634	0.6712477	-0.1151157
0.025438	0.00018	37.49873	15.94513	0.7444862	0.5668585	0.6303068	0.06344829
0.038655	0.02147	16.68085	14.12792	0.0882539	0.2569005	0.3808281	0.1239276
0.02299	0.01906	17.19949	16.38466	0.2270362	0.1210983	0.2129208	0.09182245
0.010487	0.00686	21.63566	19.79365	0.1008741	0.0441937	0.0988356	0.05464188
0.030834	0.01942	17.11652	15.10963	0.4511119	0.5418619	0.4646454	-0.07721646
0.000175	1.00E-05	49.97902	37.57443	0.771456	0.8921847	0.7759807	-0.116204
0.003192	0.01641	17.84963	24.95983	0.6915682	0.756001	0.6741878	-0.08181322
0.013597	0.00841	20.7536	18.66548	0.1704478	0.2499531	0.1791563	-0.07079676
0.037322	0.02621	15.81466	14.28035	0.3997788	0.2851634	0.3815314	0.09636805
0.028558	0.03767	14.24014	15.44268	0.7218571	0.7811582	0.7206761	-0.06048217
0.022593	0.03787	14.2169	16.46021	0.5826126	0.6359927	0.575148	-0.06084467
0.001201	0.00035	34.50145	29.20436	0.8294762	0.9202806	0.8353182	-0.08496238
0.001875	0.00262	25.81	27.26909	0.1616592	0.0919676	0.1667136	0.07474604
0.044249	0.00425	23.71601	13.54098	0.8030633	0.4671492	0.3144633	-0.1526858
0.001263	0.00339	24.69405	28.98766	0.3618343	0.4159542	0.3151102	-0.100844
0.023287	8.33E-06	50.79102	16.3288	0.5448827	0.3495012	0.3998007	0.05029944
0.01201	0.00888	20.5159	19.20457	0.5746757	0.636016	0.5814135	-0.05460247
0.002214	0.01228	19.10786	26.54909	0.6579002	0.7753713	0.6272668	-0.1481045
0.016024	0.02043	16.89833	17.95243	0.4332877	0.5478951	0.4369971	-0.110898
0.011825	0.00687	21.63281	19.27196	0.8350282	0.6882461	0.8016989	0.1134528
0.01825	0.02218	16.5399	17.3874	0.9239485	0.8076029	0.6916925	-0.1159103
0.000859	0.00673	21.71986	30.66106	0.6153032	0.6949245	0.6023184	-0.0926061
0.027288	0.0245	16.1085	15.64028	0.8687371	0.7777976	0.8669556	0.08915799
0.023383	0.01695	17.70918	16.31092	0.7204577	0.7835381	0.7317821	-0.05175605
0.037785	0.01816	17.40782	14.22676	0.7602335	0.6933556	0.7491655	0.05580997
0.000388	0.00082	30.88125	34.11406	0.8206947	0.9281028	0.8062293	-0.1218735
0.004008	0.0103	19.87147	23.97125	0.6650328	0.7515615	0.6544552	-0.09710633
0.002096	0.0031	25.09021	26.78706	0.0953087	0.1743355	0.0837439	-0.09059165



0.026609	0.00114	29.43585	15.74967	0.813359	0.6084268	0.5265485	-0.08187829
0.0034	0.00067	31.71631	24.6852	0.1414895	0.0692907	0.1332996	0.0640089
0.014735	0.0012	29.22026	18.31643	0.8408911	0.6679826	0.7682337	0.1002511
0.025754	0.00192	27.16835	15.89162	0.8501312	0.7545924	0.698495	-0.05609741
0.000629	0.00213	26.71454	32.01179	0.8765975	0.8145733	0.8695136	0.05494022
0.017447	0.01167	19.33026	17.5827	0.1611908	0.08549	0.1521143	0.06662429
0.006157	0.00322	24.91791	22.10623	0.1528502	0.078379	0.1417068	0.06332781
6.58E-05	5.58E-05	42.53566	41.8158	0.0957836	0.0284169	0.0927135	0.06429662
0.0156	0.00261	25.82963	18.06877	0.1037731	0.0490668	0.1036749	0.05460806
0.008991	0.00661	21.79843	20.46187	0.6944342	0.8040362	0.695554	-0.1084823
0.030633	0.03283	14.83693	15.13814	0.7869856	0.6750344	0.5674692	-0.1075652
0.001319	0.00143	28.43948	28.79679	0.0780376	0.2586376	0.4165745	0.1579369
0.015621	0.00254	25.95774	18.0629	0.8617541	0.7434703	0.6432182	-0.100252
0.012211	0.00564	22.48989	19.13266	0.7276544	0.8266661	0.7390814	-0.08758474
0.021834	0.01878	17.26274	16.60859	0.7741451	0.8586356	0.7836412	-0.07499441
0.0458	0.00241	26.17352	13.39135	0.8044147	0.9261944	0.8356171	-0.09057731
0.001196	0.00016	37.98899	29.22127	0.795063	0.6751634	0.7597229	0.0845595
0.006694	0.00295	25.30728	21.74329	0.8052569	0.9077306	0.8212901	-0.08644051
0.002812	0.00272	25.65573	25.51011	0.1821921	0.0927417	0.172274	0.07953228
0.02628	0.02635	15.7927	15.80381	0.8470777	0.6978252	0.8510523	0.1532271
0.000107	5.26E-06	52.7894	39.71387	0.5961472	0.6788006	0.5908548	-0.08794575
0.000444	0.0092	20.3627	33.52831	0.6151721	0.6753162	0.5691697	-0.1061465
0.016633	0.00264	25.78011	17.79035	0.763391	0.8441308	0.7936715	-0.05045924
0.041166	0.01245	19.04725	13.8546	0.1039996	0.2175707	0.3180602	0.1004895
0.037304	0.00923	20.35005	14.28242	0.8038683	0.6819699	0.7649005	0.08293064
0.004201	0.00437	23.59751	23.76636	0.324444	0.1865397	0.3330788	0.1465391
0.002522	0.003	25.22526	25.98208	0.6280516	0.7123889	0.5684565	-0.1439324
0.00235	1.83E-07	67.38099	26.29016	0.7656738	0.8387457	0.7790468	-0.05969889
0.034813	0.01978	17.03822	14.58259	0.070025	0.1660561	0.0828365	-0.08321958
0.000893	0.00137	28.62434	30.49117	0.7656075	0.8743858	0.7685564	-0.1058294
0.000117	0.00052	32.8499	39.32032	0.8910816	0.8170193	0.7223397	-0.09467959
0.042755	0.01382	18.59503	13.69015	0.5724998	0.7103634	0.6166908	-0.09367268
0.027815	0.0177	17.52065	15.55722	0.6594372	0.7988421	0.6736498	-0.1251923
0.010445	0.00067	31.73523	19.81079	0.9210603	0.7703807	0.6799501	-0.09043058
0.018324	0.00127	28.94625	17.36979	0.6133935	0.523408	0.444454	-0.07895398
0.033842	0.00022	36.64503	14.70548	0.8288581	0.5954804	0.5043162	-0.09116416
0.016014	0.01878	17.26407	17.95499	0.6505749	0.8057973	0.6371651	-0.1686322
0.000674	2.21E-05	46.54697	31.71179	0.7967874	0.8835713	0.821478	-0.0620933
0.009138	0.00396	24.02798	20.39164	0.2199225	0.1071751	0.2081489	0.1009738
0.032199	0.01598	17.96421	14.92156	0.8346878	0.9039379	0.8515697	-0.05236821
0.037761	0.03763	14.24436	14.2296	0.091879	0.1496886	0.0934735	-0.05621507
0.035258	0.03429	14.64789	14.52739	0.7886964	0.839124	0.7884822	-0.05064178
0.000205	0.0014	28.53208	36.87762	0.2028434	0.0988389	0.1972013	0.09836241
0.047357	0.03871	14.12209	13.24618	0.153902	0.2238246	0.2886907	0.06486613
0.030221	0.00318	24.97088	15.19691	0.0658865	0.1416684	0.2087048	0.06703643
0.019665	0.00169	27.71451	17.0631	0.0562904	0.4479335	0.5955501	0.1476165
0.012895	0.00059	32.32527	18.89587	0.7396823	0.9027524	0.8258533	-0.07689907
0.000274	0.0008	30.98081	35.62472	0.6686335	0.7511191	0.6536316	-0.09748743
0.000642	0.00149	28.26874	31.92161	0.7215471	0.7971923	0.7064847	-0.09070756
0.003862	0.00562	22.50366	24.13146	0.5744615	0.7414359	0.5587613	-0.1826746
0.008474	6.38E-05	41.95513	20.71933	0.3520185	0.5194845	0.5991582	0.07967371
0.001397	4.92E-05	43.07853	28.54918	0.8092262	0.5374686	0.6932219	0.1557534
4.51E-05	1.28E-06	58.93598	43.45729	0.1777178	0.1064703	0.1635772	0.05710687
0.028379	0.02485	16.04611	15.47005	0.7778146	0.677314	0.5859398	-0.09137424

0.001344	0.00294	25.31549	28.71649	0.2875017	0.163514	0.2792631	0.1157491
0.020221	0.01341	18.72553	16.94192	0.8252725	0.7062871	0.8105863	0.1042992
0.027893	0.04774	13.21083	15.54512	0.242057	0.16951	0.2505911	0.08108104
0.000163	0.0005	33.02149	37.87487	0.5601005	0.7043679	0.5305167	-0.1738512
0.005497	0.00078	31.06636	22.59855	0.2763976	0.537205	0.7058659	0.1686609
0.006757	0.00013	38.80904	21.70252	0.7574213	0.9024788	0.8311585	-0.07132026
0.000371	0.0011	29.58285	34.30917	0.7555247	0.9065488	0.7473872	-0.1591617
3.76E-05	0.00019	37.26025	44.24416	0.7894424	0.8673354	0.7891869	-0.07814851
0.008582	0.00209	26.78866	20.66429	0.9107773	0.8402132	0.7372208	-0.1029923
0.002947	0.00601	22.21029	25.30611	0.6189131	0.7614955	0.587947	-0.1735486
2.54E-06	2.56E-05	45.91872	55.95599	0.824083	0.8857149	0.8283254	-0.05738958
0.005851	0.0248	16.05624	22.32771	0.5396916	0.6104724	0.4952382	-0.1152343
0.006349	0.00156	28.0745	21.97321	0.2090264	0.1440675	0.2154412	0.07137367
0.024068	0.0084	20.75713	16.18569	0.8503727	0.6807322	0.5437954	-0.1369368
0.022813	0.01821	17.3971	16.41811	0.4764191	0.3845102	0.4643615	0.07985137
0.001816	0.00146	28.36322	27.40942	0.039826	0.350372	0.5522751	0.2019031
0.047349	0.00054	32.64985	13.24692	0.7151843	0.5020897	0.5803297	0.07824004
0.006763	0.00196	27.07597	21.69855	0.847091	0.7384273	0.8337435	0.09531619
0.043182	0.0297	15.27278	13.64698	0.6563551	0.7243778	0.6674774	-0.05690034
0.045742	0.00403	23.94716	13.39685	0.040721	0.3940415	0.5418185	0.147777
0.003089	0.00053	32.77879	25.10232	0.555258	0.6661877	0.7253705	0.05918287
0.034521	0.03269	14.85621	14.61918	0.3158542	0.4278432	0.3194209	-0.1084223
0.01326	0.02421	16.16026	18.77457	0.4796563	0.6395072	0.4521158	-0.1873914
0.017033	0.00481	23.17708	17.68711	0.329653	0.1727671	0.2985111	0.125744
0.018533	0.02787	15.54938	17.32049	0.3576474	0.5090686	0.6871887	0.1781202
0.000103	4.58E-05	43.39065	39.85159	0.2596775	0.1531101	0.2430339	0.08992388
0.035469	0.02009	16.97121	14.50154	0.0858741	0.1741578	0.2457172	0.07155937
0.036675	0.02078	16.82443	14.35625	0.7200918	0.598395	0.6962385	0.09784346
0.048879	0.00802	20.95942	13.10878	0.9015018	0.6630106	0.7957051	0.1326945
0.004028	0.00251	25.99584	23.94887	0.8505864	0.7775591	0.843782	0.06622288
0.01953	0.00472	23.26496	17.09296	0.7979381	0.9342642	0.8555201	-0.07874405
0.037598	0.03158	15.00594	14.24836	0.7494449	0.8501152	0.7593738	-0.09074149
0.040523	0.03234	14.90302	13.92295	0.7226748	0.8202231	0.7311085	-0.08911464
0.023947	0.02915	15.35357	16.20749	0.5968774	0.6660354	0.587684	-0.07835143
0.013998	0.00962	20.16987	18.53948	0.8460518	0.7565112	0.8375271	0.08101597
0.000386	0.01168	19.32729	34.13761	0.7139143	0.7651104	0.6440933	-0.121017
0.049272	0.00381	24.19247	13.07399	0.8045843	0.6948225	0.7535412	0.0587187
0.004617	1.59E-05	47.98869	23.35628	0.0327871	0.114536	0.0574728	-0.05706325
0.011301	0.00067	31.74032	19.46887	0.8902481	0.7312839	0.5559058	-0.1753781
0.049775	0.00012	39.13263	13.02988	0.788331	0.539113	0.6147227	0.07560963
0.011927	0.00705	21.52026	19.23479	0.8711467	0.8104916	0.8618598	0.05136818
0.0008	0.00043	33.62583	30.96719	0.2615385	0.1824967	0.249996	0.06749933
0.006974	0.02004	16.98156	21.56513	0.5070742	0.6377866	0.4883932	-0.1493935
0.024086	0.03176	14.98084	16.18227	0.8217849	0.709218	0.5884059	-0.1208121
0.006567	0.01748	17.57393	21.82665	0.7533695	0.8120036	0.7238333	-0.08817034
0.007092	0.00128	28.93043	21.49231	0.7959489	0.7045779	0.7709337	0.06635588
4.31E-05	0.00011	39.51454	43.65702	0.793079	0.8815652	0.7752526	-0.1063125
0.028282	0.04082	13.89155	15.48496	0.5834932	0.6700878	0.5711045	-0.09898318
0.004812	0.00825	20.83321	23.17707	0.8364432	0.8936844	0.8377565	-0.05592798
0.024691	7.94E-06	51.00049	16.07469	0.5727352	0.293124	0.4032529	0.1101289
0.023046	0.01102	19.57652	16.37396	0.6109483	0.7164761	0.6408329	-0.07564324
0.047914	0.02248	16.48142	13.19541	0.875779	0.8017405	0.8563472	0.05460668
0.009595	0.00201	26.95961	20.17937	0.8220923	0.690332	0.6100084	-0.08032358
0.014704	0.00319	24.95834	18.32557	0.8239046	0.7238992	0.7924434	0.06854412

0.007739	0.00439	23.57546	21.11331	0.207109	0.1046898	0.1954471	0.09075722
1.26E-06	7.88E-07	61.03448	58.98752	0.7300317	0.8385491	0.7474939	-0.09105514
0.009324	0.00589	22.30077	20.3041	0.5365378	0.6556308	0.5378254	-0.1178054
0.000417	0.00015	38.30444	33.79722	0.6825975	0.8270311	0.705748	-0.1212831
0.017905	0.02069	16.84263	17.47016	0.9274135	0.838735	0.746923	-0.09181197
0.006123	0.00117	29.33578	22.13042	0.2058254	0.0881356	0.1558928	0.06775723
0.00393	0.00984	20.06937	24.0556	0.2663498	0.1355672	0.2744837	0.1389165
0.000948	0.0029	25.37281	30.23103	0.8886372	0.951593	0.8862056	-0.06538743
0.018421	2.22E-05	46.53458	17.34678	0.8825569	0.6919559	0.7821561	0.09020025
0.022471	0.00131	28.8216	16.48376	0.8740213	0.7324023	0.7906718	0.05826944
0.006243	0.01046	19.80301	22.04582	0.7655818	0.8548876	0.7580073	-0.09688027
0.042399	0.03386	14.70328	13.72641	0.8640733	0.7639135	0.6639511	-0.09996238
0.037041	0.0014	28.53964	14.31315	0.772505	0.4507461	0.3443939	-0.1063522
0.046629	7.03E-05	41.53316	13.3134	0.6639696	0.4563155	0.3630485	-0.09326699
0.000932	0.00018	37.38466	30.3061	0.1197451	0.0506068	0.1019015	0.05129467
0.00511	0.03028	15.18822	22.91551	0.8029922	0.8545847	0.7753975	-0.07918715
0.020159	0.00964	20.16123	16.95537	0.8788277	0.7543909	0.8509338	0.09654299
0.016318	0.01638	17.85579	17.87344	0.8241986	0.725364	0.6217164	-0.1036476
0.026065	0.03621	14.4115	15.83941	0.8954329	0.8428936	0.9015493	0.05865575
0.000752	0.0003	35.26787	31.23618	0.8232245	0.7455567	0.8203088	0.07475208
0.000436	0.00393	24.05072	33.60295	0.7637264	0.6883345	0.582205	-0.1061295
0.000176	0.00145	28.39114	37.5517	0.7222488	0.5833263	0.3856684	-0.197658
0.000186	0.00101	29.95702	37.30072	0.1935296	0.106478	0.1867682	0.08029024
0.000334	5.48E-05	42.6103	34.76811	0.1442785	0.2998671	0.4121771	0.11231
0.024208	0.00974	20.11386	16.1605	0.8954535	0.826938	0.8869539	0.06001592
0.036998	0.00545	22.63262	14.31816	0.9064182	0.6825061	0.5792116	-0.1032945
0.0447	0.00304	25.16526	13.49691	0.596652	0.3907687	0.508866	0.1180973
0.00102	0.00059	32.26425	29.91405	0.5893334	0.6874781	0.5981266	-0.08935156
0.016886	0.01063	19.733	17.72476	0.9036636	0.9584008	0.9055303	-0.05287052
0.01468	0.00422	23.75098	18.33276	0.1758046	0.1047923	0.15799	0.05319772
0.030099	0.03768	14.23945	15.21448	0.921948	0.7968271	0.6662355	-0.1305915
0.038748	0.00152	28.17642	14.11748	0.7902715	0.6586272	0.5981178	-0.06050941
0.001329	0.00186	27.30431	28.7633	0.8353471	0.924146	0.8520948	-0.07205122
0.045196	0.00032	34.96987	13.449	0.1754047	0.5663745	0.6550109	0.08863641
0.047428	0.00257	25.90654	13.23964	0.7985741	0.6489613	0.7135322	0.06457093
0.003214	0.0032	24.94199	24.92931	0.5190285	0.6344295	0.5487441	-0.08568534
5.89E-05	0.02904	15.37032	42.29633	0.7063358	0.6501766	0.7884922	0.1383156
0.011328	1.29E-05	48.88119	19.45848	0.5114475	0.7764972	0.8333061	0.05680887
0.002627	0.00143	28.43482	25.80548	0.689585	0.8327219	0.7172654	-0.1154565
0.023314	0.03365	14.7306	16.32382	0.8545388	0.79641	0.8621261	0.06571608
0.008026	0.02373	16.2473	20.95497	0.5149641	0.630399	0.4848459	-0.145553
0.016696	0.01706	17.68141	17.77381	0.7401722	0.6662219	0.7331913	0.06696939
0.000102	0.00023	36.45859	39.9281	0.1258473	0.0467088	0.1192997	0.07259089
0.027608	0.00108	29.66295	15.58959	0.2335268	0.5014399	0.6272159	0.1257759
0.001964	0.00142	28.47615	27.06756	0.1474742	0.0680916	0.1330016	0.06490991
0.000309	0.00544	22.64711	35.10363	0.7648993	0.8191013	0.7287918	-0.0903095
0.009807	0.02928	15.33487	20.08471	0.8142136	0.7254171	0.6008778	-0.1245393
0.040917	8.93E-07	60.49343	13.88097	0.1241652	0.6123685	0.6889392	0.07657067
0.037164	0.03784	14.22056	14.29881	0.7754427	0.6305995	0.7753297	0.1447302
0.014613	0.0047	23.27505	18.35271	0.5777363	0.6802804	0.6047992	-0.07548118
0.027974	0.01783	17.48892	15.53242	0.8601382	0.744906	0.8396634	0.0947574
0.004735	0.01122	19.49837	23.24678	0.4242325	0.4839662	0.4108249	-0.07314134
0.027004	0.03748	14.26258	15.68579	0.870998	0.9378858	0.869902	-0.06798378
0.00096	0.00218	26.61768	30.17853	0.8419541	0.9028043	0.8257487	-0.07705561

0.000202	6.02E-05	42.2057	36.95105	0.9245498	0.8506951	0.9137954	0.06310025
0.015108	6.75E-05	41.7058	18.20796	0.6661254	0.4746668	0.3903297	-0.08433708
0.001914	0.00316	25.00189	27.18097	0.8739793	0.930959	0.8782407	-0.05271837
0.033268	0.01781	17.49259	14.77979	0.8893153	0.7267464	0.6020716	-0.1246748
0.018965	0.02978	15.261	17.22059	0.3150254	0.257012	0.3512476	0.09423558
0.000484	0.00123	29.10487	33.1475	0.7758373	0.8982133	0.7654136	-0.1327997
0.049955	0.03036	15.17644	13.01424	0.8641713	0.6800627	0.8334141	0.1533515
0.013846	1.33E-05	48.76107	18.58674	0.7148062	0.3967577	0.5093505	0.1125928
0.001887	3.90E-06	54.08411	27.24232	0.164977	0.0844451	0.1462365	0.06179139
0.004007	0.00421	23.76187	23.97182	0.8610958	0.7844948	0.8660732	0.08157837
0.001977	9.87E-05	40.05868	27.03887	0.6039588	0.6721613	0.6030307	-0.06913051
0.014183	0.03042	15.16826	18.48231	0.614328	0.7090201	0.5915248	-0.1174952
0.015362	0.00403	23.94728	18.13559	0.6876442	0.8028637	0.7220824	-0.08078128
0.035706	0.00667	21.75872	14.47254	0.8539363	0.7694002	0.671315	-0.0980853
0.004226	0.00064	31.90738	23.74093	0.5677911	0.762637	0.5976756	-0.1649614
0.004438	0.00563	22.49772	23.52807	0.0898729	0.0171886	0.0730774	0.05588885
0.000742	0.00108	29.66878	31.2982	0.5614354	0.6291106	0.5585274	-0.07058327
0.008066	0.00665	21.7726	20.9335	0.8479653	0.7879519	0.8520229	0.06407104
0.035312	0.00043	33.62213	14.52076	0.6435241	0.4890968	0.5593666	0.07026986
0.019487	4.79E-05	43.19674	17.1025	0.8620153	0.7043663	0.6462145	-0.05815178
0.019571	8.40E-05	40.75891	17.08385	0.4378738	0.7261992	0.8348034	0.1086042
0.005975	0.00728	21.38082	22.23688	0.8324518	0.9111639	0.8339636	-0.07720035
0.001109	0.00222	26.53029	29.55164	0.1541673	0.0970081	0.1600971	0.06308901
0.033025	0.00214	26.69844	14.81155	0.1059946	0.3210443	0.4314852	0.1104409
0.04656	0.00484	23.15112	13.31991	0.8663478	0.682277	0.7767069	0.09442993
0.002341	0.00232	26.34265	26.3056	0.8585218	0.8008186	0.861239	0.06042031
0.046774	0.00436	23.60722	13.29993	0.1583716	0.2616324	0.1793626	-0.08226979
0.007898	0.00051	32.91408	21.02474	0.6135527	0.4557262	0.5432797	0.08755343
0.026503	0.00219	26.59307	15.76709	0.0582032	0.487022	0.6452245	0.1582025
0.036442	0.00712	21.47253	14.38395	0.7855968	0.8907637	0.8244982	-0.06626549
0.049894	8.20E-05	40.86082	13.01954	0.6786668	0.4408538	0.3811508	-0.05970294
0.021574	0.00409	23.887	16.66071	0.7803039	0.6349452	0.7262971	0.09135187
0.022986	0.00334	24.76903	16.38543	0.8394027	0.7338218	0.6546613	-0.07916048
0.037182	0.0373	14.28265	14.29673	0.6094545	0.6661412	0.6054133	-0.06072793
0.04279	1.16E-05	49.3368	13.68658	0.7793747	0.4579068	0.3876638	-0.070243
0.000533	0.0102	19.91573	32.73162	0.7343762	0.801461	0.6780321	-0.1234289
0.000495	0.00538	22.69537	33.05041	0.4551942	0.526308	0.4484483	-0.07785964
5.60E-05	3.55E-05	44.49612	42.51485	0.1102674	0.0405317	0.1046113	0.06407963
0.031328	0.03184	14.96959	15.04068	0.8462929	0.6839578	0.8494759	0.1655181
5.04E-05	0.0001	39.81467	42.97794	0.5763373	0.7087229	0.5837834	-0.1249394
0.014721	0.00188	27.26797	18.3207	0.8514206	0.7100279	0.7929618	0.08293386
0.011273	0.0003	35.21487	19.47954	0.8066363	0.6606827	0.7342812	0.07359847
0.000553	0.00194	27.11494	32.57185	0.6366835	0.7285866	0.6067908	-0.1217958
0.022465	0.00976	20.10453	16.48486	0.8404822	0.743148	0.8141339	0.070986
0.00563	0.02071	16.83837	22.49486	0.6883832	0.747151	0.670125	-0.07702592
0.004692	0.0041	23.87059	23.28625	0.357939	0.2484766	0.3482424	0.09976576
0.001142	0.00105	29.7889	29.42196	0.8198574	0.8923936	0.80962	-0.08277368
0.034345	0.00513	22.89879	14.64136	0.8153255	0.685542	0.5627039	-0.1228382
0.03083	0.02763	15.58676	15.11031	0.8177534	0.9345317	0.8067325	-0.1277992
0.025412	0.02835	15.47478	15.94958	0.9059864	0.8359896	0.7351978	-0.1007918
0.010752	0.02847	15.45623	19.68521	0.7841316	0.8354783	0.7681238	-0.0673545
0.045925	0.03745	14.26523	13.37951	0.8691661	0.6946921	0.8556492	0.1609571
0.042956	0.02543	15.94616	13.66975	0.7547333	0.5856158	0.4520002	-0.1336156
0.000139	2.30E-06	56.38893	38.58028	0.2967328	0.1198092	0.2480969	0.1282877

0.013643	0.02064	16.85212	18.65075	0.4685045	0.5814683	0.4661559	-0.1153124
0.013527	0.01799	17.44899	18.68794	0.3596602	0.4579044	0.353238	-0.1046665
0.003225	0.00237	26.24614	24.91504	0.571486	0.6427124	0.580765	-0.06194734
0.033357	1.96E-06	57.06672	14.7681	0.1959596	0.6142032	0.6919751	0.07777185
1.40E-05	7.20E-07	61.42438	48.53574	0.2003211	0.1025018	0.1852329	0.08273111
0.043352	0.01518	18.18841	13.62994	0.8464686	0.7379312	0.8184229	0.08049174
0.001624	0.00043	33.69576	27.89346	0.8060604	0.6217818	0.4928505	-0.1289313
0.000641	0.00012	39.26015	31.93257	0.2076421	0.0676573	0.1906688	0.1230115
0.00033	0.00031	35.11605	34.80848	0.8191766	0.9202959	0.8265962	-0.09369967
0.004832	0.00338	24.71238	23.15907	0.6735797	0.7624695	0.6775017	-0.08496773
0.011467	0.03072	15.1262	19.40539	0.8555151	0.9146551	0.8305589	-0.08409623
0.000677	0.00331	24.79724	31.69597	0.7916132	0.8440305	0.7750511	-0.06897943
0.003243	0.00355	24.49838	24.89	0.475294	0.3807954	0.4764103	0.09561491
0.002294	0.00136	28.65097	26.39405	0.7833233	0.8611655	0.7959405	-0.06522501
0.015141	0.02118	16.74129	18.19851	0.6727	0.5707148	0.6621822	0.09146736
0.000627	0.00428	23.68888	32.02836	0.7309265	0.7986191	0.7043845	-0.09423456
0.008972	0.00688	21.62324	20.47105	0.8032132	0.8803776	0.8142806	-0.06609698
0.001131	0.00128	28.92431	29.46663	0.6868272	0.8106827	0.6992652	-0.1114174
0.001599	0.00329	24.82688	27.96177	0.8960368	0.7539632	0.8776844	0.1237212
0.009063	0.0413	13.84	20.42734	0.7429634	0.8019602	0.7143886	-0.08757153
0.045755	0.00315	25.01964	13.39558	0.7024765	0.8797285	0.7858827	-0.09384581
0.025612	0.01121	19.50477	15.9156	0.5938012	0.7524892	0.6236838	-0.1288055
0.016898	0.00635	21.97356	17.72176	0.867089	0.7207162	0.8182864	0.09757014
0.050072	0.03872	14.12118	13.00403	0.6864561	0.7762849	0.6939904	-0.08229445
0.006259	0.00021	36.73549	22.03463	0.7444945	0.6551527	0.7054049	0.05025222
0.000411	7.07E-05	41.50389	33.86382	0.1540755	0.0683893	0.1361918	0.06780242
0.000787	0.00059	32.32809	31.03992	0.6946293	0.7612851	0.6884331	-0.07285207
0.002266	0.04421	13.54516	26.44678	0.0728933	0.1796194	0.4333235	0.2537041
0.037286	0.00088	30.5442	14.28451	0.1097184	0.4409376	0.5432853	0.1023477
0.021148	0.01587	17.99349	16.74728	0.5224308	0.6253573	0.721381	0.09602372
0.015234	0.01948	17.10324	18.17197	0.8842657	0.7788728	0.8935875	0.1147147
0.000516	6.82E-05	41.66471	32.87148	0.1110489	0.2720032	0.4317561	0.1597529
0.007275	0.00648	21.88185	21.38173	0.7020627	0.8629526	0.7088993	-0.1540533
0.004444	0.00528	22.77207	23.52232	0.5767068	0.7434933	0.5810748	-0.1624185
1.01E-05	1.97E-05	47.06359	49.96439	0.6260897	0.7893855	0.6466371	-0.1427484
0.022266	0.00833	20.79512	16.52356	0.2941778	0.1701933	0.2679583	0.097765
0.048749	0.02547	15.9398	13.12033	0.7277754	0.6086902	0.6672915	0.05860127
0.000816	8.87E-05	40.52065	30.8845	0.6654571	0.564566	0.6419658	0.0773998
0.005857	0.0048	23.18613	22.323	0.8690606	0.7796895	0.6883996	-0.09128994
0.007637	0.00472	23.26018	21.17053	0.8596303	0.7238881	0.6180556	-0.1058325
0.04098	0.01096	19.60064	13.87428	0.8352597	0.7353674	0.6568486	-0.07851881
0.025456	0.04581	13.39048	15.94206	0.7641374	0.846098	0.7464501	-0.09964794
0.010767	0.00443	23.53521	19.67909	0.9163324	0.8373979	0.8960454	0.05864746
0.014812	0.00389	24.09548	18.29381	0.7654305	0.6209154	0.5280034	-0.09291196
0.043615	0.00986	20.06207	13.60369	0.839339	0.6966227	0.7930623	0.09643965
0.004355	0.0029	25.38148	23.60971	0.7171506	0.8418764	0.7102335	-0.1316429
0.006129	0.00357	24.47767	22.12607	0.1911158	0.1288399	0.190121	0.06128104
0.00445	0.00127	28.95473	23.51643	0.7245381	0.7874327	0.7334818	-0.0539509
0.010608	0.00975	20.11211	19.74373	0.9207177	0.8200312	0.6944498	-0.1255814
0.036745	0.00169	27.73305	14.34807	0.848097	0.7388634	0.7929129	0.05404949
3.93E-05	3.12E-05	45.06093	44.05832	0.6289424	0.7455207	0.6319957	-0.113525
0.001233	0.00025	36.10792	29.09065	0.0742989	0.2114772	0.0945242	-0.116953
0.021495	0.00113	29.46346	16.67672	0.8153864	0.6794052	0.7494612	0.07005611
1.83E-05	4.44E-05	43.52822	47.37344	0.7538328	0.8823558	0.7230604	-0.1592954

8.26E-05	6.55E-06	51.83784	40.83196	0.2530592	0.1171928	0.2674303	0.1502376
0.003289	0.00371	24.31201	24.82976	0.2221	0.092762	0.218596	0.125834
3.39E-06	8.62E-07	60.6429	54.69779	0.2613517	0.1131513	0.2434846	0.1303333
0.040858	0.00099	30.02477	13.88718	0.8809438	0.7439415	0.6679304	-0.0760111
0.003356	0.00152	28.1691	24.7415	0.5698571	0.7605876	0.565899	-0.1946887
0.01471	0.00122	29.12236	18.32384	0.8908517	0.7317746	0.8076463	0.07587167
0.018521	0.01892	17.23171	17.32336	0.6421227	0.7289917	0.6379091	-0.0910826
0.036292	0.0151	18.20908	14.40188	0.8778795	0.747255	0.8460492	0.09879427
0.006072	0.0144	18.4157	22.16661	0.8365579	0.7551334	0.8562505	0.1011171
0.017838	0.00056	32.49719	17.48656	0.7972688	0.6346731	0.7147799	0.08010674
0.006693	0.00439	23.5723	21.74408	0.8611919	0.672068	0.8099059	0.1378379
0.008167	0.00417	23.79479	20.87963	0.8619225	0.9318885	0.8699527	-0.06193582
0.00551	0.01303	18.85126	22.58832	0.7950061	0.8734273	0.7882572	-0.08517008
0.016582	0.01076	19.68037	17.8037	0.7799411	0.9174572	0.85405	-0.06340716
3.81E-05	7.31E-07	61.3582	44.19366	0.1557615	0.0738366	0.1401859	0.06634928
0.002214	0.00078	31.05205	26.54803	0.9053076	0.8420665	0.8963985	0.05433203
0.009751	0.00354	24.51475	20.10971	0.0745559	0.3617399	0.5277373	0.1659974
0.044709	0.00145	28.37416	13.49606	0.8238238	0.6733425	0.7368156	0.06347305
0.015998	0.02125	16.72653	17.9594	0.8486105	0.9422843	0.878444	-0.06384039
0.042308	0.02352	16.28604	13.73575	0.8812004	0.8122845	0.8663443	0.0540598
0.01591	0.02222	16.5322	17.9832	0.8025382	0.6858251	0.813002	0.1271769
0.000332	0.00177	27.5109	34.78548	0.8609086	0.9223713	0.8514218	-0.07094956
0.021282	0.00193	27.13437	16.71992	0.881695	0.7655826	0.8220305	0.05644798
0.00158	0.00759	21.19626	28.01456	0.8642783	0.9187361	0.8444448	-0.07429136
0.014422	0.00947	20.23723	18.40989	0.7524451	0.8513688	0.76576	-0.08560883
0.043191	0.008	20.96678	13.64611	0.0457063	0.2353133	0.4043755	0.1690622
0.017635	0.01298	18.86683	17.53616	0.7765435	0.8468962	0.7834776	-0.06341857
0.0026	0.00093	30.32076	25.85095	0.891319	0.7615153	0.6167342	-0.1447811
0.020578	0.02027	16.93184	16.86597	0.8365938	0.8949731	0.836803	-0.05817006
0.001511	0.001	29.99249	28.20702	0.3838705	0.2483787	0.3832259	0.1348472
0.003335	0.00902	20.4481	24.76955	0.5539574	0.6179247	0.5396938	-0.07823087
2.71E-05	6.70E-05	41.73694	45.66914	0.1945729	0.1351252	0.190781	0.05565578
0.01307	5.74E-05	42.40929	18.83717	0.1448739	0.4841895	0.549711	0.06552149
0.009439	0.0012	29.21171	20.25085	0.8646582	0.7462821	0.8233551	0.07707298
0.048433	0.00092	30.35556	13.1486	0.7791755	0.6055148	0.677203	0.07168822
8.27E-07	2.26E-07	66.45399	60.82428	0.1339555	0.0608959	0.1264208	0.06552488
0.009279	0.00513	22.90025	20.32487	0.8889791	0.721178	0.5718123	-0.1493657
0.034497	1.39E-06	58.56688	14.62225	0.7310933	0.3999053	0.4631504	0.06324505
0.000202	0.00046	33.40069	36.93642	0.5844834	0.7027514	0.5784463	-0.1243051
2.38E-05	9.93E-05	40.03049	46.23842	0.4369996	0.3371828	0.4630578	0.125875
0.041382	7.70E-05	41.13654	13.83186	0.4903501	0.7151961	0.7698643	0.05466812
0.018474	0.00078	31.08054	17.33435	0.7960909	0.6599141	0.7305503	0.07063621
0.000194	1.79E-05	47.4665	37.11147	0.2604495	0.1293939	0.2181109	0.08871698
0.0417	0.03673	14.34967	13.79867	0.9252717	0.8697122	0.9235708	0.05385866
0.002464	0.00659	21.81099	26.08352	0.6181102	0.6805194	0.6058558	-0.07466368
0.001165	0.00108	29.66203	29.336	0.6275306	0.7289043	0.6424868	-0.08641754
0.004398	3.35E-07	64.75526	23.56781	0.0959526	0.5883701	0.7098383	0.1214681
0.030447	0.01136	19.44734	15.16454	0.8974653	0.7475051	0.6316168	-0.1158884
0.001167	0.00013	38.75588	29.33112	0.2222846	0.4952516	0.6154311	0.1201796
0.02565	0.0235	16.29009	15.90919	0.1508942	0.2274647	0.1539449	-0.07351974
0.043163	0.02821	15.49607	13.64885	0.8236156	0.6438933	0.7998254	0.1559321
0.001886	0.00169	27.70835	27.24414	0.5711849	0.6743987	0.5722663	-0.1021324
0.038592	0.0036	24.43584	14.13507	0.8375062	0.7204269	0.7814231	0.06099618
0.003404	0.00017	37.78625	24.68064	0.8042359	0.6146253	0.4473541	-0.1672712

0.002806	0.0008	30.99395	25.51927	0.7942352	0.722666	0.7765405	0.05387445
0.010823	0.02306	16.37138	19.65643	0.2265202	0.1763945	0.2374789	0.06108434
2.05E-05	2.11E-05	46.74722	46.87574	0.5877132	0.6796765	0.577427	-0.1022496
0.000572	0.00054	32.70831	32.42944	0.5051501	0.6052552	0.4944468	-0.1108085
0.011011	0.01165	19.33601	19.58166	0.561521	0.6509517	0.5636636	-0.08728808
0.025837	0.03206	14.94085	15.8775	0.2796732	0.1921741	0.3021288	0.1099547
0.00188	1.43E-08	78.43356	27.25766	0.0837878	0.5368698	0.6582512	0.1213814
0.048037	0.01498	18.24479	13.18422	0.4509236	0.6282504	0.7565478	0.1282974
0.000307	0.0003	35.26586	35.12819	0.6792841	0.9248984	0.6986117	-0.2262867
0.03547	0.00049	33.05455	14.50139	0.8131124	0.608291	0.5402295	-0.06806151
0.02274	0.00284	25.47395	16.43212	0.8997158	0.7939088	0.862164	0.0682551
0.001853	0.00166	27.79421	27.32209	0.5758882	0.6709241	0.5567397	-0.1141845
0.036846	0.02701	15.68535	14.33607	0.8757047	0.7236665	0.8669376	0.1432712
0.044226	4.05E-05	43.92657	13.54323	0.399812	0.6242666	0.6822867	0.05802013
0.00677	0.01355	18.68002	21.69436	0.5957715	0.812825	0.5686045	-0.2442204
0.019722	0.03107	15.07593	17.05056	0.8660093	0.9182682	0.8581373	-0.06013084
0.000687	0.00011	39.7136	31.63231	0.1466395	0.061926	0.1285909	0.06666482
0.006636	8.53E-06	50.68854	21.78119	0.2676622	0.6173303	0.7212954	0.1039651
0.022846	0.00045	33.44015	16.41185	0.8261425	0.6869166	0.772369	0.08545243
0.000873	0.00129	28.89953	30.58959	0.1264263	0.065369	0.1307635	0.06539445
0.007628	0.00946	20.24138	21.17606	0.1659654	0.2343753	0.1750527	-0.05932253
0.038015	0.00041	33.87577	14.20044	0.7888689	0.6865399	0.6190637	-0.06747624
0.022143	0.00098	30.06819	16.54763	0.6554275	0.4589669	0.6275743	0.1686074
0.034743	0.01686	17.73167	14.59127	0.6682997	0.5391508	0.6479335	0.1087827
0.038345	0.00257	25.89852	14.16293	0.7923822	0.6450205	0.5726191	-0.07240139
0.001563	0.00639	21.94252	28.06044	0.9150866	0.96908	0.8986089	-0.07047109
0.023201	0.0201	16.96897	16.34501	0.8943768	0.7990955	0.6937395	-0.105356
0.001042	0.00073	31.39567	29.81996	0.1292101	0.0496363	0.1217441	0.07210785
0.047865	0.04235	13.73144	13.19984	0.7853048	0.838279	0.7509946	-0.08728436
0.023011	0.02049	16.88457	16.38056	0.8147471	0.6615982	0.8127109	0.1511127
0.018587	0.03123	15.05479	17.30791	0.7807434	0.8503352	0.7731737	-0.07716142
0.02293	0.01386	18.58189	16.39602	0.8241427	0.7410141	0.811536	0.07052185
0.045502	0.01274	18.94998	13.4197	0.0711881	0.188173	0.2897973	0.1016243
0.001535	0.001	29.99105	28.13806	0.8299498	0.9007164	0.8191015	-0.08161496
0.022412	0.00227	26.4319	16.49529	0.8163719	0.627256	0.5328833	-0.09437261
0.003785	0.00459	23.38035	24.21953	0.785398	0.841372	0.7814512	-0.05992081
0.008854	0.00194	27.12607	20.52856	0.4379842	0.586504	0.6463148	0.05981084
0.018683	0.01157	19.36547	17.28564	0.8812995	0.8129757	0.8727483	0.05977259
0.002151	0.00355	24.49298	26.67284	0.1065877	0.0538011	0.108161	0.05435985
0.005088	0.00268	25.71407	22.9342	0.6832798	0.5660677	0.6573285	0.09126081
0.001211	0.00046	33.38861	29.16834	0.4915439	0.4284128	0.4937872	0.06537438
0.038274	0.01509	18.21227	14.17099	0.8559396	0.6886485	0.573361	-0.1152874
0.019141	0.01596	17.96966	17.1803	0.7408894	0.6590782	0.7416125	0.08253427
0.012878	0.00551	22.58976	18.90156	0.1197843	0.0531361	0.1065657	0.05342965
0.006772	0.00915	20.38351	21.69281	0.7311675	0.7952917	0.7281206	-0.06717108
0.030544	0.01741	17.59306	15.15081	0.8189554	0.7045301	0.6029803	-0.1015498
0.017349	0.0066	21.80501	17.60724	0.7940983	0.8852917	0.8142821	-0.07100967
0.018913	0.0048	23.19065	17.23238	0.7665324	0.6947842	0.7487376	0.05395338
0.032609	0.0033	24.81269	14.86667	0.8666578	0.7610018	0.8228656	0.06186375
7.89E-05	0.00016	38.00879	41.03	0.1719039	0.0762942	0.1596948	0.08340065
0.005886	0.00474	23.24629	22.30146	0.5352728	0.308681	0.5444049	0.2357238
0.017202	0.00105	29.77406	17.64432	0.1307324	0.2144165	0.2884167	0.07400018
0.019311	0.00265	25.76712	17.1419	0.7435767	0.6348349	0.7066997	0.0718648
0.023289	0.02533	15.96398	16.32841	0.7819206	0.7283065	0.7830242	0.0547177

0.041367	0.00574	22.41461	13.83342	0.8124996	0.6342282	0.7356533	0.1014251
8.95E-07	2.11E-05	46.75298	60.48362	0.1121569	0.0580444	0.1111438	0.05309938
0.006571	0.02581	15.88263	21.82364	0.6327941	0.7327418	0.5930723	-0.1396695
0.004658	1.72E-06	57.65385	23.31782	0.3954248	0.7759894	0.6882312	-0.08775821
0.031238	0.00315	25.02111	15.05323	0.8821579	0.5895408	0.7425286	0.1529879
0.005178	0.00303	25.17929	22.85817	0.0762209	0.2448728	0.3837108	0.138838
0.040001	0.00012	39.14862	13.97929	0.5227862	0.8033224	0.8614057	0.05808327
0.046286	0.03407	14.67576	13.34546	0.7336756	0.8112804	0.747284	-0.06399636
0.001846	0.00172	27.6407	27.33668	0.8340837	0.9239803	0.8499491	-0.07403115
0.002724	0.01708	17.67489	25.64872	0.8228874	0.9064526	0.8338371	-0.0726155
5.78E-05	0.00017	37.66295	42.37945	0.0813749	0.1593915	0.2649362	0.1055447
0.036433	0.03931	14.05541	14.38503	0.8450155	0.9002838	0.8427318	-0.05755201
0.036142	0.00106	29.75386	14.41991	0.723083	0.5629305	0.6503038	0.0873734
0.00054	0.00124	29.0566	32.67441	0.2770146	0.1586049	0.2844077	0.1258027
0.004972	0.03205	14.94179	23.0351	0.174887	0.119269	0.2078072	0.08853817
0.008605	0.00259	25.8722	20.6523	0.8656018	0.9427927	0.8177754	-0.1250173
0.035597	0.0314	15.03043	14.48587	0.0982365	0.2501765	0.3865135	0.136337
0.000229	0.00047	33.25048	36.40095	0.6184356	0.6958132	0.5753652	-0.1204481
0.036227	0.00214	26.69015	14.40964	0.8488378	0.7508029	0.6498129	-0.10099
0.002725	0.00153	28.15083	25.64606	0.7653587	0.6191621	0.5441259	-0.07503619
0.001005	0.0113	19.47097	29.97642	0.7121762	0.7898468	0.6806834	-0.1091634
0.003899	0.00508	22.94012	24.09022	0.2281816	0.154807	0.2322621	0.07745507
0.04998	0.02083	16.8124	13.01202	0.8588724	0.7881376	0.8419406	0.05380298
0.017804	0.01771	17.51885	17.49473	0.4768523	0.560733	0.4796149	-0.08111808
0.01107	0.00064	31.94719	19.55865	0.345819	0.2234431	0.2912261	0.06778296
0.023502	0.02414	16.17246	16.28903	0.4556906	0.3991558	0.3050058	-0.09415005
0.035564	0.00286	25.43554	14.48986	0.5413949	0.7073702	0.7968778	0.08950763
0.000259	1.35E-05	48.69834	35.86802	0.8817627	0.9783858	0.9166237	-0.06176215
0.026668	2.19E-06	56.58928	15.74006	0.0975217	0.2690935	0.3452912	0.07619767
0.000183	0.00075	31.25387	37.37245	0.7635683	0.8464213	0.7238335	-0.1225878
0.002019	0.00116	29.35466	26.94909	0.8128092	0.9121879	0.8216956	-0.09049231
0.039813	0.0042	23.7715	13.99972	0.762596	0.5498784	0.6766738	0.1267954
0.037402	0.03043	15.16675	14.27103	0.7689384	0.666169	0.7572467	0.09107766
0.042205	0.00847	20.71955	13.74638	0.9180333	0.830848	0.752521	-0.07832703
0.04377	0.02481	16.05326	13.58822	0.0352151	0.0921979	0.1543776	0.06217965
0.044006	0.01259	18.99891	13.56489	0.0820121	0.1939511	0.1095735	-0.08437756
0.022168	9.94E-06	50.02759	16.54275	0.1589209	0.3022549	0.3946159	0.092361
0.04769	0.00941	20.26318	13.2157	0.4593049	0.6747038	0.5503728	-0.124331
0.004599	0.00146	28.35053	23.37367	0.8663488	0.7432858	0.8387079	0.0954221
0.042612	0.00566	22.47409	13.70471	0.8459581	0.7679319	0.6775097	-0.09042213
0.049692	0.04742	13.24009	13.03713	0.8945073	0.8286713	0.8923402	0.06366894
0.005109	0.00013	38.78205	22.91685	0.6886124	0.5312698	0.6169275	0.08565761
0.005836	0.02176	16.62397	22.33852	0.7439914	0.805891	0.7232514	-0.08263966
0.00489	0.02124	16.72763	23.10695	0.8627472	0.9345587	0.8778607	-0.05669806
0.000319	0.0001	39.97609	34.95587	0.5799857	0.730887	0.5791241	-0.1517629
0.00911	0.00634	21.98133	20.40504	0.751509	0.6958419	0.7523646	0.05652268
3.00E-05	0.00048	33.23217	45.22763	0.7770312	0.8693549	0.7330489	-0.136306
0.0002	0.00068	31.69101	36.98473	0.8568398	0.9110675	0.8417393	-0.06932817
0.018183	0.02615	15.82523	17.40334	0.8810583	0.8248029	0.8883384	0.06353558
0.010267	6.46E-05	41.89864	19.88563	0.6397665	0.4590691	0.3638475	-0.09522163
0.009219	0.00107	29.72182	20.35335	0.8250647	0.7385522	0.7960194	0.05746723
0.007776	0.00129	28.88499	21.0924	0.819963	0.746443	0.8116627	0.06521966
0.006381	0.0269	15.70178	21.95095	0.6705217	0.5768809	0.6973282	0.1204473
0.008939	0.0056	22.52169	20.48735	0.2864002	0.1893489	0.2860584	0.0967095



0.01206	0.01235	19.08461	19.18645	0.2522914	0.1737334	0.2502214	0.07648799
0.000641	0.00064	31.91838	31.93339	0.7102362	0.8505191	0.7201205	-0.1303986
0.023702	0.00013	38.96487	16.25223	0.213718	0.600622	0.6988959	0.09827386
0.001875	0.0018	27.44923	27.2691	0.9113117	0.9719321	0.9202839	-0.05164821
0.01257	0.03036	15.17669	19.00651	0.581336	0.6459255	0.5642811	-0.08164436
0.003751	0.01211	19.16678	24.25868	0.3636663	0.5319298	0.7423806	0.2104508
0.007361	0.00296	25.28281	21.33071	0.3926705	0.3065812	0.3792848	0.07270363
0.005431	6.43E-05	41.91472	22.65114	0.3764019	0.7105347	0.5976838	-0.1128509
0.024906	1.49E-06	58.26482	16.03688	0.1614596	0.682587	0.7426034	0.06001631
0.007335	0.02582	15.88097	21.34571	0.6018512	0.6645416	0.5797039	-0.0848377
0.016862	0.00101	29.96237	17.73091	0.8189052	0.5139259	0.3777165	-0.1362093
0.002522	0.00026	35.89348	25.98286	0.1023093	0.3224739	0.4482683	0.1257944
0.007895	0.00343	24.64871	21.0266	0.0645367	0.1630038	0.0948272	-0.06817665
0.023817	0.03585	14.45532	16.23122	0.8079909	0.8695005	0.7991769	-0.07032364
0.009613	0.00456	23.40902	20.17157	0.1582414	0.062521	0.1377643	0.07524326
0.019949	8.40E-05	40.75566	17.00081	0.8898005	0.6079242	0.5180615	-0.0898627
0.003577	1.60E-07	67.97181	24.46495	0.2051587	0.7045226	0.7864974	0.08197481
0.001656	0.01593	17.97679	27.80832	0.0868074	0.2364479	0.4641076	0.2276597
0.000224	4.20E-05	43.76635	36.49873	0.8693064	0.9533079	0.8569365	-0.09637136
0.026233	4.27E-05	43.69806	15.81149	0.697114	0.4379098	0.5241463	0.08623654
0.00447	0.00742	21.29579	23.49681	0.7456459	0.8543929	0.7391936	-0.1151994
0.022808	0.00831	20.80272	16.41913	0.8700254	0.7964253	0.8510307	0.05460536
0.004588	0.01165	19.33756	23.38385	0.8420839	0.6994413	0.5272915	-0.1721497
0.016016	0.02809	15.51481	17.95436	0.8751389	0.8085487	0.8864611	0.07791243
0.037918	0.00733	21.34966	14.2115	0.0908317	0.3587507	0.5140172	0.1552665
0.000456	0.00013	38.75165	33.41498	0.1391455	0.0653055	0.1303854	0.06507985
0.00261	0.00109	29.61701	25.83298	0.7490215	0.6261816	0.5193521	-0.1068295
0.006241	0.01179	19.28607	22.04721	0.7668945	0.6536214	0.5198514	-0.13377
0.000537	0.00073	31.34238	32.69627	0.7173306	0.7842882	0.7151742	-0.06911395
0.048057	0.02725	15.64638	13.18245	0.6886045	0.7712743	0.7064118	-0.0648625
0.000773	2.11E-07	66.75444	31.11853	0.1252202	0.5544664	0.6817506	0.1272842
0.048596	0.03747	14.26296	13.13397	0.2843479	0.2014511	0.2747321	0.07328098
0.003527	0.00158	28.00363	24.52612	0.1270079	0.065822	0.120407	0.05458498
0.021812	0.01266	18.97512	16.61308	0.7956931	0.6974536	0.6120026	-0.08545092
0.012862	1.34E-05	48.74506	18.90684	0.395181	0.6966238	0.6348148	-0.06180898
0.035732	8.75E-05	40.58053	14.46939	0.0551631	0.1390193	0.25042	0.1114007
0.001355	0.00713	21.46802	28.68038	0.6655259	0.739554	0.6398017	-0.09975231
0.000182	2.58E-07	65.87997	37.40569	0.6077771	0.6949881	0.5972092	-0.097779
0.013436	0.00984	20.06803	18.71743	0.0704208	0.1856856	0.2828372	0.09715155
0.042434	0.03357	14.74073	13.7229	0.891861	0.7267458	0.8779191	0.1511733
0.001436	0.00124	29.06281	28.42949	0.8817577	0.945849	0.8890414	-0.05680763
0.049184	0.01441	18.41356	13.08172	0.7599598	0.6187455	0.5220417	-0.09670385
0.000268	0.00033	34.79527	35.71751	0.5536052	0.6700126	0.5388429	-0.1311697
0.001569	0.03893	14.0972	28.0451	0.7640339	0.8261732	0.6941621	-0.1320111
0.001592	0.00058	32.36373	27.9801	0.7997304	0.8506545	0.7973616	-0.05329288
0.026999	0.00068	31.69372	15.68651	0.6127673	0.3770634	0.4763507	0.09928729
0.025744	0.00015	38.29988	15.89325	0.6708561	0.4652711	0.5325823	0.06731126
0.018909	0.00169	27.72208	17.23321	0.7678385	0.6390077	0.7195984	0.08059066
0.027831	0.0184	17.35242	15.55469	0.9458693	0.8474316	0.7299746	-0.117457
0.004966	0.00736	21.33408	23.04012	0.5503694	0.6987563	0.5499736	-0.1487827
0.018095	0.00174	27.58352	17.42445	0.0708398	0.3459122	0.4801041	0.1341919
0.000274	0.00015	38.17458	35.62791	0.6449005	0.7966191	0.6430823	-0.1535368
0.025157	0.01592	17.97991	15.99346	0.2494756	0.185122	0.2424916	0.05736957
0.002587	0.00404	23.9346	25.8722	0.5985221	0.6582883	0.5891188	-0.06916944

0.033307	0.03107	15.07679	14.77464	0.7910946	0.86192	0.7962339	-0.06568612
0.036872	0.01609	17.93506	14.33303	0.8541886	0.79412	0.7289114	-0.06520859
0.008642	0.00333	24.7748	20.63366	0.923054	0.8569126	0.9095886	0.05267596
0.006034	0.00012	39.34179	22.19393	0.8599786	0.7237438	0.6416897	-0.08205411
0.001898	1.57E-06	58.0517	27.21605	0.1473353	0.2427583	0.3029832	0.0602248
0.000632	0.00451	23.45699	31.99013	0.6990868	0.783291	0.6779573	-0.1053337
0.000603	0.00292	25.34059	32.19459	0.5907561	0.7047929	0.5908295	-0.1139634
0.000293	0.00027	35.62484	35.32535	0.6462782	0.8684574	0.5928979	-0.2755595
0.023403	0.03423	14.65648	16.30732	0.5826363	0.4971206	0.5828086	0.08568802
0.000349	0.00039	34.06522	34.56764	0.2481113	0.4140447	0.255119	-0.1589257
0.016861	0.00677	21.69225	17.73129	0.9028736	0.8013848	0.7229705	-0.07841427
0.044608	3.02E-05	45.19514	13.50587	0.0855329	0.1561613	0.2478125	0.09165121
0.021284	0.03924	14.06219	16.71937	0.51426	0.5659701	0.5024561	-0.0635139
0.031606	0.03138	15.03371	15.00229	0.787912	0.8741297	0.7899951	-0.08413453
0.002179	0.00084	30.77113	26.61662	0.7362235	0.8803216	0.7760215	-0.1043002
0.036753	0.03938	14.04693	14.34705	0.7016828	0.7926367	0.6987739	-0.09386276
0.040359	0.00958	20.18848	13.94057	0.8485709	0.476063	0.6892995	0.2132364
3.54E-07	1.78E-05	47.50528	64.51202	0.6684647	0.7555802	0.6426242	-0.112956
0.011629	0.00952	20.21312	19.34458	0.8695543	0.781881	0.8656636	0.08378257
0.000227	0.00025	36.02885	36.44771	0.1783746	0.0943901	0.1803016	0.08591149
0.012497	0.00089	30.52999	19.03192	0.8856332	0.8078076	0.8816693	0.07386165
0.00262	0.00044	33.51907	25.81733	0.8666736	0.7750161	0.8262596	0.05124352
0.015043	0.00744	21.28324	18.22671	0.0186174	0.1235958	0.046985	-0.07661079
0.034006	0.01278	18.93557	14.68443	0.8445415	0.915603	0.8621809	-0.05342203
0.021865	0.01521	18.17785	16.60261	0.7752437	0.6722498	0.7683904	0.09614053
5.37E-05	2.14E-06	56.68584	42.70178	0.8810602	0.9531128	0.883523	-0.06958976
0.000234	3.49E-05	44.57389	36.31704	0.1846501	0.0887583	0.1621939	0.07343557
0.003472	0.03063	15.13792	24.59394	0.5193726	0.5962079	0.4664795	-0.1297284
0.048401	0.00288	25.40495	13.15149	0.8243753	0.6949428	0.6185218	-0.07642096
0.01129	0.01119	19.51106	19.47316	0.7323202	0.7991993	0.7340161	-0.06518319
0.001493	0.00159	27.98636	28.26077	0.5043667	0.5782061	0.4921745	-0.08603156
0.043528	0.00065	31.88164	13.61232	0.0572064	0.3068146	0.3908434	0.08402884
0.001141	0.04033	13.94407	29.42555	0.5390809	0.4793817	0.6083573	0.1289756
0.00184	0.00076	31.18954	27.35241	0.7834717	0.6065164	0.4680168	-0.1384997
0.007187	0.00806	20.93681	21.43476	0.5325487	0.7190413	0.5307211	-0.1883202
0.033003	0.02222	16.53295	14.8145	0.2118459	0.147759	0.2069256	0.05916667
0.041019	0.01043	19.8152	13.8701	0.7805085	0.5927656	0.47565	-0.1171155
0.04046	0.02696	15.69339	13.92975	0.8799723	0.7105139	0.8524376	0.1419236
0.001998	0.01965	17.06697	26.99477	0.7330087	0.79776	0.6986548	-0.09910515
0.000254	3.48E-05	44.57869	35.95025	0.7391492	0.851213	0.7838837	-0.06732926
0.047936	0.01619	17.90828	13.19335	0.8947324	0.8065578	0.7192482	-0.08730967
0.001208	0.00158	28.02691	29.18039	0.7338185	0.8022565	0.7299026	-0.07235382
6.08E-05	0.01275	18.94398	42.16442	0.6535492	0.8143697	0.6273351	-0.1870346
2.28E-05	1.67E-05	47.78074	46.41211	0.8788711	0.7954364	0.8789448	0.08350844
5.68E-05	5.76E-06	52.39615	42.45468	0.7220204	0.8550987	0.6994683	-0.1556304
0.001143	8.47E-05	40.72121	29.41941	0.2710872	0.1223373	0.2257345	0.1033972
0.00465	0.00184	27.3551	23.32545	0.2206089	0.3003538	0.2392209	-0.06113293
0.00017	3.49E-06	54.5733	37.68641	0.1426296	0.0767954	0.1295268	0.05273132
0.000236	0.00012	39.19708	36.27064	0.6351579	0.7897847	0.6471369	-0.1426479
0.003605	0.0007	31.52615	24.43066	0.1996946	0.1150986	0.1677488	0.05265023
0.02079	0.02696	15.69226	16.82148	0.8815871	0.8308144	0.8881109	0.05729646
0.014836	0.00673	21.72061	18.28694	0.2640303	0.1461376	0.2436867	0.09754908
0.002782	0.00418	23.78402	25.55641	0.5814314	0.6575778	0.574548	-0.0830298
0.029088	0.0378	14.22453	15.36288	0.8753505	0.8159866	0.7364174	-0.07956918

0.032778	8.03E-06	50.95243	14.84415	0.1563995	0.5508856	0.6415359	0.09065028
3.91E-05	3.59E-05	44.45042	44.0794	0.8536765	0.7585732	0.8390288	0.08045562
0.043749	0.02647	15.77189	13.59033	0.5608327	0.3886851	0.5408752	0.1521901
0.045239	0.03463	14.60513	13.44483	0.1976008	0.116158	0.1889695	0.07281154
0.001155	0.00057	32.43586	29.37384	0.6396129	0.7126855	0.647817	-0.06486851
0.013959	0.00856	20.67505	18.55138	0.3671785	0.1984234	0.3424106	0.1439872
0.025582	0.02936	15.32273	15.9206	0.8929742	0.8344576	0.8940689	0.05961137
0.007204	0.01689	17.72363	21.4243	0.8911685	0.8080398	0.9051303	0.09709053
0.009883	0.01384	18.58872	20.05093	0.9059988	0.8037153	0.9095443	0.105829
0.001987	6.94E-06	51.58915	27.0178	0.1427819	0.300776	0.210308	-0.09046799
0.019333	0.03791	14.21196	17.13691	0.8697923	0.8048526	0.6995047	-0.1053479
0.037424	0.0389	14.10045	14.26847	0.1248684	0.2355484	0.3444361	0.1088877
0.025051	0.03489	14.57257	16.01172	0.8411935	0.6982037	0.8604159	0.1622122
0.015447	0.00346	24.61163	18.11148	0.8518625	0.5774313	0.6931043	0.115673
0.046149	0.00068	31.67551	13.35838	0.1109899	0.4141422	0.5189364	0.1047942
0.018254	0.00127	28.96853	17.38651	0.2104094	0.1240224	0.2039516	0.07992917
0.047231	1.00E-05	49.98688	13.2577	0.1236051	0.6424183	0.7311912	0.08877291
0.005323	0.00258	25.88266	22.73838	0.7936787	0.7171952	0.6499448	-0.06725041
0.049443	0.0019	27.21493	13.05898	0.8899872	0.826054	0.7495352	-0.07651882
0.011807	0.00501	23.00402	19.27846	0.8807297	0.8034681	0.8629683	0.05950022
0.009494	3.86E-06	54.13741	20.22532	0.0680704	0.2900889	0.4017624	0.1116735
0.03459	0.00246	26.09075	14.61054	0.1882903	0.3352072	0.4220235	0.08681626
0.007472	0.01434	18.43342	21.26577	0.8853183	0.8309191	0.6827261	-0.148193
0.006215	0.0255	15.93465	22.06584	0.64362	0.710597	0.6376145	-0.07298253
0.000123	0.00013	38.88882	39.08337	0.805185	0.8990869	0.8068374	-0.09224946
0.038372	0.02848	15.45396	14.15986	0.9046243	0.8037011	0.896281	0.09257987
0.000165	3.19E-05	44.96889	37.82782	0.2169587	0.0949361	0.1917098	0.09677368
0.015151	0.01361	18.66187	18.1957	0.8814113	0.8122944	0.8767146	0.06442022
0.004891	0.01485	18.28354	23.10625	0.7389719	0.7997375	0.7199724	-0.07976502
0.000284	0.00037	34.33309	35.47204	0.741164	0.8635787	0.7525667	-0.111012
0.040008	0.01527	18.16043	13.97848	0.8568751	0.7353753	0.8311548	0.09577952
0.028327	0.01998	16.99497	15.47805	0.4704152	0.3320177	0.4585089	0.1264912
0.004588	0.02617	15.82119	23.38412	0.503406	0.6003035	0.4560828	-0.1442206
0.026982	0.00588	22.30506	15.68922	0.8911936	0.6904845	0.576663	-0.1138214
0.021656	0.03603	14.43351	16.64418	0.6847208	0.7530872	0.677146	-0.07594117
0.044106	0.00083	30.79126	13.55504	0.8760256	0.5256895	0.4096632	-0.1160263
0.028589	0.01702	17.69051	15.43806	0.8249136	0.7389187	0.8104216	0.07150297
0.026889	0.00025	36.08418	15.70423	0.8157645	0.6045948	0.5186533	-0.08594149
0.020553	0.04472	13.49491	16.87134	0.6634039	0.737757	0.6442335	-0.09352357
0.020747	0.03473	14.59343	16.8304	0.6141074	0.6707001	0.606719	-0.06398116
0.046066	0.01582	18.00777	13.36624	0.8736926	0.7605795	0.843467	0.08288743
0.002161	0.00856	20.6754	26.65304	0.9360287	0.8649997	0.7516776	-0.113322
0.045338	0.00933	20.30215	13.43542	0.1048746	0.3828425	0.5301245	0.147282
0.004867	7.44E-05	41.28709	23.12781	0.0746675	0.5595112	0.7375225	0.1780112
3.10E-05	1.17E-06	59.33331	45.08524	0.7564207	0.8592251	0.7713971	-0.08782797
0.001408	0.02968	15.27588	28.51489	0.8302927	0.8819628	0.7830915	-0.09887123
0.043101	0.00986	20.06272	13.65515	0.8851638	0.7865475	0.8536514	0.06710394
0.000389	0.0136	18.66551	34.10244	0.7697567	0.8542616	0.7100668	-0.1441949
0.017088	0.04176	13.79256	17.67308	0.295403	0.3539748	0.279322	-0.07465284
0.009045	0.00645	21.90234	20.43572	0.7820812	0.8609667	0.7855608	-0.07540594
0.01674	0.0025	26.02325	17.76237	0.8214047	0.623281	0.7369957	0.1137147
1.34E-05	0.00244	26.13412	48.71288	0.7476215	0.8100902	0.7363585	-0.0737318
0.00073	0.00095	30.22594	31.36637	0.3801288	0.2852716	0.3733489	0.08807727
0.002625	0.01635	17.86445	25.8086	0.7007883	0.58819	0.4709741	-0.1172159

0.003105	0.00295	25.29686	25.07935	0.6597279	0.7835612	0.6616294	-0.1219318
6.45E-06	3.87E-05	44.12237	51.90194	0.470829	0.591737	0.4311994	-0.1605376
0.019889	0.04483	13.48423	17.0139	0.6972415	0.623705	0.696449	0.07274396
0.004946	0.00131	28.83502	23.05754	0.3596103	0.2939929	0.3567508	0.06275786
0.00572	0.00428	23.68829	22.42603	0.913142	0.9701388	0.9122245	-0.0579143
0.00922	1.37E-07	68.62244	20.35289	0.3681111	0.8006606	0.7186443	-0.08201628
0.000453	0.00062	32.04298	33.44138	0.4851257	0.6406496	0.5068123	-0.1338373
0.020573	1.42E-05	48.47463	16.86704	0.1678243	0.6499361	0.7658629	0.1159268
0.008518	4.60E-07	63.3745	20.69653	0.8311565	0.517961	0.4125694	-0.1053916
0.007964	0.00451	23.46098	20.98871	0.6312174	0.7091206	0.6383155	-0.07080512
9.07E-06	2.19E-06	56.58738	50.42445	0.552164	0.7599687	0.5549023	-0.2050665
0.049208	0.00018	37.40488	13.07965	0.1484409	0.6806458	0.7781816	0.09753578
0.027151	0.02287	16.40745	15.66218	0.367604	0.271827	0.3617988	0.08997184
0.036348	0.03341	14.7615	14.3952	0.4994541	0.7137535	0.5066043	-0.2071492
0.031863	0.00225	26.4702	14.9671	0.7948593	0.6486487	0.7252151	0.07656635
0.042156	0.01987	17.01707	13.75144	0.8944884	0.6715578	0.5142466	-0.1573112
0.009761	0.01304	18.84579	20.10522	0.4280431	0.5194281	0.428199	-0.09122904
0.000621	9.07E-05	40.42469	32.07093	0.6640263	0.8123582	0.7006736	-0.1116845
0.044335	0.0283	15.48265	13.53255	0.2600932	0.1566955	0.2424118	0.0857163
0.007335	0.01457	18.36613	21.34609	0.7550161	0.8628373	0.745396	-0.1174412
0.034906	0.00191	27.19695	14.57099	0.7931395	0.6200901	0.6942768	0.07418667
0.000168	3.57E-05	44.47425	37.75802	0.1768087	0.0843544	0.1649726	0.08061819
0.021204	0.02476	16.06331	16.73586	0.0681234	0.1508227	0.2316774	0.08085466
0.017809	0.03243	14.89095	17.49364	0.6696451	0.7414289	0.6569414	-0.08448742
0.038456	0.00942	20.25967	14.15038	0.9099289	0.7566295	0.6464596	-0.1101699
0.026343	0.01461	18.3532	15.79342	0.7888503	0.5603007	0.7583329	0.1980322
0.00736	0.01649	17.82765	21.33103	0.120006	0.0649603	0.1267505	0.06179027
0.040084	7.37E-05	41.32316	13.9703	0.7278877	0.43308	0.3448853	-0.08819471
0.009997	0.01528	18.15772	20.00151	0.6488956	0.723345	0.6482596	-0.07508537
0.011309	0.00923	20.34712	19.46579	0.7686496	0.854095	0.7848263	-0.06926867
0.000615	7.43E-05	41.28999	32.10938	0.7023109	0.589531	0.6738773	0.08434627
0.012546	0.04169	13.79935	19.01487	0.4264919	0.4790259	0.4065028	-0.07252304
0.017644	0.00183	27.37501	17.5341	0.1161159	0.4216933	0.5537418	0.1320485
0.003322	0.00749	21.25692	24.78583	0.4501083	0.6377499	0.4474644	-0.1902854
0.021386	0.00024	36.22004	16.69876	0.2001546	0.4621818	0.5515362	0.08935441
0.002415	0.00172	27.63671	26.17048	0.8699012	0.7360812	0.5841171	-0.1519641
0.010197	0.00332	24.79288	19.91535	0.0979303	0.3313933	0.4651858	0.1337925
0.013319	0.01234	19.08724	18.75517	0.8125356	0.6585922	0.4916434	-0.1669487
7.30E-05	4.87E-06	53.12841	41.36708	0.8289048	0.6267684	0.7622811	0.1355126
5.98E-06	2.70E-06	55.69028	52.23328	0.2504211	0.124336	0.2431222	0.1187862
0.00186	0.00159	27.97494	27.30387	0.7303187	0.8286634	0.7378778	-0.09078563
0.017288	0.01375	18.6155	17.62267	0.8922976	0.7727063	0.6742865	-0.09841981
0.047714	0.00816	20.88295	13.21358	0.8754739	0.7625667	0.6793445	-0.0832222
0.037136	0.00044	33.55403	14.30206	0.8611348	0.6973391	0.7664719	0.06913279
0.004767	5.54E-06	52.56141	23.21736	0.7310888	0.7897852	0.7382228	-0.0515624
0.004863	0.01642	17.84519	23.13053	0.2662007	0.3580647	0.2445124	-0.1135522
0.048646	0.02437	16.13163	13.12957	0.3122212	0.4181481	0.5020041	0.08385606
0.004849	0.01406	18.52079	23.14304	0.8119115	0.7528292	0.8238016	0.07097241
0.0066	0.00783	21.06292	21.80466	0.8845311	0.9412127	0.8901966	-0.05101598
0.001299	4.46E-07	63.50916	28.86547	0.8449846	0.5797373	0.463915	-0.1158223
0.001384	0.00248	26.04949	28.58792	0.8058776	0.8963931	0.8066883	-0.08970483
0.005702	0.03997	13.98254	22.43968	0.7105139	0.7675807	0.6780651	-0.08951565
0.002724	0.00103	29.86534	25.64827	0.1941877	0.1205392	0.1850086	0.06446943
0.041469	0.02946	15.30772	13.82273	0.356715	0.2746167	0.3471418	0.07252511

0.000138	0.00463	23.34611	38.613	0.8617575	0.9155523	0.8587901	-0.05676219
0.008541	0.00296	25.28578	20.68481	0.8599874	0.6125087	0.4686526	-0.143856
0.011499	0.0215	16.6756	19.39331	0.6595711	0.7444475	0.6459731	-0.09847447
0.023947	0.02891	15.38992	16.20743	0.9229861	0.8694515	0.9221548	0.05270332
0.000928	0.00726	21.39205	30.32231	0.7311274	0.80954	0.7020874	-0.1074526
0.027872	0.00037	34.34055	15.54837	0.8169404	0.6530554	0.7262197	0.07316426
0.029992	0.00982	20.07696	15.23002	0.158297	0.0758648	0.136999	0.06113425
0.018577	0.00027	35.65916	17.31026	0.0688854	0.3735463	0.4902154	0.1166691
0.003686	0.0002	36.97157	24.33466	0.6298953	0.7192928	0.6468961	-0.07239673
0.001588	0.00225	26.48058	27.99082	0.2614606	0.1184566	0.2566482	0.1381917
0.028694	0.00043	33.67926	15.42208	0.2050114	0.3560251	0.4745265	0.1185014
0.036273	0.02803	15.52358	14.40415	0.8752422	0.7955283	0.710525	-0.08500325
0.002366	0.00083	30.79911	26.26059	0.672576	0.5234737	0.6414385	0.1179648
0.000348	0.00271	25.6696	34.58317	0.6596674	0.7179466	0.6357555	-0.08219107
0.000455	1.14E-05	49.42509	33.42074	0.7738307	0.5998489	0.5096629	-0.09018603
0.001276	0.02196	16.5829	28.94101	0.4455145	0.5222015	0.4403495	-0.08185201
0.020636	0.02132	16.71199	16.85368	0.8804938	0.6294214	0.8755403	0.2461189
0.014219	0.04625	13.34923	18.47131	0.667057	0.5193775	0.7222521	0.2028746
0.023064	0.01523	18.17253	16.37069	0.8396261	0.7317888	0.8185812	0.08679239
0.015556	0.00554	22.5685	18.08093	0.7965853	0.7071723	0.7775579	0.07038556
0.006675	0.02537	15.95714	21.75538	0.7461131	0.8099236	0.7233453	-0.08657826
0.000121	0.00947	20.23508	39.18426	0.799058	0.8505692	0.7883443	-0.06222498
0.000159	0.00048	33.18846	37.98375	0.7109006	0.8378672	0.6987845	-0.1390827
0.046648	0.00117	29.31352	13.31164	0.7528499	0.52896	0.6251201	0.0961601
0.03078	0.0053	22.7613	15.11735	0.8516008	0.6971832	0.7958542	0.09867106
0.009916	0.00206	26.85916	20.03645	0.5137371	0.3268025	0.4156606	0.08885806
0.002665	0.0017	27.68312	25.74349	0.7193186	0.8312666	0.718756	-0.1125106
0.025428	0.00638	21.95378	15.94696	0.8165563	0.5729845	0.4375241	-0.1354604
0.00187	0.00578	22.37875	27.28272	0.5972862	0.7998067	0.5644591	-0.2353476
0.001969	3.04E-05	45.17205	27.05722	0.8835478	0.7861784	0.8415663	0.05538787
0.030705	0.0032	24.94298	15.12787	0.062528	0.1964207	0.2816252	0.08520453
0.015455	0.00055	32.62042	18.10931	0.7783985	0.5634943	0.6640955	0.1006013
0.007955	0.00664	21.77943	20.99353	0.2265186	0.128003	0.2209891	0.09298607
0.029531	0.00995	20.02062	15.29718	0.9650215	0.9126404	0.8262232	-0.08641724
0.009928	0.00151	28.20473	20.03129	0.1780893	0.0813421	0.148669	0.06732693
0.002754	0.00048	33.20044	25.60037	0.6141948	0.7375611	0.6243564	-0.1132047
0.013999	0.00875	20.58021	18.53913	0.5753135	0.7367296	0.5956037	-0.1411259
0.012693	0.0205	16.88142	18.96444	0.873355	0.9234523	0.8698556	-0.05359665
0.040537	0.04293	13.67235	13.92144	0.5937298	0.6626344	0.7285149	0.06588058
0.000937	0.00468	23.29846	30.28175	0.7689278	0.8743399	0.7403324	-0.1340075
0.029641	0.0044	23.56133	15.2811	0.1022242	0.246062	0.3311684	0.08510641
0.041935	0.00542	22.66006	13.7742	0.6367379	0.8122903	0.6672185	-0.1450718
0.007967	2.01E-08	76.96668	20.98706	0.7816398	0.4128219	0.3451702	-0.06765176
0.001657	8.52E-07	60.69459	27.80572	0.3158944	0.1468422	0.3512225	0.2043804
0.000722	0.00643	21.91719	31.41624	0.6515427	0.7306083	0.6179133	-0.112695
0.014301	0.00502	22.99671	18.44631	0.5381376	0.747108	0.5497873	-0.1973207
0.013019	0.00105	29.79647	18.85418	0.3934408	0.6470779	0.7746319	0.127554
0.04828	0.02701	15.68484	13.1623	0.825965	0.7631483	0.8175697	0.05442142
0.009738	0.00103	29.8634	20.11538	0.8099543	0.7009978	0.771217	0.07021922
1.79E-05	0.00015	38.2038	47.46713	0.288202	0.1631439	0.2914434	0.1282995
0.010818	0.04345	13.62052	19.65859	0.0905019	0.2393159	0.4402097	0.2008937
0.042296	0.00167	27.7773	13.73701	0.3043761	0.1317375	0.2454888	0.1137513
0.036832	0.0074	21.30661	14.33774	0.131512	0.2716545	0.1671875	-0.1044669
0.00632	0.0047	23.28265	21.99283	0.8642374	0.9230878	0.8712447	-0.0518432

0.042097	0.02435	16.13472	13.75747	0.6746998	0.7375033	0.6863019	-0.05120144
0.00232	0.02788	15.54653	26.34525	0.7212358	0.7943106	0.6674917	-0.1268188
0.004894	0.00251	26.01139	23.10334	0.5962626	0.7626989	0.6120349	-0.1506641
0.017037	0.00087	30.61957	17.68599	0.7842096	0.6018896	0.5077741	-0.09411546
0.001084	0.00228	26.42666	29.64962	0.6212668	0.741546	0.6306596	-0.1108864
0.016619	0.03845	14.15096	17.79383	0.5860513	0.6549028	0.5737844	-0.08111835
0.009208	0.00278	25.56719	20.35814	0.6679134	0.7749673	0.7081413	-0.06682596
0.021499	0.02218	16.53997	16.67581	0.8701524	0.937563	0.8751847	-0.06237833
0.041683	0.03999	13.9801	13.80038	0.8327082	0.6964853	0.565729	-0.1307562
4.01E-06	0.00021	36.73081	53.96622	0.7643117	0.8801607	0.7493852	-0.1307756
0.007557	0.02199	16.57764	21.21652	0.160773	0.1053295	0.1783445	0.07301496
0.045613	0.00084	30.76058	13.40909	0.534121	0.6497708	0.5860739	-0.06369693
0.009484	0.00516	22.87375	20.22995	0.8804883	0.9530528	0.9023582	-0.05069461
0.035808	0.02439	16.12851	14.46019	0.8424996	0.6669859	0.5223337	-0.1446521
0.023119	0.00672	21.72372	16.36035	0.8508263	0.7533333	0.8244551	0.07112177
0.001248	0.00131	28.83212	29.03809	0.6097149	0.69311	0.6126803	-0.08042971
0.000861	0.00114	29.41671	30.64874	0.1624723	0.054519	0.138047	0.08352806
0.00199	0.00032	34.9105	27.01118	0.6414741	0.7204489	0.6634558	-0.05699307
0.002748	0.00281	25.51762	25.60905	0.6118438	0.7097538	0.6205224	-0.0892313
0.019949	0.0077	21.13786	17.00078	0.8623484	0.9413818	0.8782695	-0.06311231
0.006841	4.29E-05	43.672	21.64853	0.8894502	0.7593682	0.6055759	-0.1537923
0.007254	1.00E-05	49.99854	21.39429	0.900486	0.8268995	0.7481	-0.07879949
0.032831	0.02452	16.10522	14.83715	0.759416	0.6667401	0.5813871	-0.08535297
0.024552	3.11E-05	45.06661	16.0992	0.7506322	0.9383186	0.886115	-0.05220354
0.045544	0.00338	24.71121	13.41568	0.8285783	0.5960498	0.4717045	-0.1243453
0.043044	0.02301	16.38158	13.66089	0.7146512	0.4819584	0.6609133	0.1789549
9.99E-05	0.00012	39.23222	40.00297	0.6366204	0.8177052	0.6556388	-0.1620663
0.00402	0.00442	23.54938	23.95824	0.688289	0.8505315	0.7125437	-0.1379878
0.012578	0.0037	24.31568	19.00405	0.8491092	0.7746025	0.8389535	0.06435101
0.027077	0.00691	21.60609	15.674	0.158548	0.3665392	0.455337	0.08879774
0.002406	0.00288	25.41234	26.18702	0.6181606	0.6751371	0.6171206	-0.05801645
0.0287	0.00257	25.90048	15.42118	0.1680678	0.2393067	0.3429945	0.1036878
0.005016	0.00132	28.7787	22.99647	0.8177692	0.7170708	0.7787663	0.06169556
0.017326	0.02274	16.43239	17.61292	0.8965348	0.7217148	0.5477617	-0.1739531
0.026446	0.00016	37.86417	15.77643	0.5416797	0.7442064	0.8058702	0.06166383
0.031006	0.00252	25.99462	15.08561	0.0574397	0.1827661	0.1279909	-0.05477515
0.03477	9.65E-05	40.15388	14.58797	0.4864634	0.789979	0.709843	-0.08013596
0.005619	0.00244	26.13206	22.50364	0.8497683	0.7116199	0.6157546	-0.09586523
0.009215	0.0014	28.53743	20.35524	0.7628998	0.6597536	0.7172628	0.05750913
0.028946	0.03675	14.34702	15.38416	0.5926825	0.6590545	0.589646	-0.06940847
0.037112	0.03146	15.02306	14.30485	0.8454302	0.7526207	0.8400394	0.08741873
0.015828	0.01699	17.69902	18.00568	0.1462015	0.090611	0.1439642	0.0533532
0.000238	8.23E-05	40.84426	36.2258	0.1539137	0.0751303	0.1451892	0.07005881
0.027125	0.00083	30.80935	15.66634	0.7417246	0.5837691	0.672271	0.08850189
0.017011	1.70E-06	57.70387	17.69282	0.8704328	0.700115	0.604252	-0.09586295
0.030394	0.00022	36.58083	15.17208	0.2066572	0.3301387	0.4291056	0.09896685
0.007642	0.00334	24.76713	21.16765	0.2193474	0.1198194	0.2011499	0.08133054
0.032744	0.04075	13.89849	14.84863	0.7290351	0.8188575	0.7240021	-0.09485538
0.003782	4.49E-05	43.47476	24.22243	0.7391111	0.5156361	0.6263891	0.1107531
0.00773	0.01201	19.20338	21.11804	0.7531065	0.823533	0.7483203	-0.07521264
0.030044	0.00682	21.65966	15.22241	0.8569579	0.7750056	0.6954427	-0.07956292
0.002952	0.00457	23.4019	25.29952	0.182181	0.1193297	0.1812607	0.06193099
0.006736	0.00271	25.66364	21.71627	0.8769559	0.7951037	0.6912712	-0.1038326
0.012625	0.00165	27.83338	18.9878	0.7563918	0.6729106	0.7251308	0.05222025

0.002506	0.0079	21.02185	26.00991	0.8315585	0.8990545	0.8139356	-0.0851189
0.028943	0.00222	26.53249	15.38459	0.7456822	0.8636859	0.8019887	-0.06169723
2.68E-05	1.42E-05	48.46213	45.71648	0.7814022	0.8866362	0.7954769	-0.09115931
0.007056	0.00944	20.25239	21.51419	0.7262486	0.7954073	0.8697003	0.07429305
0.000942	1.45E-05	48.39233	30.25821	0.8704602	0.689453	0.7876168	0.09816385
0.02949	0.03093	15.09615	15.30332	0.5909896	0.6767686	0.5851451	-0.09162357
0.011025	0.01264	18.98084	19.57603	0.7464145	0.6259161	0.5735975	-0.0523186
0.019093	0.01233	19.09012	17.19127	0.8651267	0.8062134	0.8593559	0.05314258
0.008089	0.00037	34.355	20.9211	0.4701718	0.3279233	0.4087794	0.08085608
0.006399	0.00354	24.50961	21.93896	0.8384849	0.7091269	0.8139335	0.1048065
0.00857	9.94E-05	40.02428	20.66999	0.1885587	0.1090954	0.2028615	0.09376614
0.037858	0.04321	13.64455	14.21847	0.8258687	0.6852968	0.5488744	-0.1364224
0.000151	0.00039	34.06941	38.19683	0.5522392	0.6431424	0.5493901	-0.09375232
0.004336	0.0045	23.46782	23.62865	0.7887523	0.906339	0.7947018	-0.1116373
0.016045	0.02275	16.43042	17.94665	0.5938473	0.7360032	0.5779605	-0.1580427
0.000194	0.00015	38.26304	37.12409	0.1036061	0.0448755	0.0964511	0.05157561
0.033109	0.03966	14.01697	14.80049	0.8728436	0.8064312	0.8770861	0.07065493
0.001387	0.00138	28.59432	28.57914	0.205685	0.0910209	0.2003586	0.1093377
0.009192	0.04107	13.8645	20.3659	0.5652437	0.6515514	0.5156984	-0.135853
0.03924	0.0134	18.72822	14.06272	0.8197276	0.877928	0.8269662	-0.05096173
0.048026	0.00043	33.65659	13.18521	0.5520079	0.818855	0.880648	0.06179291
0.041932	0.02985	15.2501	13.77455	0.5871537	0.6853284	0.7747223	0.08939382
0.008291	0.00018	37.48011	20.81372	0.2330402	0.5868301	0.4511474	-0.1356827
0.024281	0.02144	16.68674	16.14735	0.2042386	0.1199156	0.1973254	0.07740982
0.036675	0.00252	25.99115	14.35627	0.8449284	0.7430529	0.6690896	-0.07396328
0.018139	0.01807	17.42983	17.41393	0.7740462	0.8641407	0.7774486	-0.08669206
0.043372	0.00991	20.03787	13.62786	0.8338014	0.656473	0.5283557	-0.1281173
0.005257	0.00333	24.7742	22.79272	0.7024156	0.8271363	0.6959971	-0.1311392
0.001438	9.01E-05	40.45122	28.42251	0.5572214	0.4275827	0.5104152	0.08283243
0.00694	0.00124	29.07125	21.58665	0.4933652	0.543878	0.4529396	-0.09093834
0.008207	0.01148	19.39966	20.85803	0.6740659	0.8592595	0.6804672	-0.1787923
0.000429	0.00053	32.74638	33.6781	0.8037171	0.9170104	0.80007	-0.1169404
0.007034	0.00225	26.485	21.52781	0.1657128	0.2868265	0.1782722	-0.1085543
0.002237	0.00012	39.25793	26.50259	0.329699	0.211982	0.2951917	0.08320969
0.030191	0.01287	18.90506	15.20116	0.8523248	0.7622717	0.6841261	-0.0781456
0.001881	0.00527	22.78182	27.2571	0.633018	0.6934785	0.6202948	-0.07318364
7.01E-05	0.00024	36.20938	41.54333	0.4663549	0.5926676	0.4287383	-0.1639293
0.007061	0.00792	21.01411	21.51103	0.5031497	0.3615	0.4901949	0.1286949
0.030261	0.01104	19.57174	15.1912	0.7436133	0.5845451	0.7023644	0.1178193
0.009345	0.00068	31.70411	20.29412	0.8715723	0.690092	0.7801934	0.09010141
0.041694	0.00889	20.51117	13.79927	0.031388	0.2049139	0.3359781	0.1310642
0.002779	0.00584	22.3344	25.56143	0.5924805	0.6597426	0.5792106	-0.08053199
0.046288	0.03525	14.52838	13.34531	0.2454349	0.3033336	0.3890514	0.08571783
0.016661	0.02113	16.75174	17.78307	0.7754819	0.8314777	0.7658875	-0.06559021
0.001423	0.00749	21.25466	28.46654	0.5931656	0.6480526	0.570668	-0.0773845
0.035852	0.01276	18.94088	14.45483	0.9094914	0.8009657	0.8715367	0.07057098
9.84E-05	0.00625	22.04106	40.06828	0.5565529	0.643298	0.4823879	-0.1609101
0.00079	0.00047	33.27962	31.02174	0.5874597	0.6838046	0.5843242	-0.09948039
0.01364	0.00375	24.26479	18.65197	0.8719349	0.789096	0.8512832	0.06218722
0.009323	2.40E-05	46.19846	20.30464	0.9206604	0.7642505	0.5827929	-0.1814576
0.025719	0.03383	14.70675	15.89739	0.9504998	0.8776103	0.8049554	-0.07265494
0.000412	0.00083	30.82322	33.84614	0.5658547	0.7151155	0.5580054	-0.1571101
0.003051	0.04489	13.47855	25.15616	0.6500576	0.5576077	0.6773461	0.1197385
0.01232	0.01106	19.56225	19.09393	0.8886309	0.7923846	0.8758749	0.0834903

0.040168	0.0217	16.63445	13.96125	0.857955	0.6530734	0.8124697	0.1593964
0.019717	0.01346	18.71034	17.05166	0.8358929	0.7576439	0.830412	0.07276816
0.048711	0.01004	19.98309	13.12369	0.7330453	0.5565474	0.6693175	0.1127701
0.023529	0.01369	18.63496	16.28391	0.8196586	0.735298	0.8185534	0.08325534
0.00089	9.52E-06	50.21566	30.50751	0.7410129	0.9110062	0.7844757	-0.1265304
0.048955	3.56E-05	44.47959	13.102	0.3283449	0.6062583	0.6700924	0.06383414
0.000194	0.00018	37.46803	37.12819	0.8289966	0.9018558	0.831778	-0.07007778
0.01278	0.04168	13.8003	18.93472	0.9440619	0.8082484	0.6159617	-0.1922867
0.02164	1.20E-06	59.22308	16.64735	0.3220226	0.7216723	0.6148942	-0.1067782
0.049357	4.31E-05	43.65504	13.06653	0.2226775	0.6487648	0.5482624	-0.1005025
0.037705	0.00371	24.30249	14.23597	0.3901559	0.5889269	0.6771362	0.08820935
0.034374	0.0051	22.92567	14.63767	0.8996783	0.8104766	0.8642212	0.05374457
0.002046	0.0247	16.07271	26.89127	0.7905371	0.841371	0.7521985	-0.08917254
0.006251	0.01679	17.7503	22.04025	0.7576213	0.8268764	0.7413703	-0.08550614
0.001438	0.00031	35.10775	28.42355	0.896423	0.8202798	0.8791719	0.05889215
0.018099	0.0023	26.38398	17.4234	0.2501737	0.1850938	0.2539082	0.06881438
0.025824	0.03478	14.58674	15.87985	0.8887786	0.7892134	0.6785676	-0.1106458
0.009324	0.01352	18.69084	20.30414	0.8275126	0.7756077	0.8302372	0.05462953
0.0029	0.00453	23.43769	25.37574	0.5734509	0.6328675	0.5678676	-0.06499985
0.010454	0.00419	23.77452	19.80735	0.8028796	0.6791279	0.7768159	0.09768799
0.045489	0.00744	21.28583	13.42097	0.8554358	0.6976516	0.6020337	-0.09561797
0.011869	0.02019	16.94831	19.25578	0.7907197	0.7194129	0.6161016	-0.1033114
0.041398	0.01382	18.59524	13.83019	0.8525867	0.7598916	0.8259917	0.06610009
0.041942	0.00835	20.78284	13.77351	0.1820447	0.5341095	0.7378375	0.2037279
0.03557	0.00961	20.17364	14.4892	0.8224859	0.6627861	0.7655627	0.1027765
0.033818	0.00316	25.00333	14.7085	0.8085178	0.6733417	0.7450231	0.07168141
1.22E-05	7.39E-09	81.31154	49.14554	0.190262	0.1113506	0.1764432	0.06509264
0.000468	0.00799	20.97635	33.30076	0.6288593	0.4873967	0.6035444	0.1161477
0.009591	0.02726	15.64524	20.18131	0.0354508	0.1612239	0.3195375	0.1583136
0.008764	0.0054	22.67241	20.57284	0.2601607	0.1295912	0.2344213	0.1048301
0.009321	0.0072	21.42901	20.30545	0.7150398	0.856469	0.7305454	-0.1259235
0.003097	9.06E-07	60.43099	25.09033	0.4810147	0.8053578	0.8592325	0.05387477
0.011247	0.00261	25.83126	19.48969	0.0805932	0.3324633	0.4625035	0.1300402
0.028986	0.02305	16.37326	15.37811	0.8344669	0.7228169	0.6040524	-0.1187644
0.004446	0.01013	19.94265	23.52001	0.5013741	0.5860471	0.4877808	-0.09826625
0.000546	0.0167	17.77207	32.62804	0.8297822	0.9103615	0.789188	-0.1211735
0.013619	0.00475	23.23104	18.65852	0.767863	0.6712729	0.7481758	0.07690287
0.000691	0.00094	30.25756	31.60439	0.8022661	0.8926536	0.8194443	-0.07320928
0.004916	0.00494	23.06197	23.08353	0.7579224	0.6647469	0.5819381	-0.08280876
0.032486	0.0236	16.2702	14.88309	0.6970652	0.8000234	0.7094774	-0.09054597
0.017093	0.01942	17.11664	17.67179	0.850771	0.7882696	0.8530046	0.06473493
0.004258	0.00112	29.49212	23.70788	0.0586365	0.2471841	0.3543673	0.1071832
0.000954	0.00016	37.93583	30.20532	0.5542882	0.4367748	0.5428823	0.1061075
0.000435	0.00014	38.47836	33.61226	0.2140644	0.1327357	0.2172129	0.08447712
0.016573	0.04574	13.39692	17.80601	0.1357669	0.2686277	0.4440404	0.1754127
0.012674	0.0395	14.03404	18.97084	0.9364621	0.8688987	0.7742338	-0.09466501
0.001141	0.00103	29.85762	29.42904	0.6371519	0.6950632	0.6378652	-0.05719798
0.00686	0.00874	20.58366	21.63688	0.9088799	0.9592912	0.9055636	-0.05372758
0.040154	0.00601	22.20912	13.96274	0.7177998	0.3693651	0.546037	0.1766719
0.009011	0.01465	18.34083	20.45203	0.6490831	0.7576906	0.6357588	-0.1219318
0.011668	0.00581	22.3565	19.32993	0.8343073	0.7752678	0.8271204	0.05185253
0.014145	0.0082	20.8612	18.49395	0.3817793	0.3104719	0.3669505	0.05647863
0.018844	0.00995	20.02376	17.24834	0.7337478	0.8393252	0.7564135	-0.08291171
0.001378	0.00854	20.68522	28.60606	0.7886426	0.879404	0.760982	-0.1184219



0.049372	0.04764	13.22023	13.06519	0.7182896	0.795391	0.7203969	-0.07499411
0.004466	0.00717	21.44385	23.50057	0.5437725	0.6698834	0.5461679	-0.1237155
0.00015	0.00028	35.59735	38.23788	0.5714481	0.682722	0.5739013	-0.1088207
0.005303	0.00232	26.33613	22.75502	0.6252899	0.7297907	0.6206999	-0.1090908
0.026773	0.0387	14.12281	15.72309	0.8517925	0.9066516	0.8458021	-0.06084949
0.040611	0.00049	33.12115	13.91351	0.8770149	0.7669639	0.7105975	-0.05636644
0.032837	0.00436	23.60484	14.83638	0.0449546	0.1510413	0.0899595	-0.06108183
0.002476	0.0046	23.37673	26.06297	0.8698592	0.9313864	0.8617097	-0.0696767
0.000428	0.00119	29.241	33.68472	0.722041	0.8271646	0.7076758	-0.1194888
0.039575	0.04291	13.67447	14.02581	0.5462129	0.6154383	0.5444783	-0.07095999
0.014887	0.00126	28.99967	18.27184	0.8931734	0.7416462	0.8083014	0.0666552
0.011753	0.00756	21.2175	19.29843	0.365805	0.2568432	0.3464559	0.08961274
0.003437	0.005	23.00794	24.63864	0.6912034	0.8334128	0.6938607	-0.1395521
0.000123	0.00296	25.28068	39.08648	0.7866414	0.8463464	0.7438731	-0.1024733
0.013173	2.78E-05	45.56231	18.80329	0.866374	0.7120373	0.6034023	-0.1086351
0.00653	0.00559	22.52456	21.85086	0.0624017	0.187548	0.3243495	0.1368015
1.87E-05	4.76E-05	43.2221	47.27287	0.1505728	0.0507797	0.1425522	0.09177246
0.008936	0.00147	28.32099	20.48855	0.1117914	0.4974326	0.6748976	0.177465
0.00248	0.00137	28.63129	26.0556	0.1617543	0.0972509	0.1553034	0.05805252
0.029041	0.00146	28.35748	15.36982	0.7886613	0.4946618	0.3728405	-0.1218213
0.00422	0.00119	29.24061	23.74715	0.2314763	0.1352845	0.2194011	0.08411655
0.045901	0.00048	33.18102	13.38179	0.7144324	0.5861015	0.6374792	0.05137771
0.045453	0.01269	18.96591	13.42433	0.7730988	0.5588037	0.4300809	-0.1287228
0.033923	0.00326	24.86554	14.6951	0.8642005	0.7478771	0.6551145	-0.09276253
0.002725	0.0003	35.1727	25.64562	0.7375733	0.6073766	0.4711386	-0.136238
0.030743	0.01925	17.15527	15.1225	0.0789953	0.1521349	0.0880551	-0.06407973
0.047187	0.01637	17.85929	13.26175	0.7537715	0.6010033	0.7168197	0.1158164
0.030509	0.01171	19.31385	15.15574	0.8938704	0.727824	0.6148168	-0.1130071
0.001456	3.22E-05	44.92554	28.36802	0.172103	0.3903337	0.5120771	0.1217434
0.000464	0.00043	33.71524	33.33589	0.8357319	0.7469023	0.8344039	0.08750159
0.001474	0.00163	27.87377	28.31649	0.6280789	0.8020883	0.6298797	-0.1722087
0.037857	0.02573	15.89553	14.21855	0.880895	0.7801866	0.8645805	0.0843939
0.000766	0.00118	29.28876	31.16002	0.8199198	0.9154067	0.823554	-0.09185264
0.001005	0.00047	33.25233	29.97771	0.1542128	0.0786314	0.1481758	0.06954448
6.21E-05	0.00052	32.87217	42.0691	0.6996977	0.7955154	0.6848335	-0.1106818
0.020511	0.03086	15.10671	16.8802	0.1098428	0.1618495	0.2227555	0.06090599
0.000346	0.01069	19.70831	34.61504	0.6235453	0.6826978	0.5700605	-0.1126373
0.011598	0.03559	14.48707	19.35631	0.4489586	0.5814632	0.6945587	0.1130956
0.004429	0.0056	22.52118	23.53718	0.5757268	0.749204	0.5942518	-0.1549522
0.017694	0.0009	30.4514	17.52179	0.7832069	0.7063988	0.6437463	-0.0626526
0.003206	0.00316	25.00565	24.94055	0.8201757	0.7573822	0.8221592	0.06477703
0.011181	0.01929	17.14568	19.51504	0.8577018	0.7785259	0.6737747	-0.1047513
0.000329	0.03066	15.13451	34.82312	0.1568087	0.0543301	0.2224854	0.1681553
0.00227	0.00202	26.93804	26.43937	0.1752692	0.1041871	0.1643796	0.06019256
0.001321	0.00151	28.21097	28.79043	0.5290049	0.6866347	0.5713268	-0.1153079
0.00414	0.00101	29.95057	23.83012	0.882532	0.803957	0.8644212	0.06046423
0.000593	0.00085	30.70175	32.27003	0.7959347	0.899237	0.8032863	-0.09595073
0.017143	0.04879	13.11627	17.65906	0.5928397	0.6733834	0.7566271	0.08324366
0.019559	0.01038	19.83831	17.08659	0.7306849	0.6140648	0.713835	0.09977021
0.023513	0.03474	14.59223	16.28697	0.6278682	0.5001084	0.6344013	0.1342928
0.001884	0.003	25.22866	27.24814	0.6792669	0.8028813	0.6712114	-0.1316699
0.009402	0.00792	21.01308	20.26779	0.1683096	0.0930541	0.1612918	0.06823771
5.91E-05	0.00043	33.68068	42.28085	0.4725602	0.5672853	0.4931706	-0.07411474
0.008601	0.01632	17.87257	20.6544	0.509437	0.5822255	0.4974823	-0.08474323

0.031384	0.01013	19.94334	15.03297	0.8550269	0.7359792	0.6188908	-0.1170884
0.001242	0.00171	27.66987	29.05808	0.139498	0.0755953	0.1341693	0.05857399
0.044371	0.01872	17.27801	13.52903	0.8700795	0.7807305	0.852213	0.07148245
0.022916	0.01228	19.10842	16.39857	0.1947308	0.1173251	0.1805704	0.06324528
0.003075	0.00339	24.70199	25.12156	0.6873782	0.8466426	0.6685981	-0.1780445
0.000204	0.00723	21.40783	36.90859	0.7148356	0.7719283	0.7139275	-0.05800075
0.027129	0.00093	30.32262	15.66568	0.8626777	0.7211069	0.6599348	-0.06117214
0.00257	0.00476	23.22358	25.90135	0.6734009	0.7833668	0.6482143	-0.1351525
0.012776	0.00549	22.60674	18.93595	0.9062973	0.8130928	0.6849958	-0.1280969
0.036151	0.01321	18.78985	14.41879	0.8730006	0.7557852	0.8363128	0.08052766
0.045958	0.02246	16.48656	13.37634	0.316905	0.2008311	0.2977363	0.09690522
0.000576	0.00047	33.26939	32.39249	0.8732148	0.9344078	0.8744096	-0.0599982
0.003677	0.03562	14.48262	24.34496	0.7769376	0.8548532	0.7284108	-0.1264424
0.020481	2.21E-05	46.55336	16.88644	0.6561537	0.4376625	0.5147106	0.07704808
0.028543	0.04383	13.58216	15.44507	0.8101389	0.7482902	0.8185056	0.07021544
0.004473	0.02608	15.83632	23.49421	0.9266946	0.8111085	0.6451558	-0.1659526
0.033382	0.02165	16.64608	14.76483	0.1631697	0.2398435	0.1710106	-0.06883292
0.043181	0.03293	14.82393	13.64709	0.2138964	0.1622127	0.2227535	0.06054081
0.001811	0.00972	20.12346	27.42139	0.6683102	0.728209	0.6337933	-0.0944157
0.00022	0.00021	36.67915	36.58178	0.7463101	0.8541424	0.7552121	-0.09893027
0.007082	0.01184	19.26734	21.49866	0.5779325	0.725052	0.5820212	-0.1430308
0.014282	0.00284	25.46419	18.45198	0.7173075	0.4888834	0.6183423	0.1294589
0.002758	0.00437	23.59379	25.59337	0.3147046	0.223208	0.3319092	0.1087012
0.002168	5.36E-05	42.71228	26.6387	0.2591997	0.1101223	0.1990925	0.08897028
0.028139	0.01264	18.98311	15.50684	0.3329212	0.4154418	0.4847357	0.06929386
0.007849	0.04115	13.85642	21.05163	0.6444077	0.5754442	0.6979262	0.1224821
0.021449	0.01435	18.43098	16.6859	0.5500332	0.7749467	0.5954106	-0.1795361
0.042077	0.0352	14.53477	13.75958	0.3466847	0.1950975	0.3350655	0.139968
0.001613	0.00462	23.3508	27.92328	0.7303043	0.7985224	0.7180544	-0.08046789
0.016155	0.00257	25.90594	17.91684	0.7577644	0.6061461	0.7059509	0.09980484
0.014398	0.00181	27.42406	18.41697	0.8494969	0.494155	0.3189275	-0.1752275
0.008911	0.00125	29.01703	20.5007	0.8689209	0.5843161	0.7403042	0.1559881
0.027457	1.11E-06	59.55698	15.61346	0.2080222	0.6607265	0.5897582	-0.07096843
0.005208	0.01448	18.39364	22.83335	0.8829596	0.7563693	0.6159738	-0.1403955
0.044837	0.02709	15.67168	13.48367	0.8719958	0.9354231	0.8828092	-0.05261382
0.029904	0.01385	18.58511	15.24274	0.8339473	0.6975422	0.8013824	0.1038402
0.005703	0.00034	34.64162	22.43928	0.1073291	0.2154401	0.1508452	-0.06459487
0.018639	0.00011	39.51414	17.2957	0.7739893	0.9163318	0.8637741	-0.05255765
0.011406	0.00735	21.33723	19.42878	0.8138803	0.5695046	0.7753506	0.2058461
0.043722	8.30E-06	50.80795	13.59298	0.1205853	0.3546567	0.4465964	0.09193971
0.02446	0.00012	39.07684	16.11551	0.191434	0.6129954	0.7515141	0.1385187
0.036793	0.00064	31.9552	14.34239	0.7106895	0.5527033	0.4815634	-0.0711399
0.009282	0.01119	19.51044	20.32364	0.8337174	0.9166765	0.8243473	-0.09232929
0.001894	0.00494	23.05892	27.22678	0.1595913	0.1077116	0.165781	0.05806944
1.52E-05	1.15E-05	49.40567	48.18107	0.5804167	0.6541066	0.577906	-0.07620066
0.031422	0.04085	13.88784	15.02768	0.4861392	0.6098911	0.473823	-0.1360681
0.001846	0.00058	32.3433	27.33754	0.8828817	0.7875064	0.85545	0.06794354
0.016682	0.03984	13.99679	17.77764	0.8587945	0.7746692	0.6716723	-0.1029968
0.000754	0.00144	28.42305	31.22895	0.1555075	0.0937061	0.1578137	0.06410765
0.043491	0.00462	23.3569	13.61604	0.8111725	0.6920633	0.7451289	0.05306552
0.001117	0.00345	24.61869	29.51927	0.476938	0.6351793	0.4777702	-0.1574092
0.007045	0.00831	20.80581	21.52096	0.1939618	0.1127235	0.1856853	0.0729618
0.002017	0.00017	37.80342	26.95294	0.810858	0.5648165	0.698473	0.1336565
0.000871	0.00067	31.74782	30.60176	0.3586842	0.1800624	0.3486142	0.1685518

0.027582	0.0099	20.0448	15.59375	0.2480915	0.1466695	0.2240669	0.07739745
0.046546	0.04185	13.7833	13.32116	0.4763682	0.3856676	0.4744254	0.08875781
0.029204	0.01417	18.48616	15.34552	0.8452371	0.9214606	0.8594686	-0.06199202
0.019836	0.01611	17.93029	17.02544	0.67026	0.7640889	0.6717885	-0.09230035
0.042309	0.04298	13.66773	13.73571	0.0603942	0.1681765	0.0613363	-0.1068403
0.005584	4.91E-06	53.08783	22.53081	0.0777862	0.2251706	0.3086862	0.08351559
0.030253	0.03664	14.36014	15.19226	0.4964705	0.6040007	0.4942053	-0.1097954
0.000119	3.76E-05	44.24894	39.22984	0.1952814	0.0765381	0.1745217	0.09798369
0.031793	0.0002	36.93317	14.97663	0.7430183	0.8274316	0.7231788	-0.1042527
0.004354	0.00581	22.35679	23.61112	0.7996252	0.7436312	0.7997028	0.05607168
3.35E-05	6.28E-06	52.02007	44.74893	0.2631342	0.083923	0.2293458	0.1454228
0.043701	0.04303	13.66182	13.59508	0.214682	0.1528336	0.21313	0.0602964
0.00779	1.70E-06	57.69812	21.08477	0.9129474	0.8138788	0.7154887	-0.09839011
0.028546	0.01574	18.03107	15.44448	0.6439108	0.8015108	0.6643137	-0.1371971
0.00148	0.00662	21.79155	28.29821	0.6579166	0.7348347	0.6443158	-0.09051889
0.048602	0.01579	18.01543	13.13346	0.7582825	0.6857907	0.6132776	-0.07251307
0.000659	0.0002	37.06179	31.81053	0.3804624	0.3096556	0.3695597	0.05990408
0.044305	0.00907	20.4246	13.53543	0.7666777	0.6542339	0.7291552	0.07492138
0.01383	0.00251	25.99586	18.59175	0.8995885	0.8356426	0.757201	-0.07844159
0.04046	0.00023	36.33024	13.92976	0.3278904	0.5295589	0.6085883	0.07902939
0.000284	0.01555	18.08385	35.47339	0.7958539	0.7265579	0.6035534	-0.1230044
0.047416	2.11E-05	46.75702	13.24075	0.2428723	0.5076818	0.579995	0.07231322
0.000318	2.06E-06	56.85098	34.97613	0.2316326	0.138255	0.2015796	0.0633246
0.000131	0.00012	39.09566	38.82887	0.5217412	0.6584459	0.5448311	-0.1136148
0.01701	0.00145	28.38117	17.69286	0.0902553	0.283836	0.3780276	0.09419155
0.007676	0.00072	31.45123	21.1485	0.1943824	0.1363793	0.1865403	0.05016104
0.020016	0.00125	29.02739	16.98618	0.0713449	0.3221411	0.4379917	0.1158506
0.013621	0.02574	15.89446	18.6579	0.6563926	0.7668685	0.6438824	-0.1229862
0.022719	0.03992	13.98833	16.43601	0.7547052	0.6826706	0.7696766	0.08700595
7.50E-05	4.30E-06	53.66611	41.24923	0.769192	0.9041756	0.7871981	-0.1169776
0.021052	0.00933	20.30242	16.76706	0.127581	0.2673024	0.3715234	0.104221
1.09E-05	1.15E-06	59.40627	49.63355	0.2526436	0.1362845	0.2362291	0.09994458
0.006317	0.01086	19.64058	21.99516	0.637157	0.7351025	0.6339009	-0.1012016
0.024232	0.02023	16.94038	16.1561	0.7848234	0.7165964	0.7787423	0.06214597
2.05E-05	4.92E-07	63.07608	46.88175	0.1674577	0.0850532	0.1456423	0.0605891
0.007296	0.04249	13.71725	21.36889	0.2497966	0.121213	0.300039	0.1788259
0.008832	0.0222	16.53571	20.53918	0.8549728	0.9056505	0.8357006	-0.06994994
0.018209	0.00273	25.64556	17.39708	0.8136249	0.6723433	0.553913	-0.1184303
0.019455	0.00023	36.39343	17.10974	0.0914574	0.32084	0.4053075	0.08446749
0.002326	0.01397	18.54843	26.33313	0.8125805	0.6684508	0.479149	-0.1893019
0.0283	0.02081	16.81711	15.48219	0.8828655	0.7807498	0.870452	0.08970217
0.022487	0.00818	20.87095	16.48064	0.3234482	0.1656642	0.2750052	0.109341
0.035559	0.03337	14.76673	14.49053	0.1036346	0.2371148	0.1112641	-0.1258506
0.000358	0.00018	37.37651	34.45533	0.8365114	0.9069931	0.8414438	-0.0655493
0.0005	0.00052	32.8797	33.01425	0.2424331	0.1639784	0.2311132	0.06713472
0.00606	0.0038	24.20233	22.17525	0.0592205	0.1664095	0.0865846	-0.07982489
0.021048	0.00098	30.10302	16.76788	0.8467552	0.770273	0.8225922	0.05231915
0.0222	0.0145	18.38582	16.53655	0.7706843	0.5999931	0.7120935	0.1121004
0.008824	0.01193	19.23336	20.54321	0.2065975	0.1331811	0.206407	0.07322592
0.045004	0.00019	37.2825	13.46753	0.8486821	0.6996973	0.6483408	-0.05135652
0.046059	0.00852	20.69626	13.36688	0.9288324	0.8250349	0.694225	-0.1308099
0.002158	0.00088	30.56223	26.66011	0.7899936	0.8830683	0.8070313	-0.07603705
0.033834	0.00836	20.77636	14.7065	0.1687285	0.3102382	0.2163459	-0.09389223
0.034501	0.00692	21.5986	14.6217	0.8166103	0.6206031	0.7414492	0.1208461

0.00512	0.00502	22.99369	22.90766	0.810671	0.8984221	0.8128549	-0.08556724
0.049925	0.02773	15.57052	13.01685	0.0436671	0.1229547	0.2174656	0.09451089
0.006141	0.01509	18.21173	22.11751	0.5674991	0.6205666	0.5578913	-0.06267534
0.039875	0.00327	24.85534	13.99302	0.7817743	0.6143669	0.6645328	0.05016582
0.035574	0.03395	14.69113	14.48864	0.8904129	0.8238855	0.8902974	0.06641194
0.00028	0.00063	32.02826	35.53539	0.8288553	0.9487292	0.8540103	-0.09471882
0.01845	0.00146	28.36156	17.34015	0.7963549	0.5990278	0.4875137	-0.111514
0.000166	0.00223	26.51002	37.78643	0.766116	0.8342987	0.7061822	-0.1281166
0.001207	0.01058	19.7549	29.18155	0.8901365	0.8222816	0.7301336	-0.09214801
0.011995	0.00564	22.48338	19.21017	0.7736322	0.7013168	0.7624629	0.0611461
0.01102	0.00572	22.42537	19.57821	0.1273119	0.2670696	0.1553082	-0.1117614
0.02209	0.04334	13.63146	16.558	0.8132673	0.7332186	0.8347412	0.1015226
0.001132	0.00129	28.90846	29.46173	0.7896066	0.8740761	0.7589797	-0.1150964
0.000813	5.51E-05	42.58575	30.8996	0.2212827	0.097883	0.1866916	0.08880863
0.003879	0.0006	32.21466	24.11246	0.4676896	0.5358005	0.4609134	-0.07488709
0.001305	0.00775	21.10423	28.84266	0.6097003	0.6710963	0.5784431	-0.09265324
0.034425	0.00634	21.97929	14.63122	0.0218936	0.1857552	0.2777731	0.09201792
0.009715	7.57E-05	41.21029	20.12536	0.3320849	0.6046024	0.7275549	0.1229525
0.002887	0.00077	31.14031	25.39608	0.177424	0.0693332	0.1406383	0.07130515
0.02058	0.01252	19.0238	16.86557	0.034293	0.1245991	0.054759	-0.06984012
0.046913	0.00035	34.6039	13.28707	0.385733	0.2569092	0.3487446	0.09183537
0.000243	2.12E-05	46.73291	36.13862	0.8097586	0.9218799	0.828676	-0.09320386
0.02264	0.00357	24.47663	16.45115	0.1282019	0.2984082	0.4142438	0.1158357
0.012528	0.00046	33.38612	19.0213	0.1416109	0.3290431	0.4290125	0.09996939
0.016993	0.01706	17.68066	17.69737	0.6708313	0.7793943	0.6765177	-0.1028767
0.000608	4.52E-08	73.45325	32.15984	0.8090985	0.9197282	0.8209817	-0.09874641
0.014541	0.01395	18.55375	18.37415	0.5075207	0.4408435	0.5013235	0.06048005
0.02769	0.01871	17.27893	15.57671	0.5822169	0.7232131	0.5894895	-0.1337236
0.019168	0.00469	23.28823	17.17419	0.1236992	0.0179593	0.0972486	0.07928938
0.011405	0.0084	20.75759	19.42905	0.795678	0.5280383	0.7600408	0.2320026
0.040073	0.03608	14.42695	13.97145	0.8507801	0.9143891	0.8531254	-0.06126368
0.02744	0.00995	20.02112	15.61612	0.8887115	0.7296839	0.845479	0.1157952
0.045681	0.01329	18.76343	13.40262	0.8511184	0.6702799	0.7820263	0.1117464
8.71E-05	5.15E-05	42.87839	40.59748	0.1833345	0.1182014	0.1772788	0.05907735
0.003292	4.86E-05	43.13497	24.82605	0.9057204	0.7399747	0.812773	0.07279827
3.99E-05	0.00021	36.73892	43.98777	0.6036471	0.7162673	0.5888944	-0.1273729
0.019859	0.01512	18.20544	17.02039	0.5177316	0.6203519	0.5310764	-0.08927553
0.017636	0.00592	22.27767	17.5359	0.8531503	0.6966901	0.7988945	0.1022045
0.003342	0.00792	21.0144	24.76019	0.7791867	0.8466341	0.7718928	-0.07474141
0.002112	0.00151	28.2107	26.75235	0.8416541	0.9329081	0.8570815	-0.07582659
0.03664	0.04425	13.54114	14.3605	0.7126991	0.8178968	0.7080695	-0.1098273
0.002039	0.01707	17.67874	26.90556	0.8400993	0.9053434	0.8042229	-0.1011205
0.035058	0.00599	22.22699	14.55214	0.8567683	0.774399	0.8291481	0.05474907
0.006439	0.01928	17.15004	21.91186	0.4063911	0.3521161	0.4181235	0.06600739
0.003543	0.02861	15.43548	24.50599	0.8308843	0.7425868	0.6343867	-0.1082001
0.000711	0.00014	38.46627	31.47854	0.17924	0.0814311	0.1575261	0.07609493
0.02973	0.0138	18.60106	15.26801	0.8380539	0.7075109	0.8118832	0.1043723
0.011763	0.02505	16.0117	19.29467	0.8996609	0.8468549	0.9030474	0.05619255
0.049012	0.02349	16.29109	13.09696	0.4492577	0.285368	0.4013645	0.1159965
0.028636	0.02035	16.91475	15.43085	0.392287	0.315391	0.385251	0.06985997
0.020248	0.00473	23.24694	16.93617	0.803465	0.6693654	0.7708026	0.1014371
0.026202	0.0238	16.2351	15.81673	0.8999207	0.83476	0.7676036	-0.06715643
0.000669	4.69E-05	43.29123	31.74412	0.9095992	0.8434778	0.905525	0.06204712
0.00592	0.00011	39.65382	22.27676	0.7948233	0.5433933	0.4397916	-0.1036017

0.002518	0.0048	23.18363	25.98954	0.2223811	0.1456355	0.21715	0.07151446
0.003371	0.00074	31.31034	24.72265	0.1700465	0.0761821	0.1418332	0.06565115
0.00664	0.00318	24.98222	21.77822	0.2121392	0.1063155	0.1787581	0.07244263
0.027008	0.02299	16.38447	15.68513	0.3321128	0.2076659	0.3231619	0.115496
0.008587	0.00151	28.20952	20.66156	0.2427907	0.4695556	0.6021732	0.1326176
0.007295	0.00315	25.02316	21.36946	0.7515692	0.8278481	0.7658947	-0.06195339
0.001784	0.00408	23.89493	27.48501	0.6685249	0.741604	0.6653206	-0.07628343
0.020739	0.00644	21.91193	16.83212	0.2281027	0.1134872	0.1906376	0.07715045
0.031763	0.00938	20.27635	14.98077	0.1746869	0.4431493	0.6200044	0.176855
0.023231	0.01378	18.60771	16.33932	0.264672	0.1477845	0.2032237	0.05543927
2.94E-06	2.74E-05	45.61798	55.32366	0.8605643	0.9416596	0.8740458	-0.06761382
0.034816	0.0326	14.86826	14.5822	0.9053469	0.7661321	0.6382697	-0.1278624
0.000202	0.00893	20.48968	36.94309	0.8727876	0.9262755	0.8266469	-0.09962859
0.013681	0.01175	19.29965	18.6389	0.347427	0.5073301	0.3627907	-0.1445394
0.047961	0.03475	14.59102	13.19113	0.8211258	0.7345373	0.8149461	0.08040877
0.038828	0.01059	19.74995	14.10854	0.6375695	0.7598816	0.6682433	-0.0916382
0.001215	0.00014	38.69496	29.15517	0.0899417	0.0244103	0.0786185	0.05420815
0.049675	0.02674	15.72908	13.03866	0.2392225	0.1354092	0.1941006	0.05869144
0.026889	0.00102	29.90093	15.70433	0.7403337	0.6175963	0.6795058	0.06190954
0.016472	0.01474	18.3155	17.83251	0.8738217	0.7652748	0.8648099	0.09953512
0.044428	0.03572	14.47147	13.52341	0.0375403	0.1058831	0.0423376	-0.06354552
0.011645	9.18E-05	40.37178	19.33865	0.0594394	0.1826917	0.1245657	-0.05812598
0.020902	0.0053	22.75469	16.79811	0.6568977	0.6036205	0.5367852	-0.06683527
0.028397	0.0169	17.72214	15.46725	0.6447183	0.7186695	0.6550497	-0.0636198
0.018646	0.02865	15.42803	17.29424	0.6575487	0.7791018	0.6478362	-0.1312656
0.009119	0.01106	19.5607	20.4004	0.8255388	0.7701902	0.830228	0.06003783
0.003779	3.20E-07	64.95319	24.22627	0.084041	0.4300734	0.530287	0.1002136
0.025691	0.00864	20.63236	15.90228	0.8496879	0.7388764	0.6607546	-0.07812188
0.036509	0.02421	16.16043	14.37597	0.5859179	0.6462507	0.5928381	-0.05341263
0.003285	0.003	25.22862	24.83432	0.2433749	0.1629507	0.2370857	0.07413497
0.003949	0.00214	26.7038	24.03468	0.2624335	0.1952922	0.2657525	0.07046029
0.003012	0.0404	13.93588	25.21082	0.7774469	0.69621	0.8096172	0.1134072
0.00705	0.00718	21.43818	21.51789	0.1069479	0.2191751	0.1061381	-0.113037
0.037472	1.04E-05	49.81068	14.26293	0.1070978	0.5004727	0.5853961	0.0849233
0.003612	0.00433	23.63113	24.42287	0.8437335	0.7364235	0.6363745	-0.100049
0.017088	0.00171	27.67018	17.67314	0.8250671	0.6747373	0.5970393	-0.07769794
0.002617	0.00864	20.63357	25.82211	0.9153442	0.7066033	0.4629241	-0.2436793
0.044194	4.14E-05	43.83096	13.54633	0.6371017	0.8990047	0.8324037	-0.06660096
0.043774	0.00041	33.88123	13.58786	0.2574673	0.5447757	0.6384477	0.09367203
0.004043	1.13E-05	49.48161	23.93309	0.2522822	0.7377605	0.5642018	-0.1735587
0.001894	1.14E-05	49.42451	27.22613	0.9285564	0.818367	0.8698035	0.05143649
0.012297	0.00026	35.86705	19.10185	0.8179687	0.6841345	0.7493721	0.06523763
0.017049	0.01907	17.19744	17.68298	0.9081765	0.8422115	0.909708	0.06749646
0.004426	0.01498	18.24526	23.53981	0.8416442	0.9037378	0.8250445	-0.07869332
0.00124	0.00136	28.67417	29.06537	0.7921447	0.7356221	0.7957069	0.06008474
0.001908	0.00083	30.83472	27.1947	0.1324679	0.0547048	0.1176263	0.06292141
0.031872	0.03685	14.33512	14.96585	0.6199586	0.6905305	0.6271839	-0.06334668
0.000866	0.00053	32.73645	30.62404	0.2125859	0.136241	0.206868	0.07062694
0.041911	0.00077	31.13638	13.77676	0.3380232	0.1972518	0.2544962	0.05724438
0.009806	0.01099	19.59169	20.08524	0.7684806	0.8362838	0.7641348	-0.07214903
4.03E-06	7.31E-07	61.36036	53.94178	0.1890373	0.0855661	0.1807666	0.09520049
0.037387	0.02505	16.01161	14.27281	0.8611987	0.6658037	0.826705	0.1609014
0.002674	0.00019	37.17759	25.72763	0.9193634	0.84519	0.8977693	0.05257925
0.013569	0.00635	21.97354	18.67437	0.7823427	0.8770101	0.8012627	-0.07574739

0.008677	0.00089	30.48979	20.61612	0.8323039	0.6719587	0.574541	-0.09741773
0.000128	0.00018	37.55451	38.93153	0.7384063	0.8449115	0.7171234	-0.1277881
0.000118	3.30E-05	44.80851	39.29525	0.1965028	0.0573279	0.1600812	0.1027533
0.006156	0.00336	24.74273	22.10714	0.8263764	0.9063618	0.8385667	-0.06779506
0.024787	0.00065	31.8651	16.05783	0.3595164	0.4877865	0.4376876	-0.05009889
0.032839	0.03686	14.33457	14.83617	0.777962	0.8502187	0.7812592	-0.06895936
0.009055	0.00206	26.86867	20.43119	0.1629243	0.3537287	0.462497	0.1087683
0.028173	0.00022	36.59446	15.50165	0.1450707	0.3642843	0.4470612	0.08277689
0.015545	0.00574	22.41114	18.08409	0.1906987	0.0959941	0.1752453	0.07925118
0.01071	0.00021	36.75764	19.70226	0.7732811	0.6817808	0.7373644	0.05558357
0.019606	8.01E-05	40.9627	17.0761	0.1494061	0.3303199	0.4012218	0.07090185
0.006175	4.45E-05	43.51217	22.09374	0.8056315	0.7050775	0.7706568	0.0655793
0.021778	0.00056	32.50804	16.61975	0.7881583	0.5632076	0.6814774	0.1182697
0.017262	0.00926	20.33569	17.62897	0.8947276	0.7307621	0.6179063	-0.1128558
0.001885	0.00412	23.85357	27.24594	0.6238146	0.6819634	0.6151413	-0.06682204
1.99E-06	8.12E-06	50.90493	57.00139	0.163947	0.0493958	0.1445026	0.09510681
0.006297	0.00634	21.97925	22.00873	0.7232959	0.8536664	0.7244138	-0.1292526
0.001553	0.0215	16.67528	28.08882	0.7485136	0.8120384	0.6985328	-0.1135056
0.002289	0.00068	31.64685	26.40443	0.8716046	0.9338343	0.8747532	-0.05908109
0.042147	0.00099	30.04462	13.75235	0.780283	0.637137	0.6996097	0.06247274
0.014014	0.00242	26.15772	18.53438	0.8405827	0.7806869	0.7212774	-0.05940957
0.040732	0.01568	18.04597	13.90065	0.8250343	0.5221253	0.7332569	0.2111316
0.0025	0.00842	20.74874	26.02024	0.8856898	0.7589809	0.6149497	-0.1440312
0.042469	0.01674	17.76258	13.71924	0.7522917	0.5752051	0.7053429	0.1301378
0.005401	3.32E-06	54.79237	22.67521	0.9095784	0.597985	0.7072631	0.1092781
0.046954	0.04582	13.3893	13.28328	0.6377869	0.7174323	0.6403121	-0.07712013
0.004133	0.00695	21.58291	23.83727	0.6969932	0.8158504	0.6969054	-0.118945
0.042772	0.04413	13.55237	13.68844	0.7848907	0.7269967	0.7842521	0.05725539
0.011155	0.00675	21.70463	19.52525	0.156075	0.068154	0.1376985	0.06954452
0.006665	8.99E-05	40.46188	21.76229	0.7606393	0.5120051	0.6214454	0.1094403
0.043316	0.03901	14.08865	13.63353	0.8810232	0.8103002	0.8801135	0.06981342
0.005986	1.38E-07	68.61434	22.22831	0.1027379	0.6116314	0.7324756	0.1208442
0.000482	4.09E-05	43.88575	33.17361	0.1497061	0.0619786	0.1237318	0.06175325
0.043541	0.03055	15.1501	13.61107	0.8509857	0.6178538	0.8177969	0.1999431
0.009932	0.01238	19.07289	20.02958	0.7449263	0.8776165	0.7446898	-0.1329268
0.040143	0.03778	14.22727	13.96385	0.8054575	0.7163007	0.6210847	-0.09521594
0.044867	0.00495	23.05812	13.48078	0.8134822	0.526049	0.6684676	0.1424186
0.0123	1.20E-05	49.20094	19.10094	0.6929059	0.4230456	0.3618352	-0.06121045
0.031261	0.00192	27.17287	15.05002	0.7812576	0.6820601	0.742156	0.06009591
0.000192	0.00216	26.66535	37.16597	0.2307587	0.0944886	0.2333765	0.1388879
0.005258	0.01301	18.85564	22.79183	0.8430898	0.9089925	0.8256909	-0.08330154
0.038374	0.03464	14.60483	14.15968	0.7572354	0.8759141	0.7612938	-0.1146203
0.018759	0.01089	19.62959	17.26796	0.5527129	0.6489476	0.5582611	-0.09068654
0.000772	0.0019	27.20451	31.12499	0.1096258	0.0557481	0.1185721	0.06282401
0.025886	0.01899	17.21532	15.8693	0.1328326	0.2073867	0.1384601	-0.06892668
0.006519	0.00053	32.72149	21.85791	0.9211405	0.8010533	0.6028571	-0.1981962
0.021979	0.0474	13.24184	16.58001	0.8435822	0.7830728	0.8606065	0.07753371
0.043401	0.01325	18.77712	13.62498	0.7897589	0.6042454	0.7214951	0.1172497
0.008705	0.00956	20.19523	20.60217	0.3822806	0.2547433	0.3789945	0.1242512
0.038163	0.01799	17.45055	14.18355	0.1604776	0.104749	0.1564202	0.05167119
0.006791	0.00381	24.19367	21.68073	0.8437882	0.7637064	0.8449271	0.08122063
0.021559	0.00909	20.41527	16.6637	0.6752254	0.6115768	0.5512106	-0.06036622
0.001192	0.00185	27.33303	29.23743	0.1068009	0.0372586	0.0944745	0.05721585
0.041549	0.03206	14.94075	13.81443	0.8580141	0.7323433	0.8484124	0.1160691

0.005928	0.00314	25.03656	22.2711	0.8213698	0.9052101	0.8440179	-0.06119217
0.024003	0.00065	31.88343	16.19739	0.1494434	0.3738836	0.464266	0.09038242
0.024487	3.62E-05	44.40897	16.11066	0.7078738	0.4495733	0.5437524	0.09417912
0.014353	0.04721	13.25958	18.43057	0.6479635	0.7262432	0.6005273	-0.1257158
0.024078	0.03936	14.04941	16.18385	0.518936	0.5772226	0.5092395	-0.06798317
0.009186	0.00937	20.28183	20.3689	0.5332555	0.6630971	0.5300223	-0.1330748
0.015519	0.03355	14.74339	18.09141	0.82798	0.9039383	0.8084894	-0.09544886
0.013874	0.01822	17.39534	18.57799	0.1614569	0.0705445	0.1709614	0.100417
1.92E-06	4.51E-06	53.45864	57.1782	0.5806006	0.4127167	0.5730522	0.1603354
0.031938	0.00405	23.92965	14.95691	0.9433962	0.8725722	0.8010142	-0.071558
0.044099	0.01412	18.50219	13.55574	0.8623983	0.7616178	0.8300515	0.06843375
0.043356	0.02592	15.86326	13.62952	0.3251146	0.1889599	0.2942219	0.105262
0.033173	0.00731	21.36224	14.79209	0.8144206	0.5868573	0.7253185	0.1384612
0.035875	0.0077	21.13504	14.45213	0.6642109	0.5084686	0.4106195	-0.09784908
0.001124	0.01971	17.05421	29.49297	0.7427338	0.807378	0.6855925	-0.1217854
0.006055	0.00483	23.15936	22.17875	0.7152925	0.8743293	0.7330794	-0.14125
0.006663	0.0026	25.8523	21.76351	0.7603626	0.6882774	0.7496513	0.0613738
0.007761	1.57E-06	58.04368	21.10064	0.8305964	0.4101332	0.6027721	0.1926389
0.010487	0.00015	38.21445	19.79336	0.8444023	0.7290861	0.6598397	-0.06924638
0.045866	0.04384	13.58103	13.38505	0.8451083	0.6623208	0.8428074	0.1804867
0.001611	0.0078	21.07704	27.92879	0.8534137	0.7987141	0.8636593	0.06494523
0.042224	0.00499	23.02224	13.74436	0.8507864	0.5666907	0.6933125	0.1266218
0.0117	0.0135	18.6959	19.31825	0.826209	0.7580654	0.8401383	0.08207285
0.000709	5.35E-05	42.71621	31.49331	0.7234899	0.5725757	0.6716973	0.09912155
0.009718	0.00343	24.65119	20.12445	0.3313507	0.1737011	0.2907141	0.117013
0.005665	0.00012	39.23952	22.46836	0.8345454	0.6234984	0.711457	0.08795856
0.002101	0.00043	33.65606	26.77568	0.8411461	0.9287478	0.8533605	-0.07538725
0.009886	0.00907	20.42522	20.04967	0.8873988	0.8115978	0.878955	0.06735723
0.04045	0.04459	13.50762	13.93077	0.5891301	0.6659676	0.5915481	-0.07441951
0.000463	0.00213	26.7067	33.34237	0.2400458	0.1456812	0.2500344	0.1043532
0.014291	0.00639	21.94184	18.44929	0.7519703	0.8318473	0.7620907	-0.0697566
0.04416	0.0004	33.98777	13.54967	0.6780009	0.4925471	0.5628386	0.07029154
0.017319	0.00744	21.28484	17.61474	0.761122	0.6336651	0.7366989	0.1030338
0.039303	0.04892	13.10522	14.0557	0.9178978	0.7462083	0.5578879	-0.1883204
3.05E-05	1.01E-05	49.94605	45.16206	0.7859806	0.8734314	0.7961065	-0.07732491
0.018021	0.01124	19.49401	17.44231	0.7968137	0.6099262	0.7237025	0.1137764
0.009491	0.00274	25.61589	20.22698	0.7444721	0.8398096	0.7584036	-0.08140597
0.001863	0.00413	23.84131	27.29752	0.8205271	0.8846666	0.8153631	-0.06930352
0.000345	4.84E-05	43.15069	34.61603	0.7872501	0.8816286	0.7877485	-0.09388009
0.022645	0.02147	16.68102	16.45019	0.5762464	0.6714457	0.5805001	-0.09094561
0.002208	0.00224	26.4959	26.56027	0.5596049	0.6539394	0.5529261	-0.1010133
0.002746	0.00844	20.73532	25.61231	0.5926014	0.7122089	0.5590472	-0.1531618
5.59E-05	4.74E-07	63.23824	42.52743	0.2170873	0.1225872	0.2180938	0.09550656
0.010179	0.00505	22.9664	19.92303	0.8293735	0.9243653	0.7925518	-0.1318135
0.003714	0.0008	30.95957	24.30184	0.1246511	0.0633934	0.1250509	0.06165756
0.001617	0.00045	33.43483	27.91395	0.8823659	0.9482118	0.8935193	-0.05469254
0.009658	0.015	18.23787	20.15105	0.8888912	0.8018402	0.8931835	0.09134322
0.034706	0.03861	14.13258	14.59597	0.6025431	0.6643363	0.6026855	-0.06165082
0.010849	1.18E-06	59.26963	19.64596	0.1234177	0.5616096	0.6712107	0.1096011
0.007266	0.01793	17.46437	21.38695	0.9284056	0.8725803	0.8037077	-0.06887267
0.038271	2.61E-05	45.82649	14.17129	0.8062527	0.9550595	0.8994257	-0.05563378
0.039927	0.00645	21.90542	13.98736	0.857704	0.6832538	0.5980827	-0.08517104
0.013707	0.00708	21.49874	18.63073	0.7536236	0.8354646	0.7630508	-0.07241378
0.000584	0.00117	29.30597	32.33258	0.7016602	0.8391853	0.7075378	-0.1316475

0.013534	0.02828	15.48445	18.68558	0.6457242	0.8075241	0.6220872	-0.1854369
0.004279	0.00167	27.77338	23.68651	0.1081585	0.0426824	0.1025552	0.05987286
0.037504	0.04819	13.17047	14.25917	0.2473337	0.190483	0.2496616	0.05917858
0.008096	0.01325	18.77657	20.91703	0.782343	0.878258	0.7796229	-0.09863517
0.004371	6.56E-06	51.82903	23.59467	0.2953439	0.8174842	0.7094559	-0.1080283
0.035045	7.68E-05	41.14506	14.55372	0.8307854	0.6564348	0.7296559	0.07322112
0.006324	0.02132	16.71123	21.98999	0.9175423	0.7943355	0.6502084	-0.1441272
0.036799	0.02431	16.14127	14.34159	0.8553449	0.7951832	0.8482237	0.05304047
0.007519	0.00643	21.91549	21.23835	0.4633717	0.6262994	0.4774753	-0.1488241
0.033253	0.00119	29.24481	14.78176	0.052151	0.4470588	0.5673903	0.1203315
0.00773	2.34E-06	56.30611	21.11808	0.8346775	0.5721939	0.6805512	0.1083573
0.039337	0.00982	20.08084	14.05193	0.8106565	0.6781151	0.7623171	0.0842019
0.013331	0.00109	29.60722	18.75148	0.0873273	0.2168919	0.2945126	0.07762064
0.02651	0.00405	23.92924	15.76591	0.115977	0.2458639	0.3277879	0.08192403
0.023094	0.00471	23.27415	16.36507	0.7964198	0.7220463	0.7746692	0.0526229
0.027965	0.00106	29.76348	15.5339	0.7801256	0.5907812	0.4745748	-0.1162064
0.000389	0.00015	38.30851	34.10057	0.1432509	0.0579197	0.1378269	0.07990717
0.011328	8.35E-07	60.78484	19.45835	0.2326733	0.8120797	0.6755562	-0.1365235
0.036966	0.00501	23.00547	14.32195	0.1091438	0.2446924	0.1699992	-0.07469328
0.019849	0.02046	16.89064	17.02262	0.8014861	0.718084	0.798979	0.08089504
0.000404	0.00305	25.15216	33.94129	0.8665814	0.7867222	0.8579344	0.07121211
0.005926	0.00252	25.9945	22.27264	0.3746651	0.2448835	0.3509135	0.1060301
0.001825	0.00416	23.80886	27.3864	0.6572824	0.735051	0.6613939	-0.07365703
0.035327	0.04988	13.02072	14.51888	0.6940666	0.6093829	0.6943521	0.08496927
5.93E-06	6.28E-07	62.02217	52.27179	0.4986408	0.6416105	0.4990686	-0.1425418
7.05E-05	0.00013	38.76586	41.51571	0.6653843	0.7792425	0.6026625	-0.17658
0.032294	0.02358	16.2753	14.90882	0.7048042	0.4510959	0.6904509	0.239355
0.000229	0.00072	31.45254	36.41011	0.8314388	0.9007035	0.8309881	-0.06971542
0.019293	0.02528	15.97205	17.14611	0.7446833	0.8145679	0.7376376	-0.07693025
0.009758	0.00433	23.6318	20.10621	0.8319029	0.7616475	0.8266519	0.06500435
0.002888	0.0004	33.93266	25.3947	0.1940583	0.0939844	0.1951649	0.1011805
0.035047	0.01072	19.69655	14.55348	0.7689885	0.6995016	0.750115	0.05061339
0.000383	0.00262	25.81793	34.16643	0.817378	0.9056697	0.8061279	-0.09954186
0.033624	0.00426	23.70663	14.73355	0.0972582	0.2044216	0.1399816	-0.06443996
0.019902	0.01566	18.05315	17.01103	0.8640335	0.9250216	0.8713269	-0.05369469
5.36E-05	9.58E-05	40.18858	42.70646	0.4709879	0.6154438	0.4638472	-0.1515966
0.031149	1.27E-05	48.97063	15.06561	0.7552907	0.5449139	0.4828528	-0.06206118
0.000712	0.00174	27.59225	31.47237	0.6234328	0.7462156	0.5980824	-0.1481332
0.005337	0.00641	21.93016	22.72689	0.8709699	0.7103722	0.5620443	-0.1483279
0.028244	0.00038	34.16724	15.49079	0.4366707	0.694956	0.6078494	-0.08710667
0.0149	0.0219	16.59475	18.26825	0.6909785	0.7792847	0.6868685	-0.0924161
0.044972	0.00022	36.6292	13.47061	0.785879	0.6059635	0.5412025	-0.06476096
0.012084	0.01035	19.85219	19.17789	0.7889034	0.8607038	0.7936386	-0.06706519
0.023133	0.01048	19.79562	16.35768	0.5993467	0.7278288	0.6301978	-0.09763102
0.027157	2.69E-05	45.69806	15.66122	0.5885719	0.8518597	0.7896109	-0.0622488
0.031974	0.00091	30.41833	14.95198	0.7408486	0.6127063	0.6740329	0.06132657
0.01938	0.01048	19.79734	17.12644	0.8949404	0.9580448	0.9002308	-0.05781397
0.011356	0.00075	31.22698	19.44769	0.0785375	0.4917615	0.6291409	0.1373794
0.038706	0.02863	15.43212	14.12217	0.8616332	0.6336766	0.8386707	0.2049941
0.011747	0.00068	31.65735	19.3009	0.694212	0.7621904	0.7019682	-0.06022226
0.034119	0.02638	15.78759	14.67004	0.6575941	0.7540461	0.6691095	-0.08493663
0.035761	0.00098	30.10323	14.46593	0.7560385	0.61205	0.5462784	-0.06577167
0.010326	0.0164	17.85157	19.86062	0.8747641	0.8152167	0.8751781	0.05996142
0.007576	0.00353	24.51899	21.20539	0.7252663	0.812856	0.7359536	-0.07690243



0.046784	3.05E-05	45.15254	13.29907	0.1518254	0.435762	0.4988299	0.06306791
0.049075	0.00119	29.24947	13.09138	0.3962723	0.5565965	0.6115881	0.05499158
0.01947	2.80E-07	65.52526	17.10627	0.1076107	0.3335523	0.3973514	0.06379911
0.03288	0.01069	19.70997	14.83064	0.8486337	0.7687839	0.6683287	-0.1004552
0.020179	0.01265	18.97923	16.951	0.9106952	0.757651	0.6390216	-0.1186294
0.034511	0.00617	22.10012	14.62039	0.0927538	0.2547468	0.3357659	0.08101913
0.001562	0.00432	23.64643	28.06318	0.801904	0.9131229	0.7930813	-0.1200415
0.00489	0.0066	21.80618	23.10647	0.666948	0.854986	0.6765699	-0.1784161
0.021149	0.00138	28.6029	16.74715	0.8633264	0.6725926	0.5653611	-0.1072315
0.00138	0.00179	27.48184	28.60005	0.1418175	0.0832235	0.1367989	0.05357546
0.036039	0.01883	17.25208	14.43223	0.5563821	0.6872892	0.5876877	-0.0996015
0.002047	0.0107	19.70706	26.8893	0.8784435	0.9326779	0.8663148	-0.06636308
0.008015	0.01365	18.64796	20.96123	0.6389213	0.7329817	0.6289338	-0.1040479
0.028742	0.03248	14.8841	15.41482	0.8814692	0.7846326	0.8792597	0.09462708
0.020418	0.00013	38.8916	16.89996	0.6598166	0.3931256	0.473076	0.07995033
0.038339	0.00332	24.78814	14.16354	0.2551172	0.4047937	0.4951754	0.09038169
0.037171	0.01082	19.65745	14.29792	0.8981385	0.7984004	0.8615384	0.06313796
0.013417	0.02112	16.75376	18.72347	0.6608283	0.7534027	0.609935	-0.1434677
0.000216	1.68E-05	47.74014	36.65564	0.8168813	0.8802238	0.8202441	-0.0599796
0.027165	0.02542	15.94827	15.65986	0.8652029	0.8067806	0.8598279	0.05304726
0.048355	0.04	13.97924	13.15557	0.8882629	0.7088745	0.8694854	0.1606109
0.038407	0.00155	28.10566	14.15588	0.8024331	0.652263	0.7309387	0.0786757
0.01182	0.00357	24.47043	19.27377	0.818968	0.6434121	0.774672	0.1312599
0.020158	0.039	14.08883	16.95562	0.7762949	0.8426651	0.765137	-0.0775281
0.021749	0.02062	16.85693	16.62559	0.8898259	0.8342417	0.8893495	0.0551078
0.019695	0.02896	15.3814	17.05654	0.8086454	0.8770708	0.8019565	-0.07511431
0.014863	0.00019	37.29575	18.27894	0.1439271	0.4814659	0.3348466	-0.1466194
0.015454	0.01151	19.38826	18.10964	0.2082441	0.113067	0.2049227	0.09185563
0.049289	0.00473	23.24802	13.07249	0.7716645	0.8786103	0.8269285	-0.05168184
0.000946	0.00036	34.44408	30.24243	0.7700844	0.8284588	0.7766989	-0.05175992
0.029957	0.00026	35.86929	15.23503	0.7568209	0.5333585	0.6240069	0.09064847
0.010817	9.24E-05	40.34132	19.65874	0.8458444	0.7643255	0.6868571	-0.07746844
4.19E-05	7.14E-07	61.46135	43.78256	0.1592326	0.091932	0.1490649	0.05713288
0.00013	3.92E-05	44.06324	38.86613	0.2569586	0.1599922	0.2363734	0.07638115
0.049647	0.01901	17.20966	13.04105	0.7577521	0.6826203	0.739341	0.05672066
0.003228	0.00054	32.64978	24.91048	0.8789708	0.7005255	0.839061	0.1385355
0.017962	0.019	17.21152	17.45646	0.8524717	0.7914336	0.855865	0.06443133
0.025939	0.02889	15.39196	15.86054	0.768365	0.6796737	0.5722932	-0.1073805
0.021138	0.01554	18.08438	16.74927	0.806572	0.612917	0.7686103	0.1556933
0.040788	0.03324	14.78333	13.89472	0.8454326	0.6062785	0.8268346	0.2205561
0.027793	0.02962	15.28452	15.56066	0.5398372	0.6047121	0.5371476	-0.06756447
0.00045	5.65E-05	42.48136	33.46466	0.1826276	0.0997907	0.1621241	0.06233338
0.004486	3.42E-06	54.65348	23.48151	0.1989873	0.3687622	0.4576122	0.08885001
0.002009	0.00317	24.991	26.97095	0.6430153	0.747251	0.6498296	-0.0974214
0.04476	1.93E-06	57.14387	13.49114	0.2141789	0.749308	0.6733216	-0.07598645
0.000952	0.00047	33.3138	30.21312	0.1629401	0.0999118	0.1539219	0.05401015
0.012318	0.00722	21.41315	19.09443	0.1776066	0.099489	0.1649341	0.06544504
0.045513	0.02097	16.7832	13.41866	0.6789309	0.5372652	0.6467215	0.1094563
0.040747	3.28E-06	54.83886	13.89905	0.6111013	0.8407795	0.7524427	-0.08833674
0.04183	0.02743	15.61754	13.78517	0.0647572	0.1337243	0.0741677	-0.05955652
0.040642	0.03069	15.13062	13.91028	0.7455263	0.626452	0.7328684	0.1064164
0.014971	0.02517	15.99161	18.24752	0.9232985	0.8673722	0.9330546	0.06568241
3.60E-05	4.24E-06	53.72597	44.44194	0.0938432	0.0191115	0.083573	0.06446154
0.006938	0.02133	16.71054	21.58754	0.7144985	0.7863837	0.6837509	-0.1026328

0.002197	0.00199	27.01967	26.58141	0.838261	0.7342672	0.8254898	0.09122265
0.002972	0.00274	25.62112	25.26895	0.1845901	0.1105817	0.1773013	0.06671962
0.028194	0.03409	14.67329	15.4985	0.9272122	0.8385643	0.7533153	-0.08524904
0.021349	0.00134	28.72163	16.70632	0.899959	0.7491375	0.6796027	-0.06953478
0.000843	0.00273	25.63386	30.74353	0.818397	0.8987054	0.7993743	-0.09933115
0.010084	0.03597	14.44069	19.96383	0.8212848	0.8840018	0.7947264	-0.08927536
0.000157	3.78E-05	44.22678	38.05219	0.6295562	0.7137777	0.6303522	-0.08342555
0.009194	0.00248	26.0523	20.3651	0.8885969	0.6870736	0.8351598	0.1480861
0.043755	0.01058	19.7569	13.58972	0.8301367	0.5854264	0.4421497	-0.1432768
0.020275	0.00513	22.8972	16.93039	0.7783244	0.6288327	0.7284394	0.09960666
0.008312	0.0337	14.72407	20.80306	0.4802076	0.55251	0.437757	-0.114753
0.040283	0.01571	18.03961	13.94882	0.2360531	0.1557857	0.2154334	0.05964777
0.006635	0.00204	26.89355	21.78182	0.8578457	0.737121	0.8349173	0.09779631
0.007764	0.00648	21.88704	21.09936	0.8113608	0.7284606	0.7956576	0.06719693
0.030307	0.00224	26.49604	15.18458	0.151537	0.3239299	0.4010681	0.07713826
0.00051	5.42E-07	62.65775	32.92605	0.2967614	0.6758597	0.754025	0.07816528
0.009725	0.01079	19.67088	20.12091	0.439233	0.3279373	0.4334711	0.1055338
0.00202	0.00173	27.62986	26.94588	0.2520504	0.0833802	0.2320928	0.1487126
0.018008	0.04267	13.69889	17.44543	0.6464872	0.7130599	0.6299697	-0.08309016
0.00021	0.00067	31.75285	36.76817	0.3599559	0.2658403	0.3709891	0.1051488
0.039626	6.13E-07	62.12705	14.02015	0.8356361	0.686126	0.6037552	-0.0823708
0.014598	0.01627	17.88669	18.35715	0.2446897	0.2995681	0.4103399	0.1107718
0.013149	0.00037	34.25995	18.81119	0.7923311	0.6790596	0.7336868	0.05462725
0.028443	0.00036	34.4847	15.46018	0.8458553	0.6541479	0.5051341	-0.1490138
0.039139	0.00261	25.82953	14.07396	0.2214392	0.1016092	0.1626404	0.0610312
0.020656	7.09E-06	51.49402	16.84944	0.8183641	0.6230877	0.570865	-0.05222266
7.89E-05	0.00108	29.66564	41.02721	0.4227159	0.4950372	0.4029589	-0.09207833
2.52E-07	3.45E-05	44.62479	65.99313	0.7369021	0.8287995	0.6977839	-0.1310157
0.01039	0.00109	29.63617	19.83389	0.8402762	0.7713649	0.7117408	-0.0596241
0.012033	0.02505	16.01271	19.19609	0.7096224	0.8205881	0.6917548	-0.1288332
7.70E-05	0.00035	34.55193	41.13583	0.1912313	0.1075266	0.188823	0.08129647
0.016328	0.0126	18.99532	17.87065	0.8594152	0.9230476	0.8673999	-0.05564763
0.020745	0.00021	36.83257	16.83079	0.8028243	0.477778	0.3852451	-0.09253287
0.005655	0.00218	26.61375	22.47534	0.8643342	0.789668	0.8483838	0.05871577
0.005538	0.0041	23.87369	22.56666	0.0537392	0.1535053	0.3259073	0.172402
0.022523	9.89E-05	40.04649	16.47377	0.1207495	0.2835323	0.3690768	0.08554454
0.017852	0.00671	21.73036	17.48317	0.2020522	0.1178007	0.1767212	0.05892053
0.019642	0.02919	15.3479	17.06812	0.5682577	0.6931542	0.5636942	-0.1294599
0.001436	0.00082	30.85194	28.42983	0.1944985	0.1085293	0.1804897	0.07196043
0.000985	0.0021	26.787	30.06396	0.8356411	0.9012917	0.8119472	-0.08934449
0.036832	0.01283	18.91817	14.33772	0.8749696	0.7686243	0.8453405	0.07671618
0.042274	0.03439	14.63534	13.73932	0.5748643	0.6384239	0.5801747	-0.05824922
0.000465	0.00023	36.42545	33.3277	0.3585077	0.2257877	0.3450438	0.1192561
0.004126	0.00636	21.96576	23.84434	0.7378008	0.8627277	0.7521274	-0.1106003
0.017193	5.31E-05	42.75049	17.64651	0.0493817	0.2760311	0.3909616	0.1149305
0.000717	0.00013	38.99536	31.44503	0.1108289	0.0595421	0.1104184	0.05087634
0.035572	0.00526	22.78798	14.48893	0.761391	0.6305407	0.54047	-0.09007075
0.033161	0.02745	15.61528	14.79376	0.5101088	0.3914144	0.4952374	0.103823
0.012783	0.00051	32.92334	18.93378	0.5310916	0.634172	0.550822	-0.08335008
0.001849	0.00016	37.94604	27.33069	0.8314986	0.5747963	0.4182076	-0.1565887
0.017086	0.01201	19.2062	17.67359	0.3119979	0.4838753	0.6055197	0.1216445
0.000665	0.00075	31.27616	31.77448	0.8925843	0.8347723	0.888927	0.05415469
0.025681	0.03989	13.99149	15.90384	0.6053759	0.7592754	0.577966	-0.1813094
0.000655	3.32E-05	44.78428	31.83861	0.780363	0.5957153	0.7125551	0.1168398

0.006779	0.00624	22.04661	21.6884	0.4355014	0.3524381	0.4319019	0.07946384
0.000203	0.00014	38.66185	36.93475	0.4034434	0.2052802	0.4008778	0.1955976
0.016637	0.01022	19.90735	17.78927	0.8226427	0.7405227	0.8083589	0.06783621
0.023258	0.02338	16.31217	16.33435	0.8015897	0.859721	0.8006829	-0.05903811
0.001765	0.00329	24.82303	27.53308	0.5586252	0.4128245	0.4935427	0.08071826
0.039023	0.03786	14.21786	14.08676	0.872688	0.9423728	0.8849866	-0.05738622
0.000851	5.26E-06	52.78724	30.70032	0.1646658	0.0970299	0.1577486	0.06071867
0.017079	0.01621	17.90278	17.67548	0.6336213	0.7569918	0.6386429	-0.1183489
0.000527	0.00016	38.08462	32.78101	0.7907754	0.8571362	0.8029829	-0.05415341
0.012087	0.02708	15.67296	19.17688	0.5873713	0.7042449	0.5590677	-0.1451772
0.002049	0.00755	21.21859	26.88537	0.8258777	0.8881255	0.8172711	-0.07085443
0.008148	0.00722	21.41296	20.88971	0.0606288	0.1555012	0.3256645	0.1701633
0.000278	0.00014	38.46972	35.55671	0.2643128	0.1631407	0.2439428	0.08080204
3.11E-05	7.06E-05	41.51389	45.07273	0.7671058	0.8523098	0.769657	-0.08265273
0.005526	0.00023	36.32256	22.57578	0.2005416	0.2846207	0.3848905	0.1002698
0.043008	0.00842	20.74897	13.6645	0.8107716	0.6489716	0.7369105	0.08793887
0.024825	0.0153	18.15414	16.05108	0.5034076	0.4181006	0.4948929	0.07679231
0.04627	8.59E-05	40.66244	13.34703	0.3802917	0.6824462	0.576924	-0.1055221
0.030399	0.01012	19.9488	15.17137	0.8041865	0.7388691	0.6736655	-0.06520361
0.000512	8.29E-05	40.81593	32.90725	0.8447513	0.9265706	0.8585194	-0.06805114
0.014216	0.00227	26.4362	18.47235	0.2592326	0.3735944	0.4511189	0.07752447
0.009608	0.0282	15.49675	20.17353	0.7771995	0.8292201	0.7657859	-0.06343413
0.004346	0.00013	38.7563	23.61893	0.7843361	0.7104027	0.6422257	-0.06817697
0.034835	9.32E-05	40.30806	14.57982	0.7603229	0.5098374	0.6153891	0.1055517
0.009904	0.00018	37.4873	20.04204	0.7526976	0.5966455	0.675108	0.07846246
0.017004	0.03088	15.10295	17.69456	0.8579327	0.9166412	0.851666	-0.06497518
0.022149	0.0028	25.52217	16.54653	0.1520139	0.2667065	0.4062826	0.1395761
0.00509	0.01005	19.9776	22.93297	0.6769779	0.794498	0.6685635	-0.1259345
0.044239	0.03567	14.47673	13.54197	0.7926427	0.8557428	0.7985492	-0.0571935
0.001958	0.00174	27.59903	27.08096	0.403656	0.2514006	0.4099069	0.1585063
0.002685	0.00057	32.41998	25.71084	0.9244699	0.8482453	0.7810905	-0.06715479
0.039024	0.00091	30.42611	14.08663	0.0554632	0.4613433	0.5948912	0.1335479
6.43E-06	5.76E-08	72.39867	51.91748	0.6549498	0.7731208	0.6636685	-0.1094523
0.002665	0.00559	22.52489	25.74328	0.8144758	0.9019351	0.8049479	-0.0969872
0.00589	0.00083	30.81679	22.29868	0.1574042	0.0843836	0.1541647	0.06978114
4.36E-06	3.76E-05	44.25008	53.60399	0.5645652	0.6541334	0.5450839	-0.1090495
0.000159	0.00049	33.05906	37.98886	0.6515098	0.7754462	0.6398489	-0.1355973
0.026799	0.0333	14.77548	15.71874	0.6931399	0.7943031	0.6923811	-0.101922
0.000411	0.00014	38.68566	33.8643	0.8146552	0.8956289	0.7973968	-0.09823203
0.028417	0.02102	16.77355	15.46415	0.1548077	0.3184598	0.1699804	-0.1484794
0.035022	0.04693	13.28516	14.55661	0.5598461	0.6266243	0.5551246	-0.0714997
0.00302	0.00385	24.14444	25.20021	0.5927945	0.8088671	0.5952979	-0.2135692
0.007053	0.00743	21.28992	21.51614	0.7843975	0.7155949	0.7840322	0.06843729
0.023368	0.03478	14.58725	16.31384	0.1711078	0.1174208	0.1798912	0.0624704
0.001299	0.00286	25.44003	28.86498	0.4774747	0.6252974	0.4834649	-0.1418326
0.013049	4.88E-05	43.11533	18.84428	0.7274883	0.3723191	0.5095406	0.1372214
0.003858	0.00117	29.3176	24.13678	0.8899122	0.8047424	0.875829	0.07108663
0.019008	0.00951	20.21738	17.21056	0.8451346	0.7375839	0.8201427	0.08255892
0.00938	0.01828	17.38014	20.27782	0.4691669	0.5263541	0.4626055	-0.06374853
0.007887	0.025	16.02036	21.03104	0.8141143	0.7135	0.5633937	-0.1501063
0.047418	0.03969	14.01367	13.24057	0.9053878	0.8339674	0.903353	0.06938557
0.024141	1.90E-08	77.2021	16.17241	0.3080204	0.877166	0.712819	-0.164347
0.028935	0.00821	20.85793	15.38571	0.6632887	0.5950269	0.5244515	-0.07057546
0.046106	0.01628	17.88238	13.36247	0.0628414	0.2296845	0.1177305	-0.111954

0.000522	0.00023	36.40289	32.82617	0.1625186	0.1022002	0.1634939	0.06129371
0.000816	0.00752	21.23714	30.8855	0.1638722	0.2893772	0.5592976	0.2699204
0.030656	0.00049	33.08295	15.13478	0.8189543	0.7163684	0.783468	0.06709953
0.001464	0.00196	27.07769	28.34578	0.1207283	0.0673579	0.1333182	0.06596036
0.009611	0.0267	15.73482	20.17248	0.7811967	0.8539272	0.756021	-0.09790623
0.005163	1.08E-06	59.66117	22.87115	0.3105503	0.736732	0.6214381	-0.1152939
0.030974	0.00181	27.43111	15.09007	0.510945	0.811992	0.7577569	-0.05423518
0.035856	0.00955	20.20101	14.45439	0.8248458	0.6522101	0.5406221	-0.1115879
0.023707	0.04201	13.76691	16.25129	0.3645912	0.4327391	0.3547919	-0.0779472
0.005524	0.00046	33.34338	22.57709	0.9201126	0.9712624	0.8958198	-0.07544263
0.040901	2.53E-05	45.97565	13.88262	0.2619013	0.4037636	0.4702058	0.06644214
0.027815	0.03306	14.80687	15.55721	0.6610914	0.736808	0.6592917	-0.07751631
0.00213	0.00552	22.58283	26.71701	0.7837006	0.8381981	0.7716545	-0.06654357
0.018339	0.01736	17.60465	17.36623	0.0522931	0.1208394	0.212949	0.09210957
0.002564	0.00673	21.72113	25.90998	0.5270863	0.6679331	0.5202551	-0.147678
0.045485	9.37E-07	60.28152	13.42134	0.5171195	0.9395384	0.8846849	-0.0548535
0.027656	0.00193	27.14558	15.5821	0.0880407	0.2555477	0.3219565	0.06640881
0.009728	0.00244	26.13268	20.11957	0.8455772	0.7374576	0.601535	-0.1359226
0.03359	0.04016	13.96248	14.73795	0.8983954	0.8389595	0.8985108	0.05955129
0.018598	0.0093	20.31416	17.30536	0.7460858	0.506974	0.712432	0.205458
0.01343	0.00965	20.15471	18.7193	0.82201	0.6992005	0.8106495	0.111449
0.019343	0.01544	18.11214	17.13465	0.3565712	0.299555	0.3500299	0.05047489
0.025841	0.00749	21.25366	15.87683	0.6226335	0.488718	0.5868109	0.09809293
0.027619	0.0091	20.40821	15.5879	0.1426617	0.2515164	0.3300772	0.07856084
0.011342	0.00047	33.27492	19.45304	0.1859624	0.0946017	0.1781618	0.08356009
0.001056	0.0043	23.66477	29.76447	0.4993941	0.6145492	0.4923017	-0.1222475
0.010684	0.00749	21.25285	19.71267	0.5428153	0.4606893	0.5350522	0.07436298
0.031992	0.03526	14.52732	14.94953	0.7789705	0.8505679	0.7770855	-0.07348239
0.018519	0.04863	13.1312	17.32375	0.4845039	0.4078676	0.4802167	0.07234906
0.000346	0.00092	30.38254	34.60566	0.5912429	0.6777553	0.5719835	-0.1057718
0.049806	4.95E-07	63.05104	13.02716	0.8453135	0.645958	0.5659822	-0.07997587
0.003916	9.67E-06	50.1438	24.07176	0.2212597	0.1121181	0.1698765	0.05775842
0.00134	0.00256	25.91879	28.72893	0.7762249	0.8424609	0.7804506	-0.06201026
0.012656	0.00797	20.9856	18.9769	0.1422352	0.352395	0.1669253	-0.1854697
4.82E-06	4.31E-05	43.65046	53.17376	0.4957431	0.3062775	0.5096942	0.2034166
0.001161	0.00092	30.35197	29.35089	0.3359446	0.2459902	0.3310843	0.08509407
0.025367	0.00644	21.91212	15.95724	0.1077628	0.2405013	0.3553093	0.1148079
0.009544	0.00583	22.34004	20.20249	0.713573	0.6365532	0.7069954	0.07044224
0.00698	0.02192	16.59154	21.56124	0.6200345	0.6942636	0.5997048	-0.0945588
0.026526	0.0032	24.95275	15.76335	0.8935093	0.7400677	0.8201625	0.08009482
0.008637	0.00013	38.86366	20.63621	0.3312493	0.5499563	0.4633922	-0.08656414
0.031026	0.00255	25.92951	15.08274	0.034451	0.4717865	0.6351031	0.1633166
0.014911	0.01487	18.27807	18.26501	0.5438902	0.6191924	0.5425713	-0.07662112
0.024293	0.03407	14.67585	16.14527	0.5997274	0.5182579	0.617718	0.09946012
0.022048	0.01193	19.2354	16.56625	0.7292783	0.6050398	0.7071108	0.102071
0.000568	0.00215	26.6736	32.45732	0.8116985	0.8721032	0.794175	-0.07792819
0.038965	0.00019	37.14329	14.0933	0.9057098	0.8450409	0.7847489	-0.06029198
0.001879	0.00272	25.65677	27.26163	0.5540643	0.6213984	0.5448347	-0.0765637
0.022555	0.03803	14.19927	16.46756	0.8628204	0.7504895	0.886682	0.1361925
0.041415	0.0002	36.89516	13.82841	0.2191193	0.1364175	0.2061352	0.06971764
0.026776	0.0453	13.43887	15.72249	0.7311114	0.5959445	0.7596677	0.1637232
0.001114	0.0012	29.20457	29.53043	0.8670259	0.7723457	0.8668028	0.09445709
0.030145	0.04522	13.44707	15.20792	0.6257162	0.7202804	0.6194686	-0.1008118
0.031919	0.00252	25.98302	14.95954	0.8931027	0.6214249	0.5125198	-0.1089051

0.016358	0.01006	19.97372	17.86269	0.2089493	0.4398805	0.6173245	0.1774441
0.009791	0.00244	26.13291	20.09166	0.7828311	0.7059147	0.7634841	0.05756939
0.020761	0.00599	22.22229	16.82749	0.8744547	0.7203882	0.6202436	-0.1001446
0.010516	0.0249	16.03767	19.78166	0.8219491	0.7656081	0.6574631	-0.1081449
9.23E-05	7.76E-06	51.10298	40.34961	0.785358	0.878847	0.7802392	-0.09860782
0.014563	0.03621	14.41172	18.36758	0.8613442	0.9186138	0.8409166	-0.0776972
0.003692	0.00073	31.37112	24.32779	0.8190445	0.6974339	0.6070761	-0.0903578
0.044181	0.02578	15.88793	13.54767	0.8418662	0.6000605	0.8048127	0.2047522
0.014108	3.02E-06	55.19983	18.50524	0.1103914	0.457139	0.5192481	0.06210918
8.67E-05	0.00017	37.71566	40.6184	0.6813559	0.8324103	0.7004891	-0.1319213
0.008615	7.71E-05	41.12924	20.64745	0.6725302	0.8752028	0.790795	-0.0844078
0.009628	0.01048	19.79435	20.16477	0.3950062	0.3064596	0.3951323	0.0886727
0.00031	0.00018	37.38749	35.08556	0.5299363	0.6659085	0.5186058	-0.1473027
0.008961	0.00312	25.05613	20.47627	0.0768157	0.2513893	0.3771347	0.1257454
9.04E-05	1.81E-05	47.41413	40.44031	0.8596746	0.6854612	0.7869185	0.1014574
0.011369	0.00942	20.25973	19.44292	0.5373344	0.4311801	0.5191548	0.08797463
0.004211	0.00163	27.86869	23.75578	0.8611789	0.7376007	0.6136309	-0.1239698
0.023231	3.95E-07	64.03658	16.33941	0.1288618	0.6521342	0.7397603	0.08762605
0.012294	0.0024	26.19673	19.10313	0.0634252	0.2685227	0.4077677	0.139245
0.034249	0.03015	15.20705	14.65357	0.7733421	0.8547508	0.7783648	-0.07638595
0.000236	9.32E-05	40.30616	36.27556	0.8449643	0.9393045	0.8766545	-0.06265
0.00012	0.00259	25.87218	39.20527	0.8778521	0.9412671	0.8396776	-0.1015896
0.03216	0.00154	28.12042	14.9268	0.8007059	0.6879863	0.7455984	0.05761215
0.028648	0.01385	18.58658	15.42911	0.2279722	0.1551732	0.2124291	0.05725593
0.007704	0.00717	21.44349	21.13256	0.8240901	0.7622055	0.8314319	0.06922638
0.006381	0.00096	30.18103	21.95135	0.564207	0.7460288	0.6343147	-0.1117142
0.019859	0.00166	27.80352	17.02047	0.7402279	0.5944749	0.498815	-0.09565993
0.002801	0.0124	19.06523	25.52611	0.8699652	0.7751484	0.6543729	-0.1207754
0.000296	0.00067	31.76247	35.28455	0.802833	0.8832945	0.7996983	-0.0835962
0.000416	5.86E-05	42.31796	33.81143	0.1322382	0.2566592	0.1657194	-0.09093983
0.005056	0.00703	21.5307	22.96192	0.7050949	0.7910674	0.7012528	-0.08981462
0.030164	0.00426	23.70156	15.20514	0.4785572	0.6541501	0.5473346	-0.1068154
0.032595	0.00052	32.85828	14.86855	0.0937324	0.4028586	0.5007163	0.09785777
0.037265	0.00766	21.15617	14.28703	0.8145361	0.6327998	0.515579	-0.1172208
0.000619	0.00044	33.56725	32.08377	0.4337928	0.5384704	0.4346469	-0.1038236
0.008664	0.01716	17.6547	20.623	0.9026951	0.7766892	0.9108714	0.1341823
0.017375	0.00494	23.06403	17.60071	0.4195415	0.3122413	0.3863949	0.07415354
0.014029	8.68E-05	40.61699	18.52963	0.7422717	0.611624	0.5403795	-0.07124452
0.003074	0.00519	22.85036	25.12237	0.7587208	0.832778	0.7530299	-0.07974811
1.40E-06	5.16E-06	52.87033	58.55199	0.3140423	0.4786197	0.2914161	-0.1872036
0.011147	0.04382	13.58307	19.52856	0.6803641	0.7547166	0.6566327	-0.09808389
0.007247	0.00964	20.15929	21.39848	0.8086861	0.7460409	0.8152887	0.06924785
0.035596	0.024	16.1974	14.486	0.7957814	0.8724718	0.8075075	-0.06496432
0.004756	0.01508	18.21735	23.22747	0.8372777	0.7243067	0.5927767	-0.13153
0.016352	0.00073	31.38214	17.86438	0.7712675	0.6742553	0.734112	0.05985676
0.046364	0.00563	22.49109	13.33819	0.9086739	0.8115482	0.8616451	0.05009691
8.55E-05	0.00011	39.55398	40.67895	0.1741611	0.1023826	0.1842452	0.08186256
0.033512	0.01087	19.6391	14.74797	0.1277738	0.2464967	0.3346762	0.08817957
0.040195	0.01748	17.57399	13.95824	0.5014706	0.3998205	0.4784447	0.07862419
0.043031	0.00067	31.75112	13.6622	0.5780413	0.8661072	0.7647071	-0.1014002
0.002274	0.00712	21.47482	26.43208	0.8141645	0.8976815	0.8034621	-0.09421948
0.002144	0.00212	26.72946	26.68696	0.6081377	0.668193	0.6058521	-0.06234089
0.010736	0.00012	39.28325	19.69174	0.5484957	0.4012021	0.4634237	0.06222162
0.000261	0.00026	35.87775	35.83876	0.1485913	0.0835557	0.144941	0.06138529

0.000806	0.00019	37.28327	30.93781	0.1615582	0.0759163	0.1332153	0.05729899
0.018839	0.01214	19.15727	17.24939	0.5615129	0.2594524	0.5039799	0.2445275
0.006026	4.70E-05	43.28331	22.19971	0.2042477	0.3447399	0.4138033	0.06906342
0.032821	0.01289	18.89826	14.83844	0.9258617	0.8394841	0.9007168	0.06123274
0.002006	0.00418	23.7854	26.97622	0.5872763	0.6508628	0.5867819	-0.06408079
0.000669	0.0021	26.78587	31.7485	0.6962721	0.7636082	0.6885799	-0.07502834
0.022453	0.0208	16.81941	16.48722	0.7987508	0.618358	0.8018014	0.1834435
0.03195	0.00449	23.4764	14.95534	0.7886224	0.625569	0.7126228	0.08705378
0.000368	0.00142	28.4653	34.34275	0.6957874	0.7517107	0.6806017	-0.07110896
0.00037	0.00122	29.12549	34.31962	0.5351647	0.6079067	0.5096474	-0.09825929
0.044404	0.03952	14.03155	13.52582	0.863799	0.719386	0.6055613	-0.1138248
0.032842	0.0108	19.66622	14.8357	0.105254	0.0496266	0.1017018	0.05207529
0.006092	0.00807	20.92984	22.15264	0.2027911	0.1106181	0.1977025	0.08708437
0.017348	0.01125	19.48802	17.60756	0.8272885	0.6975207	0.5887797	-0.1087411
0.002447	0.00031	35.05118	26.11344	0.7513602	0.6362168	0.7211864	0.08496962
0.016868	0.02726	15.64551	17.72938	0.8179188	0.8740836	0.8112061	-0.06287743
0.003366	0.00246	26.08708	24.72851	0.3996451	0.543138	0.4106201	-0.1325179
0.039784	0.04075	13.89834	14.00288	0.5573924	0.6330964	0.5574606	-0.07563584
0.045502	0.01036	19.8483	13.41967	0.8456959	0.7184429	0.8046392	0.08619632
0.012854	0.02162	16.65187	18.90946	0.5654823	0.7030983	0.5457097	-0.1573886
0.01569	0.02107	16.76427	18.04383	0.8190477	0.767915	0.8222076	0.05429261
0.040444	5.73E-05	42.41965	13.93145	0.8704424	0.7385611	0.7983867	0.05982563
0.019868	0.00105	29.79742	17.01844	0.8426779	0.7768596	0.6853592	-0.09150039
0.044086	0.029	15.376	13.55702	0.7115318	0.5717278	0.4599999	-0.1117279
0.017838	0.00938	20.27569	17.48664	0.0348025	0.1891235	0.0662699	-0.1228536
0.040517	7.03E-05	41.52975	13.92366	0.5437787	0.3572166	0.4273279	0.07011132
0.002159	0.00913	20.39723	26.65691	0.8076178	0.8621012	0.7882838	-0.07381736
0.028565	0.00914	20.39168	15.44164	0.8823995	0.6896694	0.57033	-0.1193394
0.019004	0.00187	27.28735	17.21157	0.0646083	0.3777989	0.5114596	0.1336607
0.00616	0.00787	21.04123	22.10393	0.081164	0.1648952	0.2560785	0.09118327
0.000605	0.00039	34.12338	32.17909	0.8216632	0.8771333	0.8187648	-0.05836842
0.00473	0.00031	35.12578	23.25159	0.3055591	0.1520614	0.2621152	0.1100537
0.008409	0.00866	20.62559	20.75266	0.5329436	0.6727669	0.528838	-0.1439289
0.0058	0.0377	14.23668	22.36576	0.9106338	0.8602975	0.7512632	-0.1090343
0.026042	0.00545	22.63508	15.84331	0.8386621	0.6560898	0.5491113	-0.1069785
0.018091	0.00738	21.32025	17.42538	0.8899275	0.7547653	0.8561729	0.1014077
0.006036	0.0087	20.60365	22.19227	0.2837404	0.1851893	0.1257515	-0.05943783
0.033103	0.04036	13.94071	14.80138	0.8937601	0.8189506	0.7037748	-0.1151758
0.010609	0.04281	13.68482	19.74339	0.4953104	0.5603279	0.4697187	-0.09060921
0.027094	2.81E-06	55.5146	15.67129	0.9010945	0.7953047	0.6878368	-0.1074679
0.001486	0.01086	19.64083	28.28127	0.8330603	0.8982667	0.8000082	-0.09825847
0.004992	0.00168	27.74491	23.0175	0.6503882	0.7167714	0.6640305	-0.05274091
0.040841	3.01E-05	45.21724	13.88907	0.8089866	0.5793162	0.4734663	-0.1058499
0.00639	0.00188	27.26079	21.94515	0.8483046	0.7546536	0.6664437	-0.08820987
7.61E-07	8.77E-06	50.57173	61.18572	0.8470751	0.9238073	0.8545612	-0.0692462
0.042001	0.03161	15.00138	13.7674	0.8828155	0.7535329	0.642125	-0.1114079
0.004704	0.00081	30.92966	23.27565	0.904462	0.8055908	0.7184348	-0.08715601
0.000435	0.00125	29.02704	33.61905	0.5356164	0.6096401	0.5233575	-0.0862826
0.015794	0.03094	15.09424	18.01501	0.7243188	0.7840275	0.7060564	-0.07797111
0.012728	0.01488	18.27481	18.9523	0.1783149	0.1161087	0.193512	0.07740332
0.028166	0.00509	22.929	15.50278	0.9231465	0.8161786	0.883021	0.06684241
0.027374	0.04239	13.72732	15.6266	0.5384215	0.6049387	0.5295451	-0.07539357
0.032313	0.01914	17.18091	14.9062	0.9050172	0.840914	0.8909597	0.05004566
0.001754	0.0011	29.57229	27.55863	0.3837749	0.1346188	0.3378084	0.2031896

0.003062	0.00556	22.54753	25.14052	0.5938694	0.7411467	0.5891877	-0.151959
2.76E-05	7.58E-05	41.20077	45.5981	0.1415047	0.0336504	0.1296389	0.09598851
0.019846	0.01114	19.53169	17.02319	0.878717	0.7560526	0.6621636	-0.09388901
0.049897	0.0006	32.20471	13.01926	0.7693687	0.5273672	0.6055283	0.0781611
0.006597	0.00355	24.49492	21.80638	0.2068994	0.129656	0.1962272	0.06657113
0.018075	0.02807	15.51794	17.42931	0.6694227	0.5976837	0.5187915	-0.07889221
0.022304	0.0193	17.14342	16.51627	0.1053897	0.161709	0.1067005	-0.05500845
0.003365	4.68E-07	63.30113	24.73055	0.8255419	0.5523163	0.4098917	-0.1424246
0.007396	0.00357	24.4769	21.31025	0.818813	0.6932735	0.7864507	0.09317724
0.040005	0.00018	37.32893	13.97891	0.8371887	0.7652887	0.6910574	-0.07423121
0.002674	0.00229	26.39981	25.72801	0.6808825	0.8070867	0.6840872	-0.1229995
0.011064	0.00524	22.80785	19.56097	0.2131555	0.1298834	0.2030876	0.07320421
0.020318	0.01492	18.26247	16.92127	0.1350441	0.0553989	0.1305978	0.07519893
0.024347	0.02261	16.45695	16.13559	0.894434	0.815765	0.8913933	0.07562826
8.02E-05	2.93E-05	45.33218	40.96021	0.5860833	0.7182648	0.6016706	-0.1165942
0.048774	0.0261	15.83352	13.11811	0.9011531	0.8385369	0.8886226	0.05008574
0.033948	0.00316	25.00749	14.69188	0.1131457	0.2857597	0.3800986	0.09433889
0.036071	0.00048	33.14773	14.42838	0.203154	0.4015337	0.3491102	-0.05242346
0.000183	0.00049	33.07386	37.36792	0.2419171	0.1650255	0.2462603	0.08123477
0.006507	0.01125	19.48957	21.86625	0.6834444	0.8281066	0.6855677	-0.1425389
0.010368	0.0283	15.48238	19.84322	0.5710165	0.4784143	0.4257888	-0.05262549
0.037411	0.04976	13.03107	14.27	0.8726085	0.7669289	0.6415322	-0.1253967
0.022036	0.00061	32.11687	16.56862	0.8436483	0.7836762	0.7268873	-0.0567889
0.022369	0.01416	18.48955	16.5036	0.8220587	0.7232378	0.8075284	0.08429066
0.030407	0.00459	23.38258	15.17029	0.1155874	0.1895321	0.257466	0.067934
0.041003	0.02186	16.6029	13.87186	0.7761365	0.8927525	0.8078525	-0.08490001
0.019129	0.00145	28.39153	17.18301	0.8489652	0.572814	0.4485055	-0.1243085
0.000314	0.00012	39.20293	35.0331	0.1507808	0.0650232	0.1437709	0.07874769
0.003693	0.00293	25.32907	24.326	0.259526	0.1995874	0.2497625	0.05017507
0.009445	0.00407	23.90442	20.24786	0.7561982	0.6295026	0.7314262	0.1019236
0.024177	0.02298	16.38701	16.16594	0.8218148	0.6993464	0.8197559	0.1204094
0.043003	0.01756	17.55372	13.66506	0.2590319	0.1871155	0.2430685	0.05595299
0.001943	0.00219	26.58747	27.11492	0.6145728	0.7806823	0.606834	-0.1738483
0.020439	0.02699	15.68861	16.8954	0.4508183	0.5710412	0.4367183	-0.134323
0.021379	0.00169	27.71271	16.70022	0.0478844	0.2044428	0.2845716	0.08012875
0.021912	0.02754	15.59994	16.59312	0.2355795	0.1510098	0.2370297	0.08601993
0.009934	0.00037	34.2736	20.02881	0.1795159	0.6129436	0.3847303	-0.2282133
0.000614	1.21E-05	49.18044	32.11929	0.3620116	0.6598678	0.798813	0.1389451
0.000982	0.04917	13.0828	30.07684	0.3457522	0.2854818	0.4365356	0.1510538
9.67E-06	2.10E-06	56.78735	50.14533	0.8354411	0.9289954	0.8538958	-0.07509955
0.02417	0.00796	20.99303	16.16727	0.2201538	0.3295031	0.2470085	-0.08249461
5.38E-05	0.00013	38.79266	42.69277	0.1281186	0.0318591	0.1164651	0.084606
0.018503	0.00549	22.60143	17.32758	0.8457454	0.7265113	0.8182419	0.09173059
0.004236	0.00048	33.15232	23.73051	0.9230188	0.7500657	0.6375194	-0.1125463
0.010016	0.00636	21.96251	19.99298	0.1965738	0.0997643	0.1807474	0.08098307
0.012752	0.02351	16.28693	18.94411	0.57793	0.6653521	0.560914	-0.1044381
0.046334	0.00016	37.99386	13.34099	0.4793662	0.7685771	0.8561266	0.08754956
0.024378	0.01002	19.99275	16.13002	0.8195922	0.7185197	0.7972846	0.07876495
0.010163	0.01176	19.29474	19.92966	0.0644822	0.1276106	0.2469891	0.1193785
0.001027	0.00277	25.56942	29.88399	0.5785108	0.6435521	0.5589336	-0.08461855
0.029447	0.00394	24.05039	15.30955	0.8313062	0.7046623	0.6236787	-0.08098356
0.04521	0.03035	15.17903	13.4477	0.609529	0.6865336	0.6155281	-0.07100546
0.008324	0.01371	18.62962	20.79689	0.6060489	0.7378795	0.5912721	-0.1466074
0.02774	1.07E-05	49.71407	15.56889	0.7834216	0.6312069	0.690996	0.05978917

0.01987	4.36E-05	43.60504	17.01799	0.6279991	0.4523112	0.5327083	0.08039711
0.02421	0.0185	17.32875	16.16014	0.6475211	0.9290717	0.8278275	-0.1012442
0.001214	0.0058	22.36615	29.15784	0.7547219	0.8120375	0.7344471	-0.07759035
0.00964	0.00719	21.43102	20.15914	0.3722083	0.2913115	0.370791	0.0794795
0.049146	0.00435	23.61701	13.08515	0.8777196	0.785601	0.7289799	-0.05662103
0.000359	0.00074	31.28567	34.44545	0.7009988	0.9102299	0.7525015	-0.1577284
0.038404	0.0222	16.53735	14.15623	0.4769358	0.3892325	0.4565905	0.06735807
0.004191	0.00344	24.63996	23.77692	0.8840886	0.7567544	0.6282563	-0.1284981
0.012688	0.01095	19.60464	18.96621	0.8986647	0.8390753	0.9003876	0.06131228
0.025869	0.03386	14.70308	15.87228	0.7394949	0.6365603	0.5249727	-0.1115877
0.009239	0.01861	17.30194	20.34389	0.8507096	0.9175007	0.8449169	-0.07258373
0.01115	0.01755	17.55603	19.52715	0.6360096	0.7457954	0.630964	-0.1148314
0.000786	0.00031	35.14998	31.04813	0.8447765	0.7199205	0.8264429	0.1065224
0.035764	0.0168	17.74608	14.4656	0.8986394	0.8272485	0.8862812	0.05903271
0.00646	0.00511	22.91986	21.89739	0.5135511	0.4374656	0.5054064	0.06794076
0.048842	0.00507	22.95051	13.11209	0.8369144	0.6345218	0.5180312	-0.1164906
0.044539	0.00857	20.67188	13.51262	0.7960589	0.4847236	0.6772314	0.1925078
0.010975	0.00573	22.41942	19.59611	0.8087382	0.6721246	0.538701	-0.1334236
0.032041	0.00022	36.54633	14.94291	0.2687207	0.4991452	0.5962757	0.09713051
0.015661	0.00685	21.64016	18.05194	0.8410084	0.9261793	0.8545471	-0.07163224
0.005326	0.0018	27.45374	22.73567	0.8424149	0.6604913	0.4968435	-0.1636478
0.014914	0.00467	23.31056	18.26404	0.8289114	0.5909459	0.750821	0.1598751
0.032459	0.02641	15.78251	14.88669	0.6333211	0.3264993	0.6139601	0.2874608
0.023456	0.00189	27.22684	16.29738	0.8139133	0.7214343	0.6475312	-0.07390314
0.000986	0.00064	31.92204	30.06304	0.9092768	0.8507897	0.9085356	0.05774594
0.001436	3.05E-05	45.15071	28.42761	0.8863037	0.7588218	0.8280842	0.06926239
0.043798	1.34E-05	48.72446	13.58541	0.0977597	0.2976249	0.2303035	-0.06732133
0.020842	0.01108	19.55554	16.81054	0.3477473	0.2237485	0.3140657	0.09031717
0.025016	0.02924	15.33994	16.0179	0.670609	0.5992588	0.6716818	0.07242294
0.018502	0.038	14.20251	17.32792	0.6518661	0.7167202	0.6385264	-0.07819369
0.000229	4.96E-05	43.04877	36.40617	0.750928	0.8449679	0.7668059	-0.07816194
0.013206	0.008	20.96926	18.7922	0.8430419	0.7732008	0.8375992	0.06439836
0.049765	8.10E-06	50.91725	13.03074	0.6603525	0.3815772	0.4534325	0.07185534
0.00035	0.00025	35.96	34.56432	0.1178625	0.0546517	0.1153657	0.06071403
0.032374	0.04256	13.71025	14.89801	0.8866506	0.7984308	0.8913479	0.0929171
0.035985	0.04715	13.26516	14.43874	0.5572284	0.71573	0.5448267	-0.1709032
0.000392	1.95E-06	57.10202	34.07046	0.7646075	0.8725686	0.7824219	-0.09014669
0.033933	0.04772	13.21293	14.69376	0.8445478	0.7327053	0.8583629	0.1256576
0.014397	3.83E-05	44.16901	18.4173	0.87005	0.6678068	0.5653136	-0.1024933
0.000261	0.00016	38.03911	35.82785	0.8311961	0.9021856	0.8348782	-0.06730744
0.016078	0.02214	16.54881	17.93763	0.4661797	0.6360086	0.4609823	-0.1750263
0.027257	0.0004	34.01553	15.64529	0.3547902	0.2030005	0.1437706	-0.05922992
0.000113	1.87E-05	47.27721	39.4819	0.7267667	0.7953326	0.7362154	-0.05911725
0.000753	0.00023	36.37666	31.22963	0.1846784	0.0577007	0.1551229	0.09742218
0.044338	0.00411	23.8665	13.53223	0.2674127	0.4431519	0.5401636	0.09701166
0.003329	2.37E-05	46.26136	24.77651	0.8330436	0.6992315	0.5619903	-0.1372412
0.043532	6.14E-05	42.11551	13.61194	0.6710019	0.3538192	0.442093	0.08827373
0.021169	0.0304	15.17075	16.7429	0.857891	0.7896287	0.8621517	0.07252306
0.003588	0.01354	18.68451	24.45169	0.8796928	0.7874331	0.6756938	-0.1117393
7.59E-06	0.00012	39.23407	51.19528	0.6198539	0.7004072	0.6216748	-0.07873248
0.023569	0.00029	35.4386	16.27657	0.1095074	0.2237486	0.3121277	0.08837909
0.006361	8.34E-05	40.79017	21.96446	0.7430539	0.589788	0.6678626	0.07807456
0.0491	0.00125	29.02865	13.08923	0.8579334	0.6308473	0.5642951	-0.06655227
0.000665	0.00083	30.82393	31.77394	0.2378621	0.083195	0.1945205	0.1113256



0.012725	0.01403	18.53019	18.9534	0.5634921	0.5010122	0.5658169	0.06480474
0.021818	0.04117	13.85451	16.61177	0.8872927	0.835519	0.8990089	0.06348994
0.019835	0.00589	22.29988	17.02562	0.4150078	0.4929674	0.4350257	-0.05794171
0.031609	0.02742	15.61935	15.00188	0.15811	0.0997234	0.1561102	0.05638671
0.001653	0.00938	20.27797	27.81777	0.8028092	0.860699	0.7792485	-0.08145045
0.017655	0.00371	24.30259	17.53131	0.6868976	0.5390518	0.6368214	0.09776965
0.020328	0.03262	14.86576	16.91914	0.2635355	0.1455141	0.2823889	0.1368748
0.042437	0.03831	14.16691	13.7226	0.6920409	0.596167	0.6943383	0.09817126
0.023392	0.0297	15.27249	16.30942	0.7639374	0.8175969	0.7568353	-0.06076151
3.29E-05	0.00029	35.33202	44.82528	0.4579819	0.6134418	0.4449956	-0.1684461
0.032592	0.02842	15.46446	14.86886	0.8883482	0.7934982	0.6764447	-0.1170535
0.006175	0.0101	19.9585	22.0936	0.6724849	0.8113343	0.6520689	-0.1592653
7.38E-05	6.92E-05	41.59811	41.31849	0.7687084	0.8822737	0.7484162	-0.1338574
0.007822	0.0039	24.09269	21.06661	0.3937805	0.274668	0.3839608	0.1092928
0.041178	0.02763	15.58668	13.85335	0.2216528	0.1581491	0.2131222	0.05497304
0.011701	0.00796	20.99312	19.31776	0.2757008	0.1342992	0.2636958	0.1293966
0.033627	0.02514	15.99643	14.73317	0.1622883	0.0979716	0.1543435	0.05637198
0.026621	0.00466	23.3142	15.74768	0.7449759	0.6054098	0.5131645	-0.09224523
0.021322	0.03959	14.02443	16.71163	0.1637941	0.2297362	0.3405381	0.1108019
0.012297	0.03698	14.32056	19.10198	0.3420021	0.2607712	0.1469102	-0.1138609
4.21E-05	0.00012	39.38736	43.75878	0.541159	0.6253821	0.5251737	-0.1002085
0.006356	0.00813	20.89872	21.96837	0.6106701	0.7333762	0.618479	-0.1148973
0.006682	0.00045	33.51189	21.75109	0.8583479	0.7515032	0.6475443	-0.1039589
0.014446	0.0035	24.56373	18.40263	0.0584265	0.1692597	0.2353816	0.06612191
0.000707	9.51E-05	40.21924	31.50359	0.8125239	0.8969949	0.8269284	-0.07006656
0.01944	0.02996	15.23467	17.11308	0.4596368	0.5386789	0.4485351	-0.09014384
0.011321	0.00071	31.46023	19.46134	0.9076856	0.7791662	0.8393392	0.06017305
0.019167	0.00065	31.85151	17.17448	0.31981	0.485984	0.5635737	0.07758963
0.009169	0.02771	15.57328	20.37657	0.2559536	0.3331009	0.4279645	0.09486355
0.004925	2.47E-05	46.06676	23.07577	0.1335243	0.522464	0.6977674	0.1753034
0.044713	0.02292	16.39849	13.49568	0.8945202	0.6084623	0.8310962	0.2226339
0.041116	0.02992	15.23995	13.8599	0.8521079	0.7883927	0.8452647	0.05687199
0.016267	0.01232	19.09484	17.88695	0.8763257	0.8036928	0.8709533	0.06726055
0.00314	0.00257	25.89848	25.03097	0.7564893	0.8796902	0.7671631	-0.1125271
0.01114	0.00593	22.27287	19.53119	0.8597185	0.7896191	0.8506172	0.06099812
5.97E-05	0.00019	37.32797	42.24017	0.9112713	0.964121	0.9089696	-0.05515132
0.026205	0.01987	17.01819	15.81613	0.0828418	0.1561166	0.0891351	-0.0669815
0.000104	0.00015	38.36464	39.83772	0.5838448	0.7718343	0.60763	-0.1642043
0.006433	0.00632	21.98982	21.916	0.5099006	0.6711264	0.503742	-0.1673844
0.000394	8.15E-05	40.88837	34.04616	0.2000397	0.1002833	0.1899316	0.0896484
1.33E-05	0.00104	29.83398	48.74825	0.6546565	0.735931	0.6168875	-0.1190435
0.03022	0.00493	23.07277	15.19708	0.8224413	0.734621	0.6738191	-0.06080194
0.047501	0.00068	31.64913	13.23296	0.8820875	0.8081887	0.7402158	-0.06797285
0.0054	0.00532	22.73854	22.67642	0.1232449	0.0714695	0.1477797	0.07631023
0.003526	0.01087	19.63687	24.52747	0.7055255	0.7836715	0.6871191	-0.09655236
0.038946	0.024	16.19836	14.09533	0.9172297	0.8277093	0.9060311	0.07832178
0.005968	0.00097	30.12388	22.24176	0.8166574	0.7102792	0.7782928	0.06801354
0.012661	0.03177	14.97982	18.97528	0.81479	0.718906	0.5929198	-0.1259862
0.000549	0.00031	35.058	32.60097	0.1698322	0.0853257	0.1478927	0.06256691
0.000108	0.00012	39.31737	39.6666	0.1621096	0.0561217	0.1519623	0.09584058
0.015776	0.03883	14.10811	18.02011	0.8194938	0.703119	0.5575347	-0.1455843
0.003441	0.00512	22.90437	24.6329	0.4480054	0.5260555	0.4577588	-0.06829664
0.001826	1.63E-05	47.88968	27.38507	0.9045197	0.6698833	0.7945188	0.1246356
0.013933	0.01	19.99969	18.55951	0.901172	0.7537253	0.8804755	0.1267501

0.001264	1.31E-06	58.81881	28.9825	0.1456848	0.5137281	0.5739081	0.06017996
0.008075	0.00024	36.22871	20.92834	0.8109161	0.7292027	0.7852772	0.05607445
0.045222	5.33E-05	42.73225	13.44655	0.7116398	0.494831	0.5593472	0.06451613
0.008645	0.0212	16.73725	20.63236	0.03811	0.142261	0.2972933	0.1550324
0.010032	0.00597	22.24325	19.98621	0.8528824	0.7942805	0.8472599	0.05297941
0.021799	0.01711	17.66798	16.61556	0.5380185	0.6627309	0.5447056	-0.1180252
0.000391	0.00032	35.00911	34.07686	0.8385427	0.9387398	0.8537769	-0.08496295
0.031022	0.01785	17.48393	15.08332	0.8339949	0.7293312	0.6404805	-0.08885076
0.016111	0.00176	27.53864	17.92873	0.8192666	0.6497537	0.7534319	0.1036782
4.89E-05	4.71E-06	53.26587	43.10753	0.0807895	0.026129	0.0848162	0.05868714
0.03958	1.18E-07	69.27651	14.02525	0.3009121	0.765775	0.8205374	0.05476248
0.005576	0.0067	21.74162	22.5364	0.4381402	0.5465158	0.4376579	-0.1088579
0.011021	0.00025	35.99599	19.57788	0.8931462	0.7089824	0.6054211	-0.1035613
9.12E-05	7.45E-05	41.27876	40.39856	0.5911002	0.7308369	0.5905428	-0.1402942
0.006349	1.92E-05	47.17223	21.97286	0.3669559	0.5342744	0.5977567	0.06348234
0.00022	0.00058	32.37764	36.5788	0.7933871	0.8672046	0.7729802	-0.09422436
0.000569	0.00158	28.01323	32.44937	0.4863275	0.4187948	0.4937601	0.07496528
0.005808	0.00806	20.93721	22.3598	0.5026909	0.5800026	0.4985115	-0.08149114
0.002258	0.00281	25.50829	26.46248	0.5706636	0.7185192	0.5749882	-0.143531
0.000486	0.00063	31.99984	33.13419	0.0957385	0.1522261	0.0936166	-0.05860956
0.007387	0.00403	23.95054	21.31527	0.790395	0.7145855	0.7805827	0.06599724
0.041025	0.00688	21.62324	13.8695	0.8338767	0.6930828	0.7807526	0.0876698
0.000522	0.00018	37.56423	32.81984	0.2667614	0.1188585	0.2299258	0.1110674
0.022185	0.01938	17.1273	16.53939	0.3027542	0.2453723	0.3036615	0.05828923
0.016733	0.0309	15.09977	17.76436	0.8285529	0.9008905	0.799278	-0.1016126
0.028592	0.00273	25.63336	15.43756	0.0799923	0.134596	0.2141	0.07950399
0.038035	0.03027	15.1893	14.19821	0.8841112	0.9428939	0.8894473	-0.05344658
0.000879	0.00456	23.41325	30.56161	0.1315385	0.0646387	0.1470407	0.08240199
0.014773	0.001	30.0125	18.30522	0.7921456	0.6761317	0.5769275	-0.0992042
7.39E-06	5.55E-06	52.55931	51.31174	0.6190885	0.8020213	0.6361555	-0.1658657
0.039199	0.03611	14.42391	14.06722	0.9390572	0.8058258	0.6617534	-0.1440724
0.002672	0.00012	39.25906	25.73184	0.2116622	0.5620257	0.7580184	0.1959927
0.039062	0.0038	24.20119	14.0825	0.8793104	0.6020512	0.4849278	-0.1171234
0.039466	0.0009	30.43798	14.03781	0.6376973	0.436779	0.5186717	0.08189269
0.027577	0.01883	17.25189	15.5946	0.3624828	0.5516336	0.6595938	0.1079602
0.032082	0.00911	20.40698	14.93743	0.9004626	0.7032869	0.5720918	-0.1311951
0.040307	0.0103	19.87209	13.94623	0.1196681	0.207709	0.3277116	0.1200027
0.000987	8.17E-05	40.87776	30.0563	0.9248066	0.7570623	0.8712871	0.1142248
0.022584	0.01039	19.83585	16.46202	0.8547233	0.7796159	0.8353698	0.05575395
0.027096	0.03472	14.59426	15.67096	0.5603261	0.6297185	0.5475577	-0.08216074
0.01805	0.00567	22.4619	17.43527	0.8576777	0.7319877	0.8291608	0.09717313
0.034728	0.00104	29.81444	14.5932	0.7806658	0.6079526	0.6903161	0.08236352
0.001646	0.00097	30.11129	27.83647	0.7845032	0.6940012	0.7777678	0.08376667
0.03415	0.02307	16.3695	14.66608	0.7764702	0.58732	0.4189061	-0.1684139
0.000154	0.00012	39.36189	38.12345	0.5247262	0.5850061	0.523307	-0.06169903
0.049079	0.00157	28.05349	13.09104	0.976498	0.5887921	0.4805211	-0.108271
0.001139	0.00151	28.22179	29.43357	0.5825169	0.653695	0.591615	-0.06207999
0.03656	0.0026	25.85402	14.36989	0.186455	0.0717068	0.1450614	0.07335465
0.001383	0.00305	25.15105	28.59135	0.6810746	0.7611712	0.6805843	-0.080587
0.009676	0.00152	28.18747	20.14285	0.2275597	0.1386387	0.1994546	0.06081581
0.001402	0.00136	28.67699	28.53121	0.2070945	0.1349611	0.2019091	0.06694795
0.007068	0.00626	22.03107	21.50706	0.8144943	0.7402719	0.8138714	0.07359961
0.01407	0.01233	19.09153	18.51706	0.7899956	0.7151719	0.7899175	0.07474554
0.005143	0.01979	17.0357	22.88781	0.5899703	0.6854497	0.5694577	-0.1159921

0.00013	0.00031	35.0885	38.85512	0.6619658	0.7969208	0.6694248	-0.1274961
0.013982	0.0033	24.81688	18.54435	0.2326488	0.4094003	0.5253547	0.1159544
0.008383	0.00758	21.20604	20.76604	0.0391682	0.1056108	0.2330001	0.1273893
0.018011	0.02216	16.54482	17.44456	0.6362209	0.7107081	0.6326041	-0.07810404
0.013197	0.01092	19.61603	18.79532	0.0901788	0.1492109	0.0954165	-0.05379438
0.003195	0.00077	31.13374	24.95508	0.298836	0.1298641	0.2695051	0.1396411
4.56E-06	8.46E-08	70.72832	53.41345	0.3447772	0.1141387	0.3330896	0.2189509
0.020427	0.01581	18.01035	16.89806	0.1829438	0.1226997	0.1787552	0.05605554
0.025539	0.01933	17.13866	15.9279	0.7663866	0.8440997	0.7706954	-0.07340422
0.005613	0.034	14.68539	22.50842	0.2093459	0.1450534	0.2459491	0.1008957
0.001333	0.00033	34.8619	28.75049	0.5311461	0.7451378	0.6316344	-0.1135033
0.022306	0.02602	15.84709	16.51578	0.2052033	0.1435393	0.2066633	0.06312402
0.011019	2.62E-06	55.81702	19.5786	0.8045478	0.6687753	0.7206497	0.05187446
0.003003	0.02815	15.50482	25.2251	0.6904089	0.7512212	0.6413422	-0.1098789
0.00474	0.00391	24.07766	23.24215	0.3777423	0.4331782	0.380943	-0.05223518
0.007575	0.02549	15.93552	21.20641	0.7326627	0.6190525	0.4673592	-0.1516933
0.006497	0.00305	25.15126	21.87269	0.7663399	0.6448308	0.5405166	-0.1043143
0.040673	0.00162	27.8952	13.90691	0.1197366	0.2239827	0.1665913	-0.05739141
0.009367	0.00904	20.44005	20.28401	0.3383101	0.1352131	0.3271654	0.1919523
0.012378	0.02143	16.6891	19.07351	0.4131931	0.5099187	0.4011667	-0.108752
0.043538	0.02237	16.50276	13.61131	0.8658861	0.7816492	0.8463625	0.06471331
0.017331	0.0043	23.66596	17.61182	0.8325247	0.7016673	0.801163	0.09949567
0.000754	0.0025	26.01428	31.22389	0.7136725	0.7839016	0.6287794	-0.1551222
0.017288	0.00269	25.70033	17.62249	0.7824489	0.6623226	0.7364237	0.07410109
0.000763	0.00244	26.13433	31.17532	0.6830305	0.7850747	0.6757904	-0.1092842
0.049688	0.02644	15.77786	13.03747	0.7305701	0.6018547	0.7064084	0.1045537
0.002959	0.00244	26.12419	25.28879	0.7291701	0.5773988	0.721276	0.1438772
0.030977	0.00704	21.52692	15.08966	0.7520819	0.8832723	0.7936189	-0.08965345
0.010299	0.00104	29.83674	19.87196	0.5982156	0.8612137	0.777159	-0.08405464
0.012557	0.01207	19.18292	19.01126	0.4581974	0.5715237	0.4726009	-0.09892277
0.044052	0.03761	14.24712	13.56035	0.0816208	0.1508229	0.0867197	-0.06410325
0.001562	0.00123	29.08518	28.06274	0.6870366	0.8060344	0.6868622	-0.1191721
0.000837	0.00108	29.66879	30.77305	0.6994005	0.7915314	0.6854767	-0.1060546
0.009348	0.00198	27.03003	20.29276	0.8716881	0.6292255	0.4919324	-0.1372931
0.0081	0.00069	31.6196	20.91518	0.8020629	0.5951842	0.4479708	-0.1472134
0.038382	0.00161	27.94465	14.15869	0.6722295	0.4245154	0.522848	0.09833259
0.002662	0.00045	33.43464	25.74861	0.2343824	0.0906593	0.1891792	0.09851988
0.038936	0.0052	22.84168	14.09654	0.2192972	0.1335086	0.1867779	0.05326932
0.002725	0.00862	20.64606	25.64561	0.8807327	0.9386056	0.8379834	-0.1006222
0.040743	0.00395	24.0354	13.89942	0.8485411	0.7426695	0.6683922	-0.07427733
0.025651	0.02028	16.93026	15.90897	0.7089204	0.8107978	0.7193707	-0.0914271
4.65E-05	1.54E-05	48.13634	43.32397	0.7894886	0.8911303	0.8084791	-0.08265118
0.012072	0.01251	19.02667	19.18206	0.2228089	0.1484253	0.223842	0.07541677
0.004131	0.01583	18.00644	23.83979	0.7330757	0.8162916	0.7061211	-0.1101704
0.027518	0.00191	27.19381	15.60376	0.7464462	0.675068	0.6188504	-0.0562176
0.047442	0.0053	22.75827	13.23834	0.7687767	0.6289614	0.701643	0.07268161
0.000591	0.00075	31.2454	32.28716	0.8222527	0.920636	0.8262434	-0.09439259
0.012117	0.03632	14.39835	19.16603	0.7350658	0.8239267	0.7058647	-0.118062
0.000386	0.0256	15.91791	34.13648	0.4071239	0.4697896	0.6098531	0.1400635
0.042144	0.01271	18.95741	13.7526	0.3579053	0.2300817	0.308034	0.07795232
0.000638	0.00235	26.2858	31.95252	0.6352077	0.6910142	0.6213767	-0.06963758
0.013229	0.01856	17.31341	18.78488	0.1885107	0.3023818	0.1888904	-0.1134913
0.002202	9.24E-08	70.34435	26.57094	0.0838644	0.610701	0.7354278	0.1247268
0.038531	0.01995	16.99991	14.14188	0.8687431	0.7893836	0.8536725	0.06428884

0.027551	6.05E-05	42.18094	15.59858	0.8189136	0.7381493	0.6639064	-0.0742429
0.001256	0.00179	27.47279	29.00839	0.5055454	0.5730626	0.4756897	-0.09737287
0.031492	0.04036	13.94068	15.01793	0.9022475	0.8027475	0.9098331	0.1070857
0.01951	0.01603	17.95129	17.09753	0.1866199	0.4037916	0.5799778	0.1761862
0.007381	0.00382	24.17842	21.31909	0.8107656	0.7310498	0.8015469	0.07049709
0.022762	1.32E-05	48.80776	16.42784	0.0853636	0.2631751	0.3569428	0.09376774
0.01693	0.02907	15.36541	17.71341	0.115663	0.2529423	0.4154466	0.1625043
0.023854	0.01666	17.78294	16.2243	0.7886892	0.8669025	0.7922099	-0.07469264
0.001485	0.0003	35.22257	28.2819	0.7047858	0.8183616	0.7189385	-0.09942313
0.003293	0.00834	20.78778	24.82416	0.7600157	0.8644859	0.7526419	-0.111844
0.005197	0.00446	23.50782	22.84221	0.9134997	0.7530618	0.6009733	-0.1520885
0.002997	0.00355	24.49783	25.23376	0.598147	0.8556695	0.6266008	-0.2290687
0.012749	0.00177	27.5275	18.94518	0.7951394	0.6834008	0.7564434	0.07304268
0.033074	0.00171	27.66077	14.80516	0.0630624	0.3694391	0.5016646	0.1322255
0.001968	1.70E-05	47.69046	27.0607	0.4572929	0.6659793	0.7524969	0.08651758
0.033879	0.00028	35.58368	14.70073	0.2882429	0.5060068	0.5852853	0.0792785
0.047792	1.64E-05	47.84621	13.20649	0.1427492	0.3546502	0.4136199	0.05896971
0.021153	0.00274	25.62893	16.74633	0.825554	0.6916986	0.6076142	-0.08408432
0.003264	0.0022	26.57273	24.86186	0.4681421	0.3870127	0.4884419	0.1014292
0.010475	0.00263	25.80214	19.79833	0.8477834	0.9191403	0.8631374	-0.05600287
0.035795	0.00396	24.02653	14.46177	0.851641	0.6945851	0.7858462	0.09126111
0.026893	0.04083	13.88978	15.7036	0.6714908	0.4412379	0.7089468	0.2677089
0.041653	0.0152	18.18021	13.80358	0.8106684	0.714725	0.7816	0.06687503
0.008954	0.00428	23.68965	20.47971	0.8132877	0.6876782	0.5893143	-0.09836391
0.012507	0.0015	28.23357	19.02853	0.8182381	0.7000285	0.5904032	-0.1096253
0.016012	0.01208	19.17773	17.95546	0.9065461	0.8125928	0.8943682	0.08177539
0.031642	0.01406	18.52138	14.99731	0.7551393	0.8346453	0.7770967	-0.05754855
0.027052	0.01022	19.90391	15.67795	0.8302547	0.7433728	0.6641527	-0.07922009
0.002967	0.00541	22.66612	25.27755	0.4703414	0.6003778	0.4591323	-0.1412455
0.034788	0.00352	24.53741	14.58576	0.1172816	0.2873223	0.2068815	-0.08044078
0.017654	0.01729	17.62325	17.53168	0.1707108	0.1114214	0.1676815	0.05626003
0.035051	0.0058	22.36823	14.55303	0.8431312	0.7435183	0.6452387	-0.0982796
0.017115	0.01973	17.04877	17.66632	0.324605	0.4153038	0.3199034	-0.09540041
0.030875	0.01904	17.20226	15.10398	0.9034503	0.7859208	0.6815301	-0.1043907
0.002611	3.14E-06	55.03272	25.83151	0.2074264	0.7353699	0.7908094	0.05543947
0.028095	5.54E-07	62.56335	15.51376	0.0933611	0.2981978	0.4055029	0.1073051
0.005073	0.00298	25.2601	22.94721	0.8692653	0.9442999	0.8909036	-0.05339637
0.015245	9.69E-05	40.13757	18.1688	0.1524031	0.3870777	0.4766646	0.08958685
0.043538	0.04692	13.28682	13.61131	0.8641372	0.6741557	0.869233	0.1950773
0.036796	0.00501	22.99782	14.34194	0.7978597	0.6761782	0.6046143	-0.07156396
0.038186	0.01077	19.6786	14.18094	0.8629339	0.7265089	0.6422285	-0.08428037
0.006421	0.01796	17.45649	21.92405	0.4504906	0.523101	0.4222045	-0.1008964
0.014052	2.06E-05	46.85841	18.5226	0.863844	0.7014903	0.7579914	0.0565011
0.003395	0.0044	23.5607	24.69157	0.7833526	0.9062927	0.7794118	-0.126881
0.001673	0.0008	30.96786	27.76627	0.8386863	0.9392325	0.8429013	-0.09633123
0.017218	0.01357	18.67318	17.64019	0.6488464	0.7521157	0.6611327	-0.09098303
0.039743	0.03087	15.10425	14.00736	0.5818631	0.7068976	0.5933211	-0.1135766
0.038865	0.0081	20.91261	14.10441	0.866204	0.5926342	0.7474057	0.1547715
0.037412	0.00896	20.47495	14.26995	0.8694502	0.7195553	0.8093319	0.08977661
0.003499	0.00035	34.58078	24.56059	0.1654038	0.0693736	0.1328645	0.06349093
0.000181	0.00015	38.14353	37.42202	0.1740845	0.061603	0.1616194	0.1000164
0.003667	0.00164	27.84272	24.35681	0.6984411	0.5817499	0.4873178	-0.09443209
0.009575	1.74E-05	47.58936	20.18858	0.2014603	0.1196625	0.1743577	0.05469517
5.79E-05	8.10E-07	60.915	42.37362	0.2640899	0.4558647	0.5538959	0.09803118

0.040293	0.02747	15.6109	13.9477	0.1879098	0.1171935	0.1770521	0.05985865
0.000131	0.00348	24.59002	38.81492	0.0684823	0.2883602	0.5758016	0.2874414
0.0049	0.00101	29.96198	23.09795	0.6212302	0.7285218	0.6144502	-0.1140716
0.026609	0.01912	17.18523	15.74967	0.6317278	0.7650188	0.6487396	-0.1162791
0.02999	0.02871	15.42038	15.23029	0.7030969	0.7607201	0.6807294	-0.07999067
0.027061	0.03246	14.88709	15.67661	0.1603226	0.0993885	0.163484	0.06409556
0.003943	0.00066	31.83326	24.04126	0.1591552	0.0822189	0.137952	0.05573304
0.027814	0.00101	29.97673	15.55741	0.2211677	0.4532504	0.6201414	0.166891
0.048804	0.03743	14.26751	13.11542	0.9102704	0.8457183	0.9026456	0.0569274
0.011492	0.01247	19.04	19.39601	0.5891308	0.67891	0.5836076	-0.0953024
0.018262	0.02497	16.02601	17.38454	0.8408891	0.901588	0.8317084	-0.06987961
0.009918	0.00073	31.35353	20.03563	0.8759752	0.7679497	0.6439202	-0.1240295
0.02019	0.00095	30.23503	16.94853	0.8633991	0.6482129	0.7439253	0.09571242
0.037379	1.01E-05	49.97411	14.2737	0.3980116	0.7484761	0.8166625	0.06818637
0.015665	0.01313	18.81858	18.05063	0.7928175	0.7194989	0.6511039	-0.06839509
0.016561	0.00018	37.45378	17.80919	0.9045275	0.7620161	0.8230763	0.06106023
0.027798	0.00956	20.19499	15.5599	0.7909188	0.7117246	0.767682	0.05595747
0.036709	0.04012	13.96596	14.35229	0.3747475	0.4849367	0.3996115	-0.08532521
0.029679	0.01291	18.89064	15.27552	0.8634169	0.7734706	0.8453521	0.07188146
0.036051	0.0168	17.7477	14.43083	0.2188764	0.1413477	0.2021894	0.06084176
0.013341	0.03483	14.58049	18.74821	0.849146	0.7945845	0.709883	-0.08470152
0.017125	0.01191	19.24035	17.66358	0.8700991	0.9363928	0.8712029	-0.06518983
0.000528	0.0011	29.59486	32.77395	0.0429414	0.1095078	0.0319177	-0.07759015
0.033461	0.01824	17.3903	14.75463	0.4418646	0.3276636	0.4222419	0.09457836
0.045405	0.00055	32.6044	13.42894	0.1325524	0.3697523	0.4582285	0.08847621
0.003909	0.01513	18.20038	24.07934	0.7646101	0.8524979	0.7414922	-0.1110057
0.047343	6.12E-05	42.13279	13.24747	0.2845045	0.5447812	0.6185084	0.07372718
0.044591	0.02459	16.09266	13.5075	0.8974069	0.6794235	0.8477007	0.1682772
0.041158	0.01208	19.17816	13.8555	0.8215868	0.8801668	0.7725136	-0.1076532
0.04573	0.01398	18.54459	13.39799	0.8419542	0.7537159	0.8175128	0.06379686
0.017164	0.00469	23.29116	17.65392	0.8348559	0.6617779	0.7945945	0.1328166
0.030982	0.00379	24.21717	15.08887	0.8273106	0.7143853	0.6021227	-0.1122627
0.008436	0.00413	23.83807	20.7385	0.16883	0.3857996	0.5071067	0.1213072
0.008223	0.00226	26.46525	20.84962	0.8319545	0.7603171	0.6648539	-0.09546333
0.048988	0.02084	16.81082	13.09912	0.3706547	0.2806382	0.3477004	0.06706225
0.04501	0.0017	27.68457	13.46687	0.0417525	0.1871109	0.1302613	-0.05684955
1.36E-05	7.55E-08	71.21974	48.6554	0.1436607	0.0586792	0.1492501	0.09057085
0.04146	3.43E-05	44.64834	13.82373	0.831944	0.7113771	0.5934645	-0.1179126
0.011638	0.04478	13.48888	19.34124	0.5734022	0.6300007	0.5533031	-0.07669757
0.003071	0.00581	22.3606	25.12706	0.9061329	0.7679989	0.6414219	-0.126577
0.0057	0.00399	23.98512	22.44156	0.8679251	0.7805997	0.8461608	0.06556109
0.019578	0.00022	36.56818	17.08226	0.0794667	0.5203022	0.6351877	0.1148855
0.034526	0.02227	16.52212	14.61854	0.372898	0.2605196	0.3524359	0.0919163
0.004102	0.00297	25.26812	23.86982	0.7730885	0.699541	0.7638662	0.06432517
0.000282	3.65E-07	64.38213	35.49541	0.6759571	0.7561105	0.685627	-0.07048348
0.023742	0.00393	24.05723	16.24483	0.1080855	0.1714551	0.2891082	0.117653
0.007238	0.00283	25.47724	21.40361	0.8985131	0.6465514	0.4956103	-0.1509412
0.009679	0.00593	22.27152	20.14173	0.2411805	0.1033699	0.224648	0.1212781
0.025444	0.01671	17.76937	15.94416	0.6575934	0.5008075	0.6453552	0.1445477
0.010708	0.01178	19.28734	19.703	0.7282338	0.6777691	0.7279815	0.05021242
0.004084	0.00969	20.13496	23.88965	0.3148152	0.2180789	0.2933306	0.0752517
0.016038	0.00143	28.45399	17.94847	0.7179139	0.6238916	0.6939306	0.07003904
0.01738	0.0071	21.48836	17.59949	0.1924262	0.1038056	0.173399	0.06959338
0.014852	5.47E-06	52.61906	18.2821	0.85342	0.6519723	0.5938755	-0.05809677

0.016644	0.00025	35.95756	17.78732	0.1291155	0.5196145	0.6416055	0.121991
0.017038	0.00924	20.34512	17.68594	0.8323244	0.7650043	0.8254644	0.06046005
0.007613	0.00593	22.26643	21.18444	0.8435042	0.9076694	0.8499396	-0.05772974
0.001674	0.00313	25.04066	27.76201	0.0735119	0.2193321	0.3384044	0.1190723
0.001151	0.00499	23.02201	29.38808	0.8835112	0.9468026	0.8812612	-0.06554135
0.023852	0.00259	25.86997	16.22479	0.6674192	0.4954194	0.588978	0.09355855
0.014302	0.03299	14.81569	18.44599	0.8031577	0.877669	0.7725745	-0.1050944
0.000386	0.00056	32.54626	34.13288	0.2353492	0.4817635	0.7251297	0.2433662
0.001987	0.00658	21.8145	27.01783	0.6772799	0.7511008	0.6682082	-0.08289251
0.027111	0.00939	20.27195	15.66862	0.822387	0.6388804	0.7760102	0.1371299
0.042856	0.03349	14.75025	13.67987	0.8931805	0.7610965	0.6482747	-0.1128218
0.016729	1.02E-07	69.90311	17.76524	0.1321883	0.7142849	0.6150635	-0.0992214
0.001383	8.50E-06	50.70762	28.59264	0.8448606	0.65965	0.7643576	0.1047076
0.037601	0.00279	25.53904	14.24796	0.8487469	0.7932142	0.7204593	-0.07275483
0.025265	1.01E-06	59.95435	15.97483	0.1723007	0.6509063	0.7283146	0.0774083
0.038975	0.03321	14.78714	14.09217	0.563253	0.4698012	0.537905	0.06810375
0.013377	0.0008	30.94382	18.7364	0.4730571	0.7221004	0.599445	-0.1226553
0.047351	0.02843	15.46191	13.24668	0.575617	0.7273844	0.6039104	-0.123474
4.11E-05	0.00015	38.31103	43.85687	0.6929139	0.9262654	0.7338301	-0.1924353
0.014759	0.01309	18.83001	18.30943	0.7595591	0.8508148	0.7720517	-0.07876316
0.049192	0.04297	13.6684	13.08107	0.5794741	0.6362497	0.5842028	-0.05204694
0.00051	2.21E-05	46.55383	32.92166	0.8649722	0.6641683	0.7914038	0.1272355
0.001034	0.00171	27.66634	29.85451	0.7204721	0.8157367	0.7340605	-0.08167618
0.028321	0.04231	13.73577	15.47893	0.8403377	0.9048051	0.8474784	-0.05732672
0.016716	0.02168	16.63946	17.76875	0.8877041	0.8023651	0.7062917	-0.09607338
0.003253	3.02E-05	45.19776	24.87764	0.8150114	0.6552908	0.7528953	0.09760442
0.002864	5.68E-07	62.45958	25.42961	0.8793025	0.8025146	0.8559284	0.0534138
0.018034	0.0026	25.84998	17.43912	0.1424996	0.2734643	0.3707086	0.09724437
0.013706	0.01399	18.5407	18.6308	0.8133435	0.7455016	0.8209836	0.07548209
0.008566	0.00141	28.51636	20.67226	0.7830318	0.7058802	0.7577257	0.05184546
0.039606	0.00666	21.76779	14.02241	0.8258117	0.6655791	0.5737709	-0.09180823
0.041358	1.87E-05	47.27837	13.83436	0.200398	0.5102451	0.579768	0.06952287
0.049128	1.62E-07	67.89465	13.08674	0.1117395	0.6925295	0.7575268	0.06499729
0.050015	0.04594	13.37824	13.00898	0.8117291	0.5094717	0.7977609	0.2882892
0.001884	0.00142	28.48804	27.24997	0.8181673	0.911133	0.832208	-0.07892497
0.049399	0.00431	23.65945	13.06285	0.856208	0.644673	0.5402292	-0.1044438
0.013603	0.03323	14.78523	18.66366	0.6567132	0.7396566	0.6331278	-0.1065288
0.00012	0.00012	39.067	39.20396	0.7957137	0.8779582	0.8017387	-0.07621954
0.05007	0.00023	36.4697	13.0042	0.070032	0.5182821	0.6371434	0.1188614
0.005073	0.00012	39.20849	22.94757	0.116815	0.0424151	0.0959209	0.0535058
0.018214	0.04651	13.32445	17.39587	0.6394851	0.7011868	0.7757472	0.07456043
0.001282	0.00082	30.87661	28.92165	0.897593	0.9622161	0.9029331	-0.05928298
0.017807	0.01301	18.85593	17.49405	0.7298489	0.8291855	0.7505038	-0.07868171
0.000423	0.00031	35.08832	33.73409	0.8685673	0.9525959	0.8716781	-0.0809178
0.000554	0.00018	37.45031	32.56657	0.5143211	0.5922807	0.5294044	-0.06287629
0.046003	0.00546	22.62625	13.37217	0.7990301	0.6818849	0.7433626	0.06147769
0.000582	0.00022	36.55265	32.34733	0.8706387	0.6941949	0.8658659	0.171671
0.000319	0.00112	29.49195	34.96556	0.7499462	0.8059454	0.7370256	-0.06891984
4.22E-05	2.29E-07	66.39612	43.74383	0.5696375	0.686394	0.5500173	-0.1363767
0.000436	0.00029	35.44274	33.60662	0.3109014	0.1423969	0.2888269	0.14643
2.35E-06	1.82E-06	57.39546	56.28712	0.0781007	0.0137412	0.0737051	0.05996382
0.031238	0.02696	15.69262	15.05323	0.0218819	0.096734	0.0297128	-0.06702115
0.028763	0.01206	19.18717	15.41161	0.161772	0.0932934	0.1558453	0.06255189
0.001932	0.00063	31.97301	27.13929	0.2089752	0.1194514	0.2023789	0.0829275

0.043524	0.00206	26.85925	13.61272	0.8601896	0.7453761	0.8062728	0.06089672
0.007327	0.00919	20.367	21.35047	0.2393892	0.1474293	0.2327624	0.08533309
0.030336	0.03969	14.01336	15.18037	0.7797385	0.8382287	0.7748649	-0.06336384
0.018095	0.01344	18.71719	17.42439	0.0357189	0.1456107	0.0508511	-0.09475964
1.16E-05	6.74E-05	41.71312	49.36678	0.5832585	0.7200313	0.5433927	-0.1766386
0.003022	0.00065	31.84569	25.19777	0.2251143	0.1236612	0.2072342	0.08357305
0.003984	0.00109	29.64543	23.99633	0.8229972	0.7274078	0.7895676	0.06215989
0.017636	0.0385	14.1459	17.53606	0.8238837	0.7306591	0.8211021	0.09044301
0.007895	3.60E-05	44.43987	21.02636	0.1271881	0.0482775	0.1092324	0.06095491
0.020094	0.01079	19.67157	16.96938	0.9200788	0.8493384	0.7709532	-0.07838509
0.031859	0.04159	13.80971	14.96764	0.8873914	0.821592	0.8901227	0.06853072
0.010157	0.00045	33.46703	19.93214	0.7902561	0.6972846	0.7717378	0.07445312
2.20E-05	1.20E-06	59.19298	46.56651	0.2021581	0.0880696	0.1919842	0.1039146
0.020425	0.00068	31.70618	16.89842	0.7322497	0.5406587	0.6242658	0.08360721
0.011224	0.00322	24.92226	19.49848	0.3071558	0.4400148	0.520219	0.08020421
0.000101	3.98E-05	44.0053	39.96781	0.1686534	0.0627051	0.154575	0.09186995
0.002295	0.00625	22.04002	26.39222	0.9132971	0.7786884	0.6385829	-0.1401055
0.033786	0.0145	18.38577	14.71263	0.0889538	0.3569733	0.543224	0.1862506
0.001524	0.00057	32.40455	28.16976	0.795243	0.7227631	0.7838148	0.06105167
0.005349	0.00634	21.98241	22.71749	0.2465066	0.1296709	0.234795	0.1051241
0.010374	0.00961	20.17433	19.8405	0.775305	0.8427324	0.7757468	-0.06698562
0.028389	0.00277	25.5681	15.46852	0.7874928	0.900048	0.8386676	-0.06138041
0.013564	0.02066	16.84786	18.67603	0.606033	0.6804986	0.5994623	-0.08103637
0.004372	0.03353	14.74568	23.59299	0.8507356	0.9083863	0.8470221	-0.0613642
0.047154	0.04101	13.87143	13.2648	0.0547019	0.1967186	0.3224155	0.1256969
0.012007	0.00049	33.07174	19.20553	0.849065	0.6579828	0.760412	0.1024292
0.02267	0.00058	32.36876	16.44551	0.1734136	0.3866521	0.4600429	0.07339074
0.026954	0.00078	31.08156	15.69371	0.7286038	0.6462071	0.5927736	-0.05343353
0.038017	3.03E-05	45.17926	14.20025	0.1626888	0.4627909	0.5468254	0.0840345
0.020661	0.00204	26.90876	16.84838	0.7128161	0.8812082	0.7944797	-0.08672858
0.003387	0.00152	28.18487	24.70173	0.2274756	0.1133879	0.2139455	0.1005575
0.049818	0.00743	21.29152	13.02617	0.8502731	0.7870896	0.72685	-0.06023958
0.041067	0.00607	22.16731	13.86509	0.9011409	0.7461192	0.8402184	0.09409922
0.000115	1.86E-05	47.30414	39.3773	0.1672722	0.0933749	0.1496125	0.0562376
0.003519	0.02218	16.54005	24.53633	0.8263256	0.7485636	0.6320322	-0.1165314
0.040687	0.00462	23.35757	13.9054	0.8511633	0.616128	0.7257311	0.1096031
0.005065	0.00754	21.22679	22.95407	0.8282483	0.8824285	0.8194703	-0.06295823
0.000754	0.00123	29.11589	31.2269	0.8976006	0.7451569	0.8709978	0.1258409
0.000978	0.00017	37.70147	30.09637	0.1025065	0.0491101	0.1069576	0.05784755
0.000913	0.00573	22.415	30.39313	0.418655	0.3411633	0.4675295	0.1263662
0.043724	0.02574	15.89467	13.59277	0.2214949	0.1620885	0.2129614	0.05087287
0.000526	0.00472	23.26432	32.78933	0.7277604	0.786112	0.6981759	-0.08793601
0.006799	0.00589	22.30172	21.67566	0.8684022	0.6136464	0.8357347	0.2220883
0.043383	0.03801	14.20059	13.62678	0.9747239	0.8088555	0.6523954	-0.1564601
0.046492	0.00786	21.04751	13.32619	0.1672506	0.2373193	0.2943204	0.05700108
0.027141	0.02999	15.22997	15.66368	0.8942812	0.8193107	0.8965415	0.0772309
0.001124	0.00909	20.41315	29.49232	0.7114376	0.7681457	0.6834347	-0.08471102
0.043844	0.02907	15.36568	13.58093	0.8219279	0.8817078	0.8186101	-0.06309775
6.37E-05	3.51E-05	44.54869	41.95937	0.2091425	0.1008794	0.184743	0.08386363
0.024536	0.00999	20.00633	16.10195	0.8774126	0.7956356	0.8562153	0.06057963
0.002098	0.00066	31.82662	26.7813	0.1803032	0.0817409	0.1614863	0.07974538
0.005354	0.00324	24.89716	22.71346	0.7201505	0.4737202	0.656411	0.1826908
0.0058	0.00362	24.41558	22.36564	0.5539529	0.7432457	0.5622869	-0.1809588
0.026776	3.00E-06	55.23158	15.7226	0.0957448	0.7188171	0.8435119	0.1246948

0.027575	0.01002	19.99049	15.59479	0.7731343	0.6323997	0.5238944	-0.1085053
0.029573	0.0095	20.22447	15.29108	0.8016704	0.7076933	0.7759467	0.06825338
0.008245	0.01463	18.34825	20.83784	0.8354882	0.7633023	0.8417717	0.0784693
0.000357	0.00186	27.30231	34.46926	0.6992022	0.777889	0.6731772	-0.1047118
0.037946	0.00196	27.08305	14.20831	0.8641911	0.640385	0.7436604	0.1032754
0.001026	0.00028	35.55202	29.8906	0.1406347	0.0700054	0.1269505	0.05694518
0.028213	0.03737	14.27442	15.49545	0.6206591	0.6985333	0.6157603	-0.08277302
0.000373	0.00223	26.50913	34.28833	0.665274	0.7527751	0.6475495	-0.1052256
7.24E-05	3.57E-06	54.4719	41.40318	0.8156573	0.8995265	0.8295239	-0.07000259
0.032417	6.29E-05	42.01555	14.89223	0.8608095	0.7633015	0.7127302	-0.05057129
0.000332	0.00035	34.56293	34.79387	0.2076229	0.1054752	0.2174824	0.1120072
0.00967	6.89E-05	41.61472	20.14558	0.858712	0.6711559	0.7489741	0.07781821
0.005554	0.0111	19.54538	22.554	0.8889259	0.8297454	0.8943493	0.06460398
0.010737	0.02585	15.87621	19.69104	0.7589498	0.8552111	0.7351582	-0.1200529
0.025676	0.0219	16.59586	15.9048	0.1537861	0.0927619	0.1480396	0.05527762
0.000764	0.00129	28.88832	31.17142	0.2295273	0.1178222	0.2222884	0.1044663
1.50E-05	2.14E-06	56.69573	48.23618	0.1075238	0.0271402	0.0979029	0.07076267
1.42E-05	1.01E-05	49.96663	48.46582	0.7677949	0.8770016	0.7748703	-0.1021312
0.03826	0.00052	32.85994	14.17253	0.723099	0.6262435	0.5560443	-0.07019912
0.000164	0.00035	34.58087	37.8423	0.8855058	0.7617092	0.8758107	0.1141014
0.011959	0.00939	20.27462	19.22288	0.5123649	0.6909552	0.5278351	-0.1631202
0.025867	0.04927	13.0739	15.8726	0.8278989	0.7375115	0.8558907	0.1183792
0.04766	0.01118	19.51576	13.21844	0.8366904	0.7856596	0.7305076	-0.05515196
0.008843	0.01035	19.85096	20.53408	0.926539	0.863853	0.9291254	0.06527245
0.009681	0.00974	20.1161	20.14094	0.6878894	0.8080431	0.7107451	-0.09729806
0.031994	0.01479	18.30046	14.94928	0.3432193	0.2769599	0.3323176	0.05535764
0.043426	0.0239	16.21676	13.62253	0.8130919	0.7075797	0.6098795	-0.09770019
0.043298	0.03561	14.48368	13.63535	0.247132	0.3581036	0.2551392	-0.1029645
0.049249	0.02406	16.18617	13.07607	0.1868462	0.3127624	0.2183283	-0.09443405
0.001052	0.00158	28.01899	29.78136	0.6076207	0.70791	0.6008503	-0.1070596
0.000791	0.00042	33.80382	31.01718	0.8357362	0.8975917	0.840184	-0.05740773
0.030695	0.02596	15.85696	15.12935	0.7589721	0.8438275	0.7661255	-0.07770203
0.022897	0.04118	13.85288	16.4023	0.4310565	0.4946743	0.4194012	-0.07527316
0.014485	0.01784	17.48667	18.39078	0.0893356	0.1647589	0.0832397	-0.08151924
0.04198	0.00086	30.641	13.76954	0.0778713	0.1972887	0.2686249	0.07133622
0.013547	0.00061	32.14972	18.6816	0.8688216	0.7049539	0.7946139	0.08966002
0.000232	0.00035	34.50312	36.34736	0.7433109	0.8442215	0.7510468	-0.0931747
0.002992	0.00011	39.55558	25.24012	0.6378906	0.7952083	0.711592	-0.08361632
0.047727	0.01474	18.31469	13.2124	0.6116641	0.5132046	0.5886123	0.07540763
0.005056	0.01348	18.70403	22.96152	0.8346494	0.9011858	0.8205373	-0.08064841
0.004079	0.00238	26.23847	23.89496	0.761452	0.8404052	0.7746224	-0.06578285
0.019376	0.01052	19.77904	17.12738	0.9015408	0.7857909	0.870756	0.08496509
0.014101	0.01413	18.49718	18.50754	0.9021149	0.7979904	0.8887879	0.09079744
0.008433	0.00013	38.8432	20.74041	0.8743956	0.7442828	0.8071605	0.06287768
0.035362	2.23E-05	46.51637	14.5146	0.8216406	0.6670709	0.7245923	0.05752133
0.017231	0.0365	14.37709	17.63695	0.1178571	0.2567418	0.412152	0.1554102
0.025659	0.01695	17.70959	15.9076	0.2286557	0.1494374	0.2201899	0.07075248
0.012378	0.01176	19.29725	19.07354	0.6129981	0.7514937	0.6123497	-0.1391439
0.03308	0.02505	16.01145	14.80433	0.4055401	0.315911	0.397967	0.08205599
0.039597	0.01779	17.49776	14.02337	0.8631571	0.7892812	0.8494605	0.06017934
0.00785	0.0016	27.96194	21.05103	0.8858391	0.7648615	0.837593	0.07273144
0.000151	8.23E-05	40.8442	38.19798	0.2238008	0.1142679	0.2108714	0.09660354
0.026736	0.0371	14.30579	15.72912	0.8536192	0.7989551	0.861392	0.06243686
0.006268	0.00922	20.35071	22.02848	0.131898	0.0758506	0.1337256	0.05787506



0.041502	0.00061	32.12598	13.81926	0.8976161	0.8285115	0.7688911	-0.05962043
0.033933	0.00027	35.6697	14.69375	0.6988173	0.4370155	0.5163859	0.07937043
0.004021	0.00292	25.35068	23.95625	0.7353231	0.6312793	0.7249362	0.0936569
4.26E-05	0.00027	35.72967	43.7071	0.6954837	0.7924005	0.6639963	-0.1284042
0.000584	0.00093	30.29925	32.33315	0.8249156	0.9124736	0.8218912	-0.09058233
0.002607	0.00026	35.78181	25.83787	0.469281	0.3268852	0.4024093	0.0755241
0.003584	2.92E-05	45.35258	24.45664	0.7727772	0.939257	0.8503307	-0.08892639
0.03376	0.0101	19.95549	14.71591	0.8301281	0.753743	0.8115711	0.05782812
0.000356	0.03291	14.82655	34.48808	0.8898338	0.9496276	0.8594873	-0.09014027
0.039143	0.04311	13.65383	14.07347	0.8384045	0.7292978	0.6048639	-0.1244339
4.11E-05	0.00039	34.09694	43.86163	0.5102974	0.5906193	0.4835112	-0.1071081
0.032472	0.03063	15.1389	14.88494	0.7777567	0.7072058	0.7740004	0.06679457
0.025362	0.00012	39.25001	15.95814	0.6420918	0.3701414	0.2812906	-0.08885078
0.030627	0.02489	16.04031	15.13895	0.0621905	0.1554471	0.2597966	0.1043494
0.018371	0.01363	18.65394	17.35861	0.2574817	0.1601717	0.2444302	0.08425847
0.00029	3.27E-06	54.85617	35.37828	0.2173765	0.1308188	0.200465	0.06964617
0.000218	0.00013	39.01086	36.61889	0.1546828	0.0738484	0.1343967	0.06054823
0.006107	0.0051	22.92169	22.14163	0.8820968	0.8118859	0.8770725	0.06518663
0.009676	0.00019	37.26407	20.1432	0.2197805	0.1112033	0.1894281	0.07822477
0.029104	0.00508	22.94507	15.36048	0.4268084	0.5172005	0.4257993	-0.09140126
0.000995	0.00414	23.83083	30.02169	0.6767585	0.7854986	0.6717312	-0.1137674
0.004141	0.00197	27.06621	23.82924	0.2786329	0.1341857	0.255042	0.1208563
0.018342	0.01295	18.87837	17.36552	0.864221	0.9321978	0.8726607	-0.05953712
6.99E-06	1.80E-07	67.43777	51.55456	0.6608349	0.8327906	0.6727377	-0.1600529
0.001868	0.00047	33.24472	27.28539	0.1990911	0.0812248	0.1736696	0.09244483
0.00146	0.00019	37.16079	28.35642	0.8500761	0.7366181	0.8214031	0.08478504
0.032941	0.0447	13.49658	14.82269	0.5638103	0.5130875	0.5660094	0.05292191
0.04628	0.0124	19.06614	13.34603	0.865451	0.7903532	0.8438073	0.05345415
0.00407	0.00756	21.2147	23.90443	0.3094299	0.3989853	0.4877003	0.08871504
0.013398	0.01642	17.84629	18.72967	0.1441283	0.0904373	0.1411563	0.05071895
0.001723	0.00379	24.21584	27.63766	0.5535834	0.7495098	0.5605596	-0.1889501
0.010808	0.00011	39.78218	19.66272	0.1025817	0.3628583	0.4925063	0.129648
0.013855	0.00506	22.96075	18.58389	0.676742	0.85272	0.7130621	-0.1396579
0.00011	0.00269	25.70683	39.60121	0.1595894	0.0844473	0.1925067	0.1080594
0.006685	0.00129	28.87942	21.7491	0.7751682	0.6592814	0.7371975	0.07791609
0.014572	0.00457	23.39685	18.36495	0.1126586	0.2262511	0.1475956	-0.07865544
0.005209	0.00259	25.87182	22.83209	0.5029905	0.6930931	0.5768292	-0.1162638
0.0024	0.00148	28.29766	26.19754	0.3109779	0.2129542	0.2962803	0.08332606
0.001827	0.00118	29.28711	27.38205	0.5469736	0.7134505	0.569844	-0.1436065
0.046407	0.03115	15.06506	13.33412	0.7652911	0.8435518	0.7713866	-0.07216515
0.016092	0.03105	15.08	17.93378	0.1556028	0.2147526	0.2997512	0.08499862
0.048046	0.00044	33.59385	13.18345	0.3317412	0.5839931	0.4790039	-0.1049892
0.02637	0.01006	19.97343	15.78886	0.7630666	0.8394127	0.7759609	-0.06345182
0.003982	0.00134	28.71389	23.99936	0.2479112	0.0959009	0.2230009	0.1271
0.020011	0.02952	15.29946	16.98742	0.6392763	0.6965535	0.6295612	-0.06699238
0.038696	0.00491	23.08559	14.12338	0.7814875	0.6528637	0.7292593	0.07639556
0.022305	0.00011	39.54414	16.51596	0.8060482	0.496971	0.3857387	-0.1112324
0.01565	0.00369	24.33208	18.05479	0.8632495	0.6944938	0.5935237	-0.1009701
0.000904	0.00105	29.76805	30.44062	0.8412291	0.7166032	0.5876267	-0.1289765
0.020429	0.01311	18.82357	16.8976	0.7174705	0.80033	0.7347196	-0.06561036
0.049253	0.00188	27.26302	13.07563	0.1496247	0.0605977	0.1621539	0.1015562
0.024332	0.00223	26.51344	16.13827	0.373126	0.5436894	0.4593961	-0.08429329
0.000129	0.0001	39.88512	38.88286	0.8341246	0.9302578	0.835072	-0.09518582
0.021157	1.28E-05	48.94204	16.74555	0.8427467	0.6218171	0.5078027	-0.1140144

0.018481	0.01814	17.41354	17.33275	0.5107566	0.6344619	0.5126812	-0.1217806
0.002344	0.00397	24.01568	26.29996	0.066159	0.1263733	0.0637758	-0.0625975
0.004354	0.00232	26.34178	23.61106	0.3475401	0.4161945	0.3556037	-0.0605908
0.040129	0.01915	17.17937	13.96538	0.7918201	0.6100062	0.746842	0.1368358
0.00149	0.00011	39.6566	28.26834	0.8018257	0.8841916	0.8293733	-0.05481832
0.049018	0.01627	17.88496	13.09648	0.8629726	0.5944237	0.7701154	0.1756918
0.044681	0.01953	17.09281	13.49878	0.8735176	0.7908562	0.8540074	0.06315114
0.001166	0.00737	21.32647	29.33247	0.6218883	0.7232348	0.5785577	-0.144677
0.012974	0.00083	30.81979	18.86939	0.7627319	0.6482716	0.713585	0.06531333
0.019435	0.02076	16.82707	17.11405	0.7969404	0.6953584	0.631837	-0.06352141
0.021415	0.00017	37.80835	16.69276	0.1993243	0.3700304	0.447345	0.07731467
0.002156	0.00029	35.35247	26.66285	0.8793986	0.6965562	0.8001447	0.1035885
0.021002	0.00397	24.01661	16.77737	0.8715549	0.7714251	0.827189	0.05576385
0.010189	0.0179	17.47118	19.91866	0.8888913	0.9459417	0.8588377	-0.08710405
0.004144	0.0059	22.29515	23.82561	0.6032695	0.6871548	0.5989705	-0.08818437
0.001612	0.00775	21.10764	27.92569	0.8473739	0.7949674	0.8591748	0.06420747
0.005081	0.0088	20.55307	22.9406	0.7802722	0.706522	0.7819842	0.07546209
0.013381	0.0199	17.01185	18.73496	0.4884293	0.3302404	0.5041051	0.1738646
0.030962	3.84E-05	44.15805	15.09168	0.8207727	0.6630914	0.7175142	0.05442268
0.001259	1.05E-07	69.76756	29.00124	0.185211	0.5720044	0.7015556	0.1295512
0.01746	0.0057	22.44337	17.57948	0.1405123	0.064346	0.1328634	0.06851733
0.014151	0.01404	18.52547	18.49203	0.8558937	0.7783192	0.8579863	0.07966713
0.017461	0.02281	16.41958	17.5792	0.6309408	0.7607871	0.6326933	-0.1280939
0.023813	0.00827	20.82299	16.23179	0.6571561	0.4620097	0.5922624	0.1302526
0.026445	2.31E-06	56.3555	15.77658	0.1512592	0.6160211	0.7075658	0.09154475
0.028737	0.02277	16.42617	15.41552	0.8635985	0.7757338	0.8578806	0.08214679
0.048459	5.06E-05	42.95936	13.1463	0.6424729	0.3766662	0.4484875	0.07182132
0.020286	0.04024	13.95349	16.92813	0.051621	0.1672566	0.306255	0.1389984
0.005733	0.00517	22.86389	22.41596	0.8071212	0.7415765	0.8059176	0.06434116
0.004053	0.00042	33.80861	23.92192	0.4531065	0.6077527	0.7012535	0.09350082
0.025639	0.01338	18.7365	15.91091	0.8863952	0.7018666	0.5667096	-0.135157
0.000335	0.00014	38.47853	34.74326	0.7678733	0.5038813	0.7085814	0.2047001
0.039537	0.00616	22.10424	14.02997	0.8738525	0.6741015	0.5714333	-0.1026682
0.022583	0.00576	22.39725	16.46214	0.8349147	0.6664112	0.7776566	0.1112454
0.042616	0.00989	20.04672	13.70425	0.7184939	0.5676209	0.669172	0.1015511
0.002645	0.01422	18.47124	25.77534	0.8970607	0.7489436	0.541517	-0.2074267
0.006414	0.0004	33.94207	21.92886	0.1272757	0.4187345	0.5928478	0.1741133
0.031554	0.03938	14.0477	15.00952	0.5273911	0.7345909	0.5201941	-0.2143968
0.02563	0.00023	36.47324	15.91244	0.7853433	0.6372869	0.7111135	0.07382663
0.001408	0.00099	30.04533	28.51517	0.0714533	0.2319376	0.3616605	0.1297229
0.042372	0.02125	16.72692	13.72923	0.1542675	0.0670851	0.135195	0.06810995
0.033338	0.00707	21.50675	14.77067	0.8572919	0.6891354	0.790215	0.1010796
0.000311	0.00115	29.39961	35.07446	0.3112771	0.1722556	0.2955316	0.123276
0.003891	0.00064	31.91459	24.0989	0.8316489	0.7521116	0.8098113	0.05769975
0.003629	0.00283	25.48681	24.40236	0.8375476	0.9243264	0.8493741	-0.0749523
0.022185	0.00296	25.28609	16.53944	0.8361083	0.559056	0.7288015	0.1697456
0.00035	0.00019	37.1899	34.5624	0.1974341	0.0742948	0.1784918	0.104197
0.011624	0.00044	33.58424	19.34645	0.4311223	0.7642633	0.626154	-0.1381092
0.046807	0.02673	15.73007	13.29687	0.8956915	0.7587602	0.8642331	0.105473
0.02294	0.02847	15.45583	16.39409	0.6586141	0.7566534	0.6519579	-0.1046955
0.039421	0.00773	21.12077	14.04277	0.1143388	0.3845	0.5423876	0.1578876
0.039578	0.02202	16.57193	14.02551	0.8442228	0.7793558	0.8346571	0.05530126
1.87E-05	1.92E-07	67.16106	47.27605	0.3123373	0.128201	0.283827	0.155626
0.036207	0.04836	13.15535	14.41206	0.969812	0.8472864	0.7134892	-0.1337971

0.002881	0.00085	30.7144	25.40531	0.5936079	0.7291574	0.6210107	-0.1081467
1.25E-05	6.56E-05	41.83004	49.02379	0.269508	0.1764088	0.2937289	0.1173201
5.60E-05	8.78E-05	40.5646	42.51513	0.1315578	0.0697765	0.1437879	0.07401145
0.041378	0.0079	21.02449	13.83229	0.2023398	0.5247533	0.6918457	0.1670923
0.039648	0.00207	26.84959	14.01781	0.654413	0.5499913	0.4794677	-0.07052363
0.003867	0.00138	28.58649	24.12608	0.2133164	0.1542989	0.2043646	0.05006571
0.026354	0.02338	16.31222	15.79147	0.4017526	0.5758691	0.7504996	0.1746304
0.049739	0.00691	21.60269	13.03302	0.1092553	0.3468578	0.4668139	0.119956
0.000883	0.00295	25.29827	30.54073	0.5942687	0.6884809	0.5879976	-0.1004833
9.34E-05	6.38E-05	41.95392	40.29778	0.2854541	0.1512641	0.2717693	0.1205051
0.015351	0.00032	34.89426	18.13874	0.2516316	0.3701097	0.4332567	0.06314693
0.000944	0.0019	27.21719	30.25255	0.6274586	0.8362514	0.6443773	-0.1918741
3.00E-05	2.98E-05	45.25869	45.22795	0.1600189	0.0895904	0.1490049	0.05941455
0.008408	1.44E-05	48.4222	20.75309	0.1257136	0.4678388	0.5919828	0.124144
0.018999	4.70E-05	43.28316	17.21274	0.1903591	0.3443751	0.4035192	0.05914406
0.00087	0.00593	22.266	30.60419	0.6871079	0.7724019	0.6511557	-0.1212462
0.04535	0.01449	18.39022	13.4342	0.7775992	0.6659323	0.7454991	0.07956674
0.009528	0.01565	18.05486	20.20996	0.7130052	0.8280782	0.6969995	-0.1310786
0.019484	0.01997	16.99596	17.10324	0.5504988	0.6294419	0.5536057	-0.07583619
0.042888	0.00048	33.16984	13.67663	0.7402111	0.5822769	0.6536995	0.07142256
0.027648	0.02429	16.14576	15.58334	0.7847016	0.8809125	0.7878159	-0.09309661
0.04529	0.04449	13.5172	13.43997	0.4708632	0.6024886	0.4736932	-0.1287954
0.013705	0.0075	21.25023	18.6311	0.8514086	0.7537107	0.8388383	0.08512753
0.013545	0.00476	23.22824	18.68221	0.863809	0.8069224	0.8583081	0.05138576
0.036358	0.00074	31.28333	14.39401	0.1597971	0.3068994	0.3873005	0.08040113
0.002102	0.00313	25.04615	26.77401	0.1418355	0.0608936	0.1408557	0.07996216
0.000636	0.0021	26.7707	31.96586	0.7466863	0.8020738	0.7249855	-0.07708826
0.020026	0.00664	21.78084	16.98411	0.742132	0.8136699	0.7605301	-0.05313974
0.000571	0.00187	27.28917	32.43313	0.2890546	0.1332787	0.2846619	0.1513831
0.001874	0.00036	34.49334	27.27199	0.6933242	0.5101838	0.6437842	0.1336004
0.003897	0.0052	22.84142	24.0929	0.8102911	0.7485764	0.8130406	0.06446418
0.019643	0.01487	18.27743	17.06788	0.7018655	0.833835	0.7235826	-0.1102525
0.002647	0.00041	33.91082	25.77288	0.5911309	0.6416727	0.5738083	-0.06786443
0.000642	0.00336	24.73345	31.92649	0.8650368	0.9221886	0.8444058	-0.07778279
0.035794	0.02795	15.53689	14.46186	0.4493882	0.3420502	0.4457214	0.1036712
0.0012	7.57E-06	51.21004	29.20855	0.252577	0.6367744	0.7026371	0.06586264
0.005844	0.0074	21.30765	22.33296	0.7263279	0.8633001	0.733555	-0.1297452
0.000246	0.00019	37.23529	36.08826	0.8003569	0.9188	0.8247851	-0.09401496
0.004814	0.00172	27.63426	23.17503	0.6210228	0.7657105	0.6644292	-0.1012813
0.042167	0.00358	24.45894	13.75027	0.8563011	0.5508084	0.4169972	-0.1338112
0.045292	0.00467	23.30944	13.43978	0.0258652	0.262872	0.3620267	0.09915471
0.049268	0.03469	14.59856	13.07434	0.3225239	0.2385363	0.3118315	0.07329525
0.012236	0.0219	16.59632	19.12357	0.8561946	0.8040978	0.7078115	-0.09628624
0.001016	0.00025	36.10702	29.9306	0.2174798	0.1046528	0.206725	0.1020722
0.002431	0.00108	29.65033	26.1413	0.2818374	0.1647953	0.2538951	0.08909984
0.000926	0.0006	32.21397	30.33486	0.8430585	0.9397686	0.861694	-0.07807451
0.04522	0.0119	19.24278	13.44669	0.0522084	0.1768602	0.0989642	-0.07789592
0.032504	0.01692	17.71563	14.88069	0.8714475	0.8118046	0.7238345	-0.08797009
0.003904	0.01901	17.20972	24.08453	0.4760416	0.6070015	0.4292001	-0.1778014
0.032263	0.0014	28.53527	14.9129	0.1062823	0.2366727	0.3471442	0.1104715
9.49E-05	0.00017	37.6021	40.22677	0.291119	0.1467191	0.2745394	0.1278203
0.003565	0.0064	21.94113	24.47939	0.8538261	0.9200435	0.8446978	-0.07534573
0.000185	2.26E-05	46.46525	37.33207	0.6042118	0.6779151	0.6021328	-0.07578234
0.034522	0.05012	13.0001	14.61905	0.0823711	0.1840828	0.321003	0.1369203

7.52E-05	0.00012	39.12416	41.23586	0.5948275	0.658512	0.6016341	-0.05687793
0.044325	0.04429	13.53719	13.5335	0.4598447	0.2894002	0.4559958	0.1665956
0.000706	0.00028	35.5214	31.5106	0.6678329	0.7836345	0.6845446	-0.09908998
0.049737	0.00194	27.11246	13.03318	0.6215024	0.4788568	0.5492476	0.07039074
0.001532	0.00448	23.48251	28.14698	0.2842743	0.1690892	0.2978119	0.1287227
0.00035	0.00846	20.72681	34.55495	0.8527496	0.7334548	0.5156818	-0.2177731
0.009454	0.01696	17.70596	20.24394	0.4200988	0.5080809	0.596377	0.08829603
0.01725	3.48E-07	64.5871	17.63202	0.156616	0.881632	0.7830538	-0.0985783
0.014188	0.02644	15.77659	18.48084	0.919481	0.8345646	0.673545	-0.1610196
0.034357	0.00589	22.29819	14.6398	0.8544682	0.7300325	0.6590188	-0.07101364
0.034403	0.0042	23.77183	14.63409	0.780606	0.6885158	0.6129894	-0.07552646
0.00979	0.0093	20.31308	20.09198	0.8310768	0.7524254	0.8255252	0.0730998
0.001842	0.00184	27.35569	27.34711	0.6833599	0.770707	0.6934449	-0.07726209
0.001037	0.0011	29.57931	29.84083	0.2884827	0.1640183	0.2841293	0.120111
0.011878	0.0053	22.75666	19.25255	0.1513401	0.2478955	0.1515727	-0.09632283
0.027417	0.03307	14.80578	15.61975	0.8934212	0.794879	0.8985036	0.1036247
0.046377	0.02227	16.52284	13.33695	0.1521934	0.2301953	0.3062569	0.0760617
0.000786	0.00131	28.8204	31.04414	0.8621707	0.9385749	0.856851	-0.08172389
0.022248	0.00925	20.33768	16.52706	0.8203585	0.9104903	0.8484424	-0.06204793
0.014073	0.00378	24.22699	18.51623	0.8452951	0.7814708	0.7299449	-0.05152598
0.000135	0.00703	21.52742	38.68176	0.8564098	0.9251665	0.8068122	-0.1183544
0.013327	1.45E-05	48.37566	18.75259	0.5099366	0.7956891	0.7297933	-0.06589583
0.049703	0.0008	30.94954	13.03619	0.7124406	0.4173049	0.5179501	0.1006452
0.025614	0.00505	22.97033	15.91521	0.8557217	0.6604841	0.7867357	0.1262516
0.006096	0.00148	28.30243	22.14977	0.1338571	0.0660233	0.1202895	0.05426618
0.020319	0.00027	35.65615	16.92091	0.8289325	0.6330641	0.7118692	0.07880516
0.00684	0.0095	20.22127	21.64963	0.9021249	0.8392655	0.9072745	0.0680091
0.003723	1.20E-05	49.21642	24.29133	0.8134832	0.7029511	0.7595717	0.05662058
0.013273	0.02614	15.82771	18.77019	0.8012032	0.7050269	0.819304	0.1142771
0.014445	0.00978	20.09871	18.40281	0.5534528	0.6170725	0.5594235	-0.057649
0.00126	0.00201	26.97461	28.99801	0.6636355	0.7890793	0.6851284	-0.1039509
0.016068	0.01704	17.68614	17.94038	0.8519735	0.7946738	0.8498015	0.05512773
0.00304	0.00149	28.26056	25.17183	0.8419551	0.9207531	0.8517319	-0.06902127
0.04872	0.00656	21.82805	13.12297	0.7954441	0.5570201	0.6734359	0.1164158
0.016623	3.62E-05	44.41344	17.7928	0.692584	0.3049502	0.3978885	0.09293833
0.038696	0.01014	19.93857	14.12328	0.8354191	0.7770007	0.6902065	-0.08679417
0.002222	0.00034	34.62809	26.53228	0.859584	0.9312351	0.878547	-0.05268812
0.022431	0.00342	24.65442	16.49144	0.7610819	0.6743914	0.7337992	0.05940769
0.041377	0.01145	19.41356	13.83245	0.83143	0.7556387	0.8098444	0.05420578
0.049621	0.00704	21.52219	13.04334	0.8631649	0.7688571	0.8246663	0.05580922
5.62E-05	0.00037	34.26733	42.50018	0.5702085	0.6769145	0.5372508	-0.1396636
0.014807	0.01371	18.6312	18.2953	0.8103229	0.7358667	0.8081529	0.07228614
0.00468	0.00328	24.83555	23.29712	0.8747506	0.7978249	0.8688341	0.07100929
0.025682	0.00541	22.671	15.90379	0.8229334	0.6175591	0.7605562	0.142997
0.025081	0.00647	21.89104	16.00655	0.8699228	0.6827448	0.8097833	0.1270385
0.012244	0.01392	18.5627	19.12087	0.1439517	0.092495	0.1443804	0.05188541
0.000699	0.00224	26.50092	31.55698	0.7924359	0.8832942	0.8050815	-0.07821263
0.011774	0.00104	29.83894	19.29064	0.7841167	0.6718208	0.6049704	-0.06685033
0.025647	0.01733	17.61191	15.90959	0.9159282	0.8143951	0.7043628	-0.1100324
0.032054	0.02398	16.20072	14.94119	0.6825654	0.7648613	0.6950507	-0.06981064
0.039153	0.00254	25.94555	14.07232	0.1453251	0.3160065	0.2262747	-0.08973177
0.001468	0.00062	32.06281	28.33176	0.1525922	0.0791844	0.1409975	0.06181313
0.038055	0.01414	18.49415	14.19586	0.7909949	0.6854553	0.7622905	0.07683525
0.048237	0.04341	13.62367	13.16624	0.9034252	0.8019007	0.89519	0.09328923

0.000462	0.00253	25.97489	33.35604	0.7116007	0.8005044	0.6841475	-0.1163569
0.000607	2.00E-06	56.98637	32.16742	0.4999835	0.5981883	0.5102806	-0.08790766
0.03315	0.01956	17.08671	14.79517	0.7570958	0.822764	0.7669435	-0.05582055
0.012141	0.00065	31.86282	19.15734	0.0969837	0.1944163	0.137276	-0.05714028
0.046611	0.01533	18.14502	13.31511	0.7514374	0.6276307	0.7158294	0.08819868
0.023702	0.00214	26.70197	16.25208	0.079389	0.2290694	0.3179037	0.08883432
0.043931	0.02645	15.7761	13.57226	0.9081281	0.785201	0.8850327	0.09983173
0.000478	0.00408	23.89709	33.20437	0.9000999	0.9514619	0.8759789	-0.07548297
0.021016	0.0499	13.01941	16.77441	0.4699495	0.3820308	0.4943217	0.1122909
0.037694	1.04E-05	49.83574	14.23731	0.7885605	0.5707666	0.5135667	-0.0571999
0.015138	0.01527	18.16244	18.19938	0.2345612	0.1582023	0.232655	0.07445267
0.004448	0.00373	24.27726	23.51879	0.8149038	0.8957127	0.8285879	-0.06712475
0.000539	0.0008	30.97549	32.68309	0.1120189	0.0528934	0.1047438	0.05185036
0.030637	0.03625	14.40693	15.13748	0.8941941	0.8237602	0.8981435	0.07438329
0.00214	0.012	19.20961	26.69678	0.7417408	0.8646018	0.7011469	-0.1634549
0.003672	0.03641	14.38807	24.35091	0.8577409	0.9146522	0.8217059	-0.09294619
0.028861	0.00155	28.10903	15.39688	0.142218	0.2634126	0.3391392	0.07572659
0.000315	0.00025	36.00588	35.01236	0.7539834	0.8517178	0.7494839	-0.1022339
0.000687	3.12E-05	45.06078	31.62896	0.1860141	0.0907137	0.152045	0.06133122
0.00173	0.00554	22.56825	27.6197	0.9002002	0.8470552	0.9086897	0.06163459
0.042924	0.00985	20.0664	13.67298	0.7971559	0.6193003	0.7241572	0.1048569
0.011769	0.01382	18.59593	19.29278	0.6112536	0.6789492	0.6042947	-0.07465454
0.00366	0.01785	17.48354	24.36523	0.6351053	0.7370156	0.6247851	-0.1122306
0.016414	0.01563	18.06035	17.84778	0.8581851	0.9122297	0.8606641	-0.05156559
0.014689	0.02527	15.97477	18.33022	0.753203	0.8382059	0.7436848	-0.09452113
0.000717	0.00196	27.07139	31.4457	0.5483392	0.6306899	0.5416457	-0.08904412
0.001191	0.00041	33.85379	29.23986	0.187337	0.0937338	0.1644511	0.07071733
0.028079	0.03419	14.66115	15.51612	0.2921244	0.2073652	0.2936767	0.08631152
0.001393	0.0021	26.77067	28.56181	0.6360869	0.7316644	0.6003982	-0.1312662
0.037138	0.00026	35.90324	14.30187	0.8674085	0.758876	0.6685739	-0.09030217
0.001088	0.01152	19.3843	29.63499	0.7997133	0.8515518	0.7530659	-0.09848589
0.01365	0.04184	13.78438	18.6488	0.3090466	0.424442	0.2670011	-0.1574409
0.029102	0.04224	13.74269	15.36073	0.3467353	0.200189	0.3632957	0.1631067
0.042476	3.46E-05	44.61304	13.71854	0.6853074	0.333018	0.253412	-0.07960596
0.00025	0.00032	34.92296	36.01518	0.146347	0.0497664	0.143128	0.09336162
1.77E-05	7.65E-05	41.16247	47.50837	0.8184635	0.9169828	0.8156618	-0.101321
0.003223	0.00281	25.52059	24.91774	0.1282034	0.0698282	0.1231769	0.05334878
0.000264	0.01194	19.22986	35.7907	0.861361	0.9165482	0.8045552	-0.111993
0.005851	0.02731	15.63748	22.32773	0.8602408	0.7868052	0.6788	-0.1080052
0.017411	0.03411	14.67154	17.59165	0.3608747	0.461086	0.5751188	0.1140328
0.037997	0.01481	18.29399	14.20247	0.8578362	0.7795976	0.8380404	0.05844281
0.014773	0.00039	34.07006	18.3053	0.2127188	0.1474065	0.2045803	0.05717386
0.015497	0.01481	18.29528	18.09742	0.9149634	0.8236188	0.9142673	0.09064852
0.045623	0.01267	18.97377	13.40817	0.8338808	0.7291447	0.6648432	-0.06430146
0.008288	0.02038	16.90734	20.81564	0.6212131	0.6977149	0.6091493	-0.08856567
0.020623	0.01406	18.5199	16.85657	0.1071532	0.2517765	0.3632795	0.1115031
0.023466	0.00114	29.4129	16.29556	0.774022	0.5862699	0.6817384	0.09546849
0.035791	2.56E-05	45.9254	14.46229	0.0877859	0.2570543	0.359061	0.1020067
0.005437	0.00048	33.17652	22.64674	0.0913895	0.2328894	0.301765	0.06887555
0.000519	0.00043	33.62284	32.84925	0.3842937	0.4606862	0.385386	-0.07530016
0.034561	0.04824	13.16583	14.6142	0.8367271	0.7471744	0.6145834	-0.132591
0.033897	0.00555	22.55737	14.69843	0.8145419	0.6894408	0.7614964	0.07205558
0.007066	0.00022	36.62966	21.50814	0.8602033	0.7564719	0.8121765	0.05570457
0.016531	0.00093	30.3021	17.81691	0.8721546	0.6811703	0.584001	-0.09716937

0.010736	0.00307	25.13204	19.69171	0.8420148	0.6939088	0.810167	0.1162582
0.013078	0.0078	21.07678	18.83453	0.8640286	0.7139045	0.8572801	0.1433756
0.002716	0.0036	24.43326	25.66149	0.5248701	0.6942298	0.514979	-0.1792507
0.017794	0.01542	18.11996	17.49717	0.8347964	0.7815509	0.8330313	0.05148038
0.031016	0.00481	23.17763	15.0842	0.8333655	0.7107385	0.6378219	-0.07291657
0.017594	0.00051	32.95412	17.54635	0.8580366	0.7857159	0.7086703	-0.07704566
0.005483	0.00297	25.27357	22.60972	0.870259	0.9511	0.8873771	-0.06372288
0.005178	0.00813	20.9001	22.85857	0.7426708	0.8103829	0.731299	-0.07908382
0.013524	3.32E-05	44.79159	18.68895	0.7522921	0.4951085	0.6016082	0.1064996
0.00336	0.0038	24.20479	24.73657	0.5962407	0.7078546	0.605755	-0.1020996
0.000946	0.00022	36.66699	30.24084	0.9443682	0.8796699	0.7232915	-0.1563785
0.010192	0.04933	13.06895	19.91756	0.2074446	0.1035546	0.2051414	0.1015867
0.010114	0.00753	21.2293	19.95061	0.8223973	0.6892566	0.564603	-0.1246536
0.024693	1.21E-05	49.16784	16.07428	0.8357271	0.6830359	0.623885	-0.05915095
0.041022	0.04202	13.76562	13.86987	0.0695957	0.1492902	0.2340966	0.08480637
0.007148	0.00603	22.19439	21.45798	0.7294047	0.7866857	0.7313355	-0.05535027
0.024075	0.02387	16.2207	16.18432	0.0996402	0.2701114	0.4254665	0.1553551
0.019143	0.00031	35.02365	17.17988	0.8180573	0.7226442	0.6534619	-0.06918231
0.002296	0.00319	24.96092	26.3905	0.1677327	0.084796	0.1727347	0.08793871
0.006394	0.00038	34.18396	21.94213	0.811412	0.694374	0.7558767	0.06150278
0.022691	0.03577	14.46426	16.44139	0.791957	0.8466919	0.7868026	-0.05988928
3.57E-05	0.0001	39.79797	44.47425	0.6512737	0.8180938	0.6708292	-0.1472645
0.022329	0.01449	18.3905	16.5113	0.3134744	0.1991562	0.2985494	0.09939323
0.033318	0.01738	17.59938	14.77318	0.8212569	0.7166232	0.6223294	-0.09429384
0.049519	0.00547	22.62011	13.05232	0.1510969	0.2849295	0.3631678	0.07823829
0.000861	6.08E-05	42.16349	30.64851	0.8827984	0.9480417	0.885334	-0.06270771
0.028625	0.00062	32.10887	15.43252	0.1322505	0.2459155	0.3204847	0.07456914
0.000653	0.00046	33.38255	31.85347	0.8375738	0.9035057	0.8408681	-0.06263769
0.000558	0.00547	22.61876	32.53275	0.0199163	0.0798887	0.222845	0.1429563
0.036314	0.00221	26.55508	14.39928	0.8522161	0.7913567	0.7081816	-0.08317512
0.000496	0.00243	26.15068	33.04604	0.6936271	0.7959165	0.6590738	-0.1368427
0.017301	0.01066	19.72392	17.61934	0.8466741	0.7269245	0.6245432	-0.1023813
0.001773	0.00377	24.23237	27.51237	0.3580785	0.2937661	0.370001	0.076235
0.000231	2.86E-05	45.43557	36.35568	0.2449554	0.1478549	0.2283257	0.08047082
0.019979	0.00073	31.36603	16.99418	0.8480426	0.751468	0.6782604	-0.07320761
0.006716	0.00017	37.679	21.72896	0.7797607	0.6503399	0.743139	0.09279906
0.001466	2.34E-06	56.30244	28.34012	0.7311283	0.8544548	0.7695342	-0.0849206
0.035991	3.31E-06	54.80624	14.43801	0.2972638	0.6641219	0.7335346	0.06941269
0.035817	0.02188	16.60042	14.45906	0.7295147	0.4297057	0.6931834	0.2634777
0.036134	0.00181	27.43104	14.4208	0.8663696	0.7660027	0.816016	0.05001333
0.002696	0.00161	27.94127	25.69275	0.5832185	0.6434027	0.5825732	-0.06082951
0.000563	0.00209	26.78937	32.4917	0.7030917	0.8292195	0.7105049	-0.1187145
0.025433	0.01378	18.60695	15.94607	0.841756	0.9042231	0.85182	-0.05240307
0.042736	0.00233	26.32256	13.69209	0.21201	0.2907323	0.3773721	0.08663981
0.016458	0.00562	22.50062	17.83629	0.097412	0.1949556	0.2981094	0.1031537
0.001887	0.00044	33.57884	27.24273	0.7087456	0.7670869	0.7034897	-0.06359717
0.017792	0.01982	17.02917	17.49784	0.1086584	0.2031928	0.3007449	0.09755211
0.035569	0.00535	22.7204	14.48923	0.844704	0.6786387	0.5832934	-0.09534529
0.009589	0.00065	31.87797	20.18226	0.8110783	0.676524	0.7661098	0.08958579
0.024001	9.27E-06	50.32816	16.19766	0.8499595	0.6043109	0.5207755	-0.08353539
0.003216	0.00219	26.5951	24.92706	0.6577348	0.7809327	0.6839595	-0.09697314
0.023543	0.02234	16.50832	16.28133	0.6594551	0.7710513	0.6599045	-0.1111467
0.005841	0.00416	23.81387	22.33522	0.6467094	0.7634228	0.6647925	-0.09863036
0.013773	0.00076	31.16765	18.60983	0.8512354	0.7272558	0.6586396	-0.06861611

0.009595	0.00641	21.93477	20.1795	0.2775058	0.174317	0.2584005	0.08408347
0.012165	0.04974	13.03302	19.14903	0.900176	0.7381055	0.5066346	-0.2314709
0.024499	8.01E-05	40.9661	16.1086	0.2112079	0.56468	0.4502141	-0.1144659
0.02575	0.0191	17.1887	15.89231	0.8380233	0.7234791	0.8215191	0.09803998
0.010441	0.00275	25.60529	19.81252	0.6008164	0.7890326	0.6328141	-0.1562185
0.027832	0.03092	15.09769	15.55459	0.9229416	0.8216832	0.9269711	0.1052879
0.030164	0.00422	23.74187	15.20504	0.2842386	0.1430846	0.2328123	0.08972764
0.00314	1.88E-05	47.25632	25.03099	0.215009	0.1273006	0.204192	0.07689138
0.00016	0.00147	28.3127	37.94947	0.7667307	0.897401	0.7514966	-0.1459044
0.000702	0.00095	30.20316	31.53724	0.8265181	0.885645	0.8234675	-0.06217747
0.01646	1.46E-05	48.36999	17.83558	0.3875815	0.8423706	0.7165927	-0.1257778
0.035752	0.00979	20.09294	14.46705	0.5866592	0.6957754	0.7774763	0.08170082
0.022248	0.01627	17.88535	16.52711	0.8761352	0.7907487	0.8730911	0.08234239
0.002513	0.00576	22.39931	25.99871	0.8274786	0.9153263	0.8303978	-0.0849285
0.00643	0.00297	25.27719	21.91785	0.8545852	0.7938092	0.8460262	0.05221694
0.006702	0.00074	31.31712	21.73764	0.4541083	0.3682394	0.4315196	0.06328018
0.046445	0.00528	22.76993	13.33065	0.6776766	0.5551559	0.47257	-0.08258589
0.000735	4.28E-05	43.684	31.33714	0.1645671	0.0518508	0.1430346	0.0911838
0.047896	0.00207	26.84103	13.197	0.8171968	0.6579003	0.7309154	0.07301513
6.92E-05	1.66E-05	47.78976	41.59749	0.3458941	0.1641016	0.3350789	0.1709773
0.041211	0.02939	15.31731	13.84984	0.0477012	0.1176288	0.0553634	-0.06226542
0.000894	8.77E-08	70.568	30.48777	0.1445096	0.7147301	0.4469605	-0.2677696
0.046541	5.98E-05	42.232	13.32161	0.9336929	0.8416932	0.7913882	-0.05030508
0.036927	0.01152	19.38615	14.32659	0.4272667	0.3043728	0.3936885	0.08931569
0.026041	0.01985	17.0221	15.84349	0.704018	0.8627709	0.7288267	-0.1339442
0.003294	0.00062	32.04963	24.82241	0.6786137	0.7727289	0.6933386	-0.07939025
0.022205	0.00599	22.22364	16.53554	0.3564041	0.2147689	0.3156324	0.1008636
0.004437	0.00313	25.04249	23.52934	0.0694631	0.3791158	0.5919297	0.2128139
0.029593	0.00243	26.15032	15.28812	0.831975	0.6542947	0.7507602	0.09646546
0.019944	2.04E-07	66.91122	17.00183	0.5026401	0.8580323	0.7877037	-0.07032862
0.003976	0.00488	23.11676	24.00503	0.615041	0.5646985	0.4699712	-0.09472729
0.02515	0.01159	19.35796	15.99455	0.7175403	0.803103	0.7332146	-0.0698884
0.033849	0.0296	15.28745	14.70449	0.3432657	0.2159141	0.3395395	0.1236254
0.018618	0.01803	17.4411	17.30064	0.1064232	0.2512206	0.3810935	0.1298729
0.007106	0.03802	14.20031	21.48405	0.7473745	0.6917088	0.7447673	0.05305849
0.001046	0.00481	23.18058	29.80408	0.8783457	0.757848	0.8871677	0.1293197
0.001546	0.00331	24.80078	28.10877	0.6236781	0.7711532	0.629693	-0.1414601
0.021876	7.85E-06	51.04881	16.60029	0.1140209	0.6746526	0.5182917	-0.156361
4.47E-05	2.13E-05	46.70832	43.49313	0.3085662	0.1535763	0.3057322	0.1521558
0.000183	2.16E-05	46.65141	37.3765	0.8385966	0.9274763	0.8509475	-0.07652887
0.000807	0.00013	38.85626	30.93106	0.7009009	0.5104055	0.6582559	0.1478503
0.016856	0.01406	18.52058	17.73255	0.5264219	0.6603291	0.5380681	-0.1222611
0.000737	5.17E-05	42.86729	31.32687	0.534423	0.3401949	0.4794278	0.1392329
0.0002	0.00017	37.77469	36.98152	0.6622894	0.7836706	0.6637181	-0.1199525
0.027304	0.02774	15.56848	15.6377	0.9415418	0.7940817	0.6488124	-0.1452694
0.000631	0.00395	24.03628	31.99798	0.0346837	0.2728378	0.539785	0.2669472
0.040057	0.01056	19.76195	13.97321	0.87907	0.7802566	0.7196841	-0.0605725
0.018887	0.02474	16.06618	17.23828	0.8993826	0.8265201	0.7355856	-0.09093444
0.001704	0.00707	21.50701	27.68434	0.3932984	0.517525	0.6920149	0.1744898
0.041788	0.00063	32.01225	13.7895	0.7778522	0.45819	0.5700416	0.1118516
0.045945	0.0256	15.91679	13.37764	0.8921838	0.8157182	0.8778176	0.06209947
0.02168	0.00766	21.15644	16.63944	0.1670494	0.1037856	0.1629546	0.05916899
0.019746	0.0184	17.35255	17.04511	0.584425	0.6572056	0.5835242	-0.07368142
0.019678	0.01133	19.45685	17.06026	0.709994	0.4362598	0.6826086	0.2463488

0.017937	0.00415	23.81855	17.4625	0.3525988	0.2612328	0.1933602	-0.06787256
0.007225	3.78E-05	44.22768	21.41169	0.7850598	0.6732971	0.6166433	-0.05665382
0.007127	0.00799	20.97496	21.47117	0.8841178	0.9466249	0.8902642	-0.05636067
0.009257	0.00321	24.92999	20.33549	0.8813112	0.9515156	0.891781	-0.05973457
0.010632	0.0013	28.87039	19.73396	0.8481157	0.7498136	0.8185767	0.06876312
0.042117	0.00012	39.19631	13.75541	0.8820855	0.5173343	0.4354184	-0.08191586
0.03041	0.0231	16.36387	15.16985	0.8275203	0.6507632	0.8060969	0.1553338
0.004007	0.00807	20.93296	23.97157	0.8785462	0.8235763	0.7251804	-0.0983959
0.011461	0.02342	16.30335	19.40778	0.7573286	0.8206357	0.746791	-0.07384463
0.021333	0.02951	15.30046	16.70945	0.8040162	0.8676815	0.8143137	-0.05336774
0.003566	0.01055	19.76627	24.47878	0.7190672	0.7797278	0.7062945	-0.0734333
0.002672	0.00097	30.14607	25.73119	0.8155896	0.9042376	0.8313203	-0.07291729
0.037404	0.00622	22.0594	14.27087	0.8559745	0.602963	0.4703295	-0.1326335
0.003471	0.00289	25.39038	24.59583	0.7539331	0.6571405	0.7584098	0.1012693
0.033983	0.03803	14.19831	14.68741	0.8413743	0.781961	0.8476819	0.06572093
0.009405	0.00242	26.16547	20.26621	0.0724765	0.1660778	0.2356443	0.06956649
0.028366	0.01548	18.10312	15.472	0.7031201	0.5954078	0.6683666	0.07295879
0.040186	0.00038	34.15847	13.9592	0.7737446	0.5361454	0.6271579	0.09101249
0.021849	0.01055	19.7695	16.60563	0.585991	0.6681468	0.6006647	-0.06748214
0.046671	0.04586	13.38603	13.30955	0.1230987	0.2286912	0.3144627	0.08577149
0.037178	0.02128	16.72127	14.29714	0.706624	0.7868374	0.7247527	-0.06208466
0.001209	0.01284	18.91371	29.17555	0.7944571	0.8800089	0.7381153	-0.1418937
6.88E-06	1.92E-06	57.17078	51.62722	0.1803829	0.075175	0.1609816	0.08580658
0.000722	0.03525	14.52793	31.41201	0.342877	0.4766661	0.3073113	-0.1693548
0.000386	2.16E-05	46.65054	34.13044	0.7918611	0.7087058	0.7644095	0.05570367
0.002396	0.00616	22.10518	26.20597	0.6082405	0.6796084	0.5962969	-0.08331151
0.048833	0.04319	13.64629	13.11286	0.1564499	0.1011267	0.1549264	0.05379974
0.00881	0.0038	24.20688	20.55004	0.8874396	0.8328485	0.7823126	-0.05053599
0.002401	3.27E-05	44.86092	26.19534	0.133726	0.037787	0.0884298	0.05064278
0.037717	0.02624	15.81042	14.23458	0.8725824	0.7714911	0.6332417	-0.1382494
0.003622	0.00515	22.88424	24.41102	0.1773397	0.2784824	0.1972211	-0.08126131
0.019102	0.00013	38.8625	17.18921	0.6690806	0.8246222	0.7736745	-0.05094771
0.016744	0.02187	16.60234	17.76134	0.5374199	0.7295956	0.5321918	-0.1974039
0.032627	0.01946	17.1075	14.86428	0.8898636	0.7838845	0.8762872	0.09240276
0.023778	0.00014	38.54286	16.23825	0.5439779	0.6593369	0.5633348	-0.09600218
0.042656	0.01133	19.45639	13.70021	0.2167946	0.1252717	0.1834986	0.05822689
0.035071	0.01348	18.70178	14.5505	0.1737618	0.2822109	0.3875338	0.1053229
0.000231	5.35E-06	52.7165	36.35954	0.1705488	0.0953702	0.1570117	0.0616415
0.016309	0.00182	27.39972	17.87582	0.8847085	0.7885925	0.8466563	0.05806379
0.012202	0.00099	30.02981	19.13572	0.8235738	0.7400982	0.6740611	-0.06603715
0.005843	0.00974	20.1164	22.33348	0.8652324	0.7620417	0.8816172	0.1195755
0.001203	0.00153	28.14824	29.19615	0.7396404	0.8019071	0.7473922	-0.05451488
0.000918	0.00098	30.10211	30.36945	0.1310526	0.0679185	0.1252291	0.05731056
0.044641	0.00038	34.21241	13.50267	0.0760454	0.1833347	0.281413	0.09807831
0.018599	0.00382	24.17623	17.30519	0.1554134	0.0634645	0.1251459	0.0616814
0.007542	0.00117	29.32024	21.22519	0.113949	0.0597172	0.1175445	0.05782731
0.02372	8.49E-07	60.71275	16.24891	0.3668363	0.8548797	0.7686263	-0.0862535
0.011148	0.00183	27.38486	19.52821	0.7661666	0.5757003	0.4541242	-0.1215761
0.015936	0.00744	21.28222	17.97611	0.8532792	0.7841276	0.8378162	0.05368863
0.01817	0.01085	19.64411	17.40643	0.8199441	0.9038744	0.8372055	-0.06666888
0.003776	0.04614	13.35959	24.22991	0.8586472	0.9086965	0.816986	-0.09171055
0.008378	0.01158	19.36409	20.76874	0.5295966	0.6014496	0.5308235	-0.07062609
0.003187	0.00062	32.09681	24.9659	0.8420681	0.753866	0.8199077	0.06604175
0.032393	0.00451	23.46061	14.8955	0.832325	0.7211224	0.7851638	0.06404135



0.001008	2.00E-06	56.98148	29.96752	0.2437121	0.1291445	0.2238247	0.09468018
0.016262	0.01125	19.48789	17.88823	0.9091142	0.8430538	0.9003931	0.05733935
0.035377	0.03931	14.05445	14.51278	0.7013682	0.7525046	0.6829569	-0.06954782
0.028967	0.01102	19.57893	15.38094	0.8922026	0.7752272	0.8589214	0.0836942
0.044464	8.73E-05	40.59136	13.51993	0.0872217	0.5492446	0.6504372	0.1011925
0.012614	0.00113	29.45676	18.99135	0.2269457	0.457254	0.596891	0.139637
0.018535	0.01942	17.11719	17.32014	0.1927543	0.1281636	0.217367	0.08920335
0.027692	0.03834	14.16389	15.57645	0.7212682	0.7848731	0.7157716	-0.0691015
0.002073	0.00154	28.11287	26.83443	0.9009713	0.8452187	0.8980547	0.05283597
0.01498	0.00055	32.56889	18.24484	0.6629123	0.8015811	0.6770056	-0.1245756
0.032816	0.01229	19.10482	14.83914	0.7636808	0.8359916	0.7797523	-0.05623933
0.007451	0.00527	22.77818	21.27761	0.8276599	0.7664193	0.8236889	0.05726959
0.000924	0.00103	29.88622	30.34345	0.7014192	0.8384289	0.7076654	-0.1307634
0.008533	0.00331	24.80796	20.68878	0.1126762	0.2081765	0.1281411	-0.0800354
0.01992	2.61E-06	55.83744	17.0071	0.2583545	0.6547372	0.7321563	0.07741909
0.01225	0.017	17.69464	19.11866	0.8349441	0.8962891	0.82981	-0.06647909
0.047734	6.37E-07	61.96019	13.2117	0.1376045	0.6634478	0.7373904	0.07394262
0.020885	0.001	30.01691	16.80156	0.8028003	0.655047	0.7251943	0.0701473
0.021552	0.00363	24.40315	16.66517	0.8741937	0.7168549	0.6282095	-0.08864544
0.000879	0.00083	30.82093	30.55975	0.1529108	0.0954556	0.1462197	0.05076414
0.008069	0.008	20.96918	20.93194	0.487193	0.3934825	0.4843485	0.09086598
0.029185	0.02686	15.70956	15.34839	0.4186631	0.2121253	0.4117	0.1995747
0.003442	0.00844	20.7377	24.63191	0.1048052	0.0350717	0.1190131	0.08394133
0.024891	0.00313	25.04963	16.03956	0.8094822	0.6122628	0.7363123	0.1240495
0.00643	0.01696	17.70527	21.91762	0.3857292	0.2829349	0.4105911	0.1276562
0.005973	0.00164	27.84851	22.2381	0.886831	0.6562451	0.826474	0.1702289
0.003789	0.00223	26.5132	24.21512	0.8528701	0.9336331	0.8660246	-0.06760855
0.016823	0.00734	21.3414	17.74104	0.4211685	0.289772	0.4044783	0.1147063
0.040253	0.03812	14.18807	13.95204	0.9116156	0.8180125	0.9131105	0.09509798
0.017189	0.00585	22.32638	17.64737	0.7746038	0.8597091	0.8001323	-0.05957682
0.047507	0.00286	25.43656	13.23242	0.2482853	0.4547869	0.3449865	-0.1098004
0.019096	0.04313	13.65189	17.19054	0.518419	0.7591079	0.6411993	-0.1179086
0.000279	0.00051	32.92128	35.54443	0.5896292	0.7123409	0.5761732	-0.1361677
0.011593	0.00046	33.35348	19.35792	0.8975275	0.7226162	0.7949855	0.07236931
0.004836	0.00719	21.43019	23.1549	0.9129673	0.7685145	0.6217888	-0.1467257
0.036763	0.00854	20.68605	14.34594	0.5820926	0.7849283	0.6695421	-0.1153861
0.00814	0.0241	16.18018	20.89393	0.6684163	0.7706639	0.6212245	-0.1494393
0.00025	8.92E-05	40.49758	36.01339	0.8899534	0.7608728	0.6440461	-0.1168267
0.002832	0.00124	29.05465	25.47894	0.863762	0.9324061	0.8644049	-0.06800121
0.023878	0.00107	29.71357	16.22005	0.7630971	0.6102485	0.5160984	-0.09415012
0.018949	0.01873	17.27384	17.22411	0.2386819	0.1493155	0.2364044	0.08708887
0.007685	1.48E-05	48.29704	21.14337	0.9052359	0.8248034	0.7355486	-0.08925478
4.83E-05	0.0041	23.86888	43.15837	0.8460572	0.9001708	0.7713272	-0.1288436
0.007539	0.00616	22.10281	21.22681	0.5457659	0.6384278	0.7178547	0.07942687
0.014603	0.0303	15.18619	18.35558	0.6132519	0.6904329	0.5952236	-0.09520926
0.020348	0.00434	23.62121	16.91475	0.7807004	0.6624193	0.7376086	0.07518921
0.017002	0.00108	29.6502	17.69511	0.8256353	0.6785418	0.7551844	0.07664254
0.017258	0.04469	13.49767	17.63006	0.8368638	0.7509538	0.8676575	0.1167037
0.003021	0.00441	23.55616	25.19909	0.7301213	0.8502703	0.7264882	-0.1237822
5.66E-05	1.90E-05	47.21909	42.47436	0.0875391	0.0255118	0.079064	0.05355215
5.65E-05	0.00048	33.21745	42.47871	0.8041831	0.8784835	0.7972633	-0.08122015
0.001737	0.00074	31.31563	27.601	0.8364162	0.7355673	0.827033	0.09146567
0.024497	0.00049	33.12566	16.10886	0.1759355	0.3401384	0.4670423	0.1269039
0.000828	0.00081	30.89257	30.82206	0.0947669	0.1997242	0.0985822	-0.1011419

0.030364	0.0027	25.68518	15.17642	0.8846929	0.6542678	0.5426177	-0.1116501
0.025447	0.03042	15.16823	15.94367	0.8328137	0.6779376	0.8421047	0.1641671
0.001842	0.00119	29.2536	27.3462	0.1775954	0.1026274	0.1656059	0.06297851
0.010152	0.00359	24.44996	19.93433	0.8394227	0.7651638	0.8255345	0.06037062
0.013921	0.00784	21.0577	18.56333	0.7839534	0.8834448	0.8013004	-0.08214439
0.019456	0.03367	14.72798	17.10953	0.9070254	0.8115885	0.6980819	-0.1135066
0.011557	0.00654	21.84252	19.37169	0.5156046	0.6601448	0.527664	-0.1324808
0.010636	0.00669	21.74689	19.73241	0.7944658	0.8929911	0.8150433	-0.07794785
0.013678	0.01483	18.28963	18.63966	0.1348077	0.0798233	0.1311327	0.05130944
0.018069	0.00031	35.02917	17.43069	0.1519144	0.390087	0.5023879	0.1123009
0.040442	0.01203	19.19817	13.93167	0.9119672	0.6106327	0.434553	-0.1760797
0.010962	0.00684	21.64747	19.60097	0.259767	0.4751358	0.6814863	0.2063505
0.033792	0.01926	17.15346	14.71189	0.9036472	0.8145307	0.8938245	0.0792937
0.010921	0.0106	19.74519	19.61745	0.051869	0.1305389	0.0580128	-0.07252607
0.003238	0.00235	26.28153	24.89759	0.2470626	0.1673009	0.2426856	0.07538465
0.023837	0.01888	17.24026	16.22748	0.8426586	0.9020544	0.8511661	-0.05088835
0.016348	0.01152	19.38522	17.86532	0.3752319	0.1946463	0.3407126	0.1460664
0.00195	0.00197	27.05961	27.10061	0.2540096	0.3577033	0.4538606	0.09615736
0.006229	0.00582	22.349	22.05606	0.5311131	0.597092	0.5323272	-0.06476475
0.009445	0.00766	21.155	20.24777	0.6664261	0.7262045	0.6562234	-0.06998108
0.00061	0.00035	34.54455	32.14813	0.7982538	0.8936225	0.8054742	-0.08814825
0.039803	0.00607	22.16778	14.00088	0.8221874	0.6657009	0.7515357	0.08583479
0.001684	0.00043	33.6389	27.73578	0.1784214	0.0916606	0.1653032	0.07364267
0.020369	0.00334	24.76096	16.9102	0.697953	0.4872347	0.6275758	0.140341
0.037873	0.00822	20.85096	14.21669	0.816757	0.7027668	0.6238098	-0.07895712
0.010989	0.01256	19.00992	19.59059	0.4749024	0.5354822	0.4745207	-0.0609616
0.042066	0.00019	37.10992	13.76072	0.5372443	0.8007945	0.8601866	0.05939212
0.027203	0.00011	39.46228	15.65389	0.6267237	0.4422626	0.5119032	0.06964061
0.041882	0.02076	16.82789	13.77973	0.9674441	0.8443621	0.7567675	-0.08759463
0.002355	0.00131	28.82736	26.28006	0.1063912	0.0501426	0.1011391	0.05099649
0.003118	0.00017	37.57172	25.06124	0.6834118	0.6166177	0.6767687	0.06015098
0.008904	0.00523	22.81645	20.50417	0.3368263	0.1720547	0.3119686	0.1399139
0.006546	0.00171	27.68215	21.84054	0.1550333	0.0530965	0.1294089	0.07631241
0.004775	0.0147	18.32819	23.21018	0.5745845	0.6304031	0.5582634	-0.07213965
0.018321	0.0109	19.62719	17.37044	0.764365	0.8656228	0.7876387	-0.07798413
0.022154	0.0225	16.47908	16.54552	0.6986285	0.7673646	0.6976262	-0.06973843
0.002896	0.00972	20.12173	25.38268	0.2223583	0.1435996	0.2464045	0.1028049
0.042587	0.00058	32.39602	13.7072	0.8030733	0.6665914	0.607214	-0.05937739
0.039083	0.00066	31.77399	14.08012	0.8290676	0.7470106	0.6788375	-0.06817313
0.011931	0.00056	32.5407	19.23313	0.8663232	0.7630904	0.8192724	0.05618197
0.006299	0.03877	14.11492	22.00751	0.9501576	0.8881557	0.7921425	-0.09601317
0.038275	0.02817	15.50181	14.17085	0.8655463	0.7592082	0.85669	0.09748178
0.038849	0.01035	19.84853	14.1062	0.7743295	0.6686431	0.5935612	-0.07508191
0.003247	0.00326	24.87119	24.88471	0.6421345	0.708711	0.644989	-0.063722
0.005409	0.00121	29.16548	22.66856	0.8444292	0.7701588	0.8267548	0.05659603
0.039868	0.02371	16.25088	13.99371	0.7847386	0.8604759	0.7904312	-0.07004466
0.026789	0.00676	21.70161	15.72047	0.1957745	0.2829402	0.3843893	0.1014491
0.035232	0.03685	14.33514	14.53064	0.9069084	0.8360592	0.7490728	-0.08698642
0.043637	0.00044	33.57752	13.60145	0.2046559	0.4654158	0.3615915	-0.1038243
0.000568	0.00099	30.05113	32.45579	0.6311185	0.8220291	0.6309857	-0.1910434
0.000401	6.71E-05	41.73309	33.96469	0.1362548	0.0577975	0.1118282	0.05403071
0.019476	0.04638	13.33688	17.1051	0.6598051	0.7200098	0.6422638	-0.07774603
0.035805	0.04179	13.78878	14.4605	0.8871581	0.7215884	0.523468	-0.1981204
5.10E-05	0.00094	30.25656	42.92491	0.7092766	0.7796314	0.6603683	-0.1192631

0.016698	0.0079	21.02163	17.77339	0.4933271	0.5838583	0.4994686	-0.08438972
0.015439	0.00023	36.40261	18.11368	0.1158328	0.0344682	0.0921469	0.05767868
5.45E-07	2.14E-07	66.70256	62.63376	0.2185681	0.0816261	0.2125339	0.1309078
0.007381	0.00778	21.08826	21.31911	0.8696029	0.9418087	0.8684899	-0.07331884
0.016926	0.01929	17.14677	17.71434	0.3351941	0.2446452	0.3308645	0.08621936
0.000211	8.89E-05	40.51239	36.75891	0.8453029	0.777047	0.8367462	0.05969913
0.02162	0.04731	13.25018	16.65153	0.1511669	0.09687	0.1649944	0.06812444
0.00024	0.00014	38.50374	36.20171	0.1404226	0.0886746	0.1415946	0.05292001
0.042025	0.00677	21.69222	13.76489	0.8669117	0.749663	0.8149793	0.06531627
0.001549	0.01019	19.91982	28.09944	0.6858429	0.7492408	0.6636232	-0.08561768
0.025743	0.00399	23.98698	15.89344	0.8783978	0.7641487	0.8275278	0.06337912
0.01449	0.00158	28.00397	18.38932	0.8360287	0.6678355	0.7662128	0.09837728
0.00872	0.00777	21.09753	20.59492	0.6667843	0.8352548	0.6552642	-0.1799906
0.019346	0.00396	24.02695	17.134	0.157847	0.2511029	0.3155941	0.06449129
0.003472	0.00817	20.87901	24.59425	0.7950804	0.9021081	0.7845173	-0.1175908
0.007184	0.01656	17.80865	21.43661	0.283533	0.2022149	0.294451	0.09223611
0.003536	0.00031	35.07821	24.51489	0.3530461	0.6935573	0.7804466	0.08688933
0.01246	0.00447	23.49729	19.04492	0.8079814	0.6881542	0.7808483	0.09269414
0.002022	0.00319	24.96013	26.94223	0.1474988	0.0868817	0.1450258	0.05814416
0.041361	0.02271	16.43692	13.83412	0.8782173	0.7735075	0.6750068	-0.09850066
0.011811	0.02095	16.78871	19.27718	0.8820777	0.810606	0.8920247	0.08141868
0.007263	0.00036	34.40041	21.38864	0.1984176	0.1053253	0.164529	0.0592037
0.000111	0.00016	37.82697	39.55202	0.0943276	0.0415026	0.0926652	0.05116263
0.026143	0.00178	27.50661	15.82653	0.912908	0.6970372	0.6168825	-0.08015466
7.57E-05	0.0004	34.01965	41.21091	0.1640241	0.1001019	0.162819	0.0627171
0.03455	0.01449	18.3893	14.61547	0.9085307	0.8174381	0.8882143	0.07077616
0.030438	0.00476	23.22219	15.1659	0.8715787	0.8139371	0.7307563	-0.08318085
6.84E-05	5.32E-05	42.73915	41.64909	0.6392355	0.7013712	0.6407294	-0.06064178
0.012574	0.00195	27.09835	19.00521	0.7944141	0.7024285	0.7830738	0.08064526
0.010672	0.00165	27.81973	19.7176	0.9084474	0.8428393	0.7903571	-0.05248218
0.000451	0.00141	28.50772	33.46075	0.6499899	0.7485829	0.6169131	-0.1316698
0.002925	0.00135	28.70894	25.33845	0.768291	0.8842019	0.763083	-0.1211189
0.012107	0.00556	22.55189	19.16964	0.217118	0.3675364	0.488221	0.1206846
0.017608	0.00032	34.89207	17.54285	0.8528741	0.6794336	0.753021	0.07358737
0.002166	0.00312	25.05633	26.64268	0.8811136	0.828759	0.8894042	0.06064521
0.005797	0.00376	24.2477	22.36776	0.621938	0.7418582	0.6286232	-0.113235
0.014945	0.00843	20.73944	18.2549	0.8819209	0.9474892	0.8911201	-0.05636908
0.006411	0.04019	13.95846	21.93101	0.4799423	0.4246492	0.5182576	0.09360833
0.001577	0.00152	28.17604	28.02203	0.5961592	0.4976486	0.5832505	0.08560189
0.010132	0.02743	15.61839	19.94309	0.4378321	0.5051387	0.4231931	-0.08194559
0.002202	0.00073	31.38882	26.57165	0.7386282	0.5974339	0.4759504	-0.1214834
0.001179	0.00173	27.62024	29.28657	0.9133481	0.7732265	0.6278375	-0.145389
0.000447	8.22E-05	40.85263	33.49248	0.1459696	0.0743767	0.1297472	0.05537055
0.00207	0.00208	26.8119	26.84005	0.7988182	0.7091413	0.7981455	0.08900429
8.82E-06	0.00069	31.60557	50.54596	0.43909	0.5223645	0.4032281	-0.1191364
0.024726	0.01153	19.38205	16.0684	0.4318124	0.6681941	0.4769671	-0.191227
0.019765	0.01036	19.8463	17.04102	0.441159	0.3720948	0.4297959	0.05770113
0.018435	0.0041	23.87184	17.34347	0.0793845	0.1906445	0.2878193	0.09717481
0.01688	0.00955	20.20011	17.72616	0.9009523	0.7911708	0.8936548	0.1024839
0.020175	0.00258	25.89086	16.95192	0.834689	0.7575055	0.7008772	-0.05662831
0.041472	0.00078	31.07705	13.82249	0.8341655	0.5944046	0.7012402	0.1068357
0.017062	0.00545	22.63359	17.67965	0.240691	0.1677472	0.2219553	0.05420811
0.049687	2.75E-05	45.60328	13.03758	0.1681556	0.5385923	0.618023	0.07943064
0.020277	0.01578	18.01824	16.93	0.1508605	0.0956291	0.1485657	0.05293656

0.006015	0.00256	25.91811	22.20781	0.9004156	0.7611092	0.6057993	-0.1553099
0.025215	0.02917	15.35084	15.98348	0.8306775	0.6548346	0.4817193	-0.1731153
0.000702	0.00163	27.88944	31.53575	0.2450159	0.1391628	0.2425432	0.1033804
0.003459	0.00971	20.12877	24.6101	0.6536613	0.7358405	0.6202589	-0.1155816
0.041196	0.03856	14.13839	13.85149	0.1562941	0.1016896	0.1556046	0.05391495
0.048568	0.00684	21.64663	13.13646	0.8258757	0.6362913	0.5096664	-0.1266248
0.001274	1.36E-05	48.6491	28.94724	0.1297729	0.0437481	0.1022946	0.05854651
0.032976	0.00041	33.82043	14.81805	0.8875591	0.9501907	0.8713609	-0.07882974
0.000352	8.07E-05	40.93087	34.53178	0.1332181	0.0473459	0.1313039	0.08395794
0.041847	0.0017	27.69473	13.78337	0.7685526	0.5621147	0.4758814	-0.08623326
0.011578	0.00587	22.31557	19.3635	0.7421334	0.8623465	0.7696545	-0.09269202
0.040175	0.03126	15.0496	13.96048	0.670701	0.7700848	0.6812233	-0.08886153
0.006188	0.00411	23.86604	22.08476	0.5321325	0.6207036	0.6918835	0.07117991
0.00681	0.00036	34.41936	21.66869	0.1289663	0.0772026	0.1347615	0.05755894
0.038539	0.03622	14.4108	14.141	0.8049555	0.6697528	0.7999339	0.1301811
0.030503	0.00382	24.17841	15.15657	0.7846625	0.6305857	0.7203039	0.08971822
0.010104	2.67E-05	45.72891	19.95489	0.7469409	0.4439385	0.5495521	0.1056137
0.032686	0.02247	16.48368	14.85632	0.8745717	0.776148	0.6873235	-0.08882453
0.006128	0.00424	23.73064	22.12687	0.4441483	0.5508446	0.4505635	-0.100281
0.04172	0.01332	18.75418	13.79653	0.7530802	0.8350755	0.7764938	-0.05858162
0.003871	0.01141	19.42786	24.12203	0.7636502	0.843846	0.7429487	-0.1008974
0.008836	0.04873	13.12213	20.53746	0.1152573	0.2399473	0.4424548	0.2025075
0.000303	0.00046	33.37447	35.17984	0.8095897	0.8795276	0.8018017	-0.07772588
0.001993	0.01582	18.00689	27.00546	0.9166628	0.8605977	0.7653393	-0.09525849
0.029301	0.00126	28.99312	15.33112	0.8218785	0.9273254	0.8731863	-0.05413913
0.007365	0.00919	20.36783	21.32845	0.5559548	0.6508669	0.560183	-0.09068387
0.032082	1.99E-05	47.01981	14.93737	0.2061945	0.4298836	0.3505648	-0.07931874
0.001661	0.00054	32.6814	27.79661	0.1543344	0.082606	0.1414789	0.05887292
0.001091	0.00033	34.87727	29.62363	0.3637175	0.252188	0.3516194	0.09943135
0.001995	0.00463	23.34537	27.00124	0.6338305	0.7920623	0.6318465	-0.1602158
0.013132	0.01931	17.1422	18.81663	0.6048432	0.6932561	0.6020057	-0.09125043
0.017005	7.79E-06	51.08606	17.6942	0.7994234	0.6433442	0.5686213	-0.074723
0.001576	0.00013	38.83653	28.02514	0.7819187	0.6851947	0.7518679	0.06667319
0.023283	0.01937	17.12919	16.32954	0.0864503	0.1677065	0.2356941	0.06798757
0.029645	0.00268	25.71435	15.28046	0.9134762	0.8117587	0.7353335	-0.07642524
0.004878	0.01358	18.6714	23.1173	0.4204141	0.5247721	0.4095318	-0.1152403
0.021207	0.02902	15.37304	16.73515	0.5675525	0.6646591	0.5660585	-0.09860072
0.029753	0.00099	30.03936	15.26466	0.8056824	0.6416603	0.7222152	0.08055498
0.008697	0.00087	30.615	20.6064	0.8825242	0.75822	0.8354421	0.0772221
0.001006	6.01E-05	42.21405	29.97213	0.2346766	0.1309417	0.2142305	0.08328883
0.035681	0.01946	17.10959	14.47561	0.7214873	0.8532171	0.7545813	-0.09863575
0.010763	0.01675	17.76034	19.68054	0.4823015	0.5897541	0.4537551	-0.135999
0.010383	2.29E-05	46.40982	19.83685	0.8384587	0.6578962	0.5910005	-0.0668957
0.036181	0.00343	24.64295	14.41519	0.099388	0.1779565	0.2337313	0.05577487
0.01436	0.0406	13.91485	18.42837	0.0311203	0.1464325	0.2934128	0.1469804
0.040848	0.01769	17.52228	13.88825	0.186454	0.1079781	0.1666996	0.05872151
8.89E-05	1.65E-05	47.82878	40.51085	0.1414942	0.0505165	0.1316341	0.08111764
0.00132	0.00283	25.48918	28.79412	0.5258819	0.6403053	0.5057529	-0.1345524
0.019354	0.00963	20.16514	17.13239	0.6131977	0.7119209	0.6130224	-0.09889851
0.023736	0.00249	26.03657	16.24585	0.7960529	0.5859077	0.4792497	-0.106658
0.005932	0.00427	23.69594	22.26799	0.8478909	0.7136443	0.6035884	-0.1100559
0.001072	0.00264	25.77704	29.69973	0.6147451	0.7040343	0.614296	-0.0897384
0.014278	6.85E-05	41.64535	18.45332	0.8931596	0.8273606	0.7484697	-0.07889086
0.011924	0.00844	20.73653	19.23574	0.1759783	0.1126859	0.1727983	0.06011241

0.034635	0.01277	18.93663	14.60487	0.8524097	0.7040111	0.8161157	0.1121046
0.008439	0.00762	21.17784	20.73713	0.8750549	0.9285798	0.8764192	-0.05216061
0.001188	0.00012	39.14045	29.2504	0.7655112	0.6748145	0.7375737	0.06275926
0.013138	0.0005	32.97068	18.81461	0.503889	0.2980875	0.4069151	0.1088276
0.002965	0.00092	30.36638	25.28029	0.8690875	0.6981679	0.8156298	0.1174619
0.003612	0.01117	19.52043	24.4231	0.7786074	0.8835391	0.7714781	-0.1120609
0.023322	0.03453	14.61854	16.32237	0.8758501	0.9273065	0.8699602	-0.05734638
0.023876	0.01695	17.70751	16.22036	0.3747399	0.2766497	0.3700025	0.09335283
0.04075	0.01105	19.56732	13.89876	0.1759381	0.2412336	0.329952	0.0887184
0.03667	0.01159	19.36093	14.35687	0.8527848	0.750553	0.8280992	0.07754629
0.039951	0.00452	23.45191	13.98472	0.8417891	0.6680857	0.7678199	0.09973419
0.044578	0.00994	20.0272	13.50878	0.5427289	0.7353939	0.6277174	-0.1076766
0.006964	0.00214	26.69285	21.57141	0.8550021	0.597638	0.7715341	0.1738962
0.03418	0.00693	21.59049	14.66229	0.2275151	0.3267866	0.4040522	0.07726561
0.041972	0.02831	15.48001	13.77037	0.8414884	0.7671955	0.8336191	0.06642354
0.01071	0.00591	22.28718	19.70201	0.866626	0.782506	0.6540799	-0.1284261
5.20E-06	0.00016	37.91614	52.84081	0.3776332	0.4929963	0.3424351	-0.1505612
0.010733	0.02113	16.75176	19.69299	0.4390522	0.2741174	0.4540571	0.1799397
6.41E-05	4.12E-06	53.849	41.93376	0.8434425	0.6297968	0.4823494	-0.1474474
0.004346	0.00231	26.36921	23.61946	0.7632099	0.6608627	0.7490853	0.08822262
0.002919	0.00086	30.65919	25.34722	0.2096941	0.0874575	0.1769055	0.08944808
0.005502	0.00063	31.98406	22.59466	0.5617258	0.6350892	0.5282158	-0.1068733
0.006232	0.00024	36.27785	22.05351	0.8751289	0.739727	0.8181447	0.07841766
5.57E-05	0.00013	39.0055	42.53886	0.2486492	0.1507512	0.2551285	0.1043772
0.001443	0.00458	23.39387	28.40676	0.8930255	0.9498128	0.8407353	-0.1090774
0.001271	0.00235	26.29227	28.96003	0.5652241	0.7656714	0.5585362	-0.2071353
0.043819	0.01496	18.24992	13.5834	0.7693149	0.6020796	0.7132866	0.111207
0.049825	0.02154	16.66726	13.02552	0.8373588	0.7609553	0.8226334	0.06167806
0.011139	0.00046	33.40366	19.5317	0.4721831	0.6684421	0.5577332	-0.1107089
0.003161	0.02408	16.18399	25.00193	0.7953839	0.8734941	0.7569898	-0.1165043
0.020065	0.00634	21.98144	16.97571	0.8878606	0.6133899	0.8002213	0.1868313
0.033038	0.00851	20.70225	14.80984	0.7721305	0.8750432	0.8104981	-0.06454508
0.044196	0.02808	15.51589	13.54621	0.0631767	0.1481446	0.0741006	-0.07404404
0.014067	0.00614	22.11847	18.51794	0.7801541	0.9086261	0.8149676	-0.09365855
0.032396	0.02056	16.87078	14.89503	0.1489201	0.2550073	0.34839	0.09338267
0.010613	0.00044	33.58856	19.74168	0.6978843	0.7892804	0.6984658	-0.09081456
0.007823	0.01524	18.17035	21.06599	0.8945993	0.9467058	0.8854893	-0.06121651
0.005071	0.00179	27.46229	22.94866	0.0800801	0.3239078	0.4766944	0.1527866
0.012473	0.0483	13.16062	19.04044	0.5834975	0.6804512	0.5207565	-0.1596947
0.000317	0.00062	32.06088	34.99131	0.2234114	0.0809224	0.1826568	0.1017344
0.002583	0.00175	27.55906	25.87914	0.8075091	0.6959768	0.8029265	0.1069497
0.041735	0.02284	16.41226	13.795	0.8549842	0.7915405	0.8437543	0.05221382
0.003407	0.00613	22.12251	24.67672	0.6716145	0.7681687	0.6556533	-0.1125155
0.011984	4.80E-06	53.187	19.21396	0.1529826	0.6318038	0.6917852	0.05998136
0.049876	0.00178	27.48932	13.02107	0.8471181	0.6567072	0.570232	-0.08647513
0.021282	0.04222	13.74457	16.71987	0.0318599	0.1074812	0.2482448	0.1407637
0.029067	0.01587	17.9956	15.36601	0.2722085	0.1891307	0.2555382	0.06640756
1.44E-05	4.69E-05	43.29267	48.40139	0.8085843	0.8804119	0.793281	-0.08713092
0.033414	0.00248	26.05939	14.76073	0.4383321	0.2808611	0.3663655	0.08550439
0.014037	0.01063	19.73596	18.52736	0.898126	0.8195716	0.9033545	0.08378287
0.017993	0.04091	13.88148	17.44898	0.8691821	0.8117664	0.8836876	0.0719212
0.003284	0.00345	24.61678	24.83561	0.141362	0.2457259	0.3507319	0.105006
0.000771	0.00319	24.9563	31.13219	0.4993812	0.5732235	0.4916999	-0.08152357
0.025822	0.04286	13.67927	15.88006	0.6643877	0.7371232	0.6433578	-0.09376539

0.004239	0.002	27.00037	23.72736	0.8425575	0.7717481	0.8348945	0.06314645
0.001534	0.00098	30.07281	28.14091	0.4098396	0.1312707	0.4532148	0.3219441
0.043321	0.00642	21.92302	13.63302	0.9138004	0.755254	0.6458983	-0.1093557
0.039055	0.00087	30.61051	14.08319	0.2789551	0.5394983	0.6399912	0.100493
0.041396	0.04221	13.74616	13.83044	0.7243595	0.8321725	0.7267619	-0.1054106
0.018385	0.00067	31.72477	17.35542	0.4966359	0.670002	0.5841464	-0.08585551
0.0299	0.04467	13.49985	15.24332	0.3621761	0.429004	0.3495777	-0.07942635
0.000153	6.20E-05	42.0737	38.15108	0.7269099	0.8011276	0.7087839	-0.09234372
6.39E-05	0.00089	30.51063	41.94466	0.5719419	0.6914313	0.5133159	-0.1781154
0.016909	0.02116	16.74516	17.71888	0.4780467	0.5938557	0.7212178	0.1273621
0.016382	0.01306	18.84084	17.85643	0.2536933	0.476796	0.5950513	0.1182554
0.01711	0.02203	16.56924	17.66746	0.6767436	0.7977064	0.673143	-0.1245634
0.006855	0.00438	23.58059	21.63988	0.7868829	0.6462458	0.5266924	-0.1195534
0.016596	0.03431	14.6463	17.80009	0.8453214	0.8988517	0.8342717	-0.06457998
0.021346	0.00698	21.5622	16.70682	0.8369941	0.7274331	0.8130098	0.08557665
9.27E-05	7.77E-08	71.09532	40.32897	0.0956288	0.0213224	0.0818882	0.06056583
0.044289	0.00671	21.73158	13.53702	0.8159444	0.8996959	0.8493729	-0.05032296
0.005784	0.00406	23.91419	22.37809	0.7314088	0.8696977	0.7581981	-0.1114996
0.016425	0.01364	18.65071	17.84488	0.6775744	0.8162892	0.6921538	-0.1241354
0.026768	0.02375	16.24373	15.72392	0.8487663	0.775377	0.8471147	0.07173782
0.019858	0.00084	30.73927	17.02062	0.8597565	0.6835938	0.6026217	-0.08097213
1.34E-05	0.00024	36.28005	48.71737	0.7042463	0.7845737	0.6627133	-0.1218604
9.46E-05	1.68E-05	47.75507	40.24233	0.0858002	0.362343	0.538142	0.1757991
0.002126	0.00109	29.62996	26.72357	0.6832601	0.7532699	0.7014595	-0.05181036
0.011341	0.00259	25.86452	19.4533	0.843511	0.7181897	0.8086159	0.09042618
0.023093	0.02888	15.3939	16.36518	0.3797977	0.5179551	0.3672433	-0.1507117
0.046051	0.04141	13.82932	13.36758	0.1446364	0.2263196	0.1511494	-0.07517015
0.004027	0.00769	21.13914	23.95038	0.8463681	0.9201806	0.8421178	-0.07806271
0.011047	0.00327	24.85598	19.56751	0.7103135	0.8595095	0.753417	-0.1060925
0.035872	0.04998	13.01247	14.45244	0.6436785	0.6964194	0.6378934	-0.05852593
0.005831	0.00053	32.72471	22.34278	0.3475706	0.2225274	0.3242309	0.1017035
0.030608	0.01826	17.38578	15.14162	0.4624383	0.3448785	0.4440411	0.09916266
0.013418	0.00437	23.59313	18.72312	0.6146061	0.7126869	0.7640205	0.05133356
0.002987	2.43E-05	46.14392	25.24808	0.8027357	0.7101343	0.7695978	0.05946345
0.01898	0.01758	17.54865	17.21712	0.8144065	0.6493525	0.790766	0.1414135
0.024746	0.02042	16.8993	16.06492	0.7201108	0.7807157	0.7228894	-0.05782622
0.001019	0.00015	38.34704	29.91633	0.2594942	0.1431949	0.2239575	0.08076267
0.001091	7.37E-06	51.3252	29.62047	0.8136081	0.913878	0.8112599	-0.1026181
0.009007	0.00088	30.54282	20.4541	0.9141498	0.72599	0.8132427	0.08725275
0.002981	0.02553	15.92869	25.25578	0.6506553	0.7027999	0.6132683	-0.08953161
0.008623	0.00978	20.09743	20.64324	0.8718058	0.7788078	0.6961023	-0.08270555
0.000208	1.51E-06	58.19947	36.81565	0.8445711	0.6488245	0.7505648	0.1017403
0.007945	0.00752	21.23846	20.99931	0.1919208	0.1184189	0.1928203	0.07440136
0.044265	0.02593	15.86269	13.53936	0.2600001	0.150088	0.2466014	0.09651336
0.006068	7.97E-06	50.98448	22.16966	0.6572549	0.4180632	0.4881301	0.07006698
0.028089	0.01263	18.98719	15.51464	0.9753295	0.8623191	0.7175944	-0.1447246
0.000899	3.64E-05	44.38334	30.4614	0.7032439	0.7973078	0.7309379	-0.06636994
0.038374	0.03526	14.52675	14.15959	0.8754104	0.795165	0.873348	0.07818302
0.004515	0.00093	30.29437	23.45374	0.2301488	0.1297702	0.2020483	0.07227807
0.009101	0.00268	25.72223	20.40887	0.7843227	0.598515	0.7408734	0.1423584
0.045744	0.00079	31.03639	13.39668	0.7755982	0.6338524	0.6907179	0.0568656
0.046285	7.95E-06	50.99533	13.34558	0.1487295	0.7180185	0.8352038	0.1171853
0.038889	0.03531	14.52047	14.10168	0.8863467	0.9381652	0.8876749	-0.05049026
0.008092	0.02935	15.32401	20.91949	0.9055888	0.8367738	0.7425677	-0.09420612

0.027003	0.00276	25.5909	15.68585	0.3287068	0.558893	0.6511033	0.09221033
0.033014	0.00019	37.24416	14.81296	0.8695331	0.7842682	0.7136698	-0.07059846
0.000663	0.00242	26.16604	31.78713	0.1507578	0.0873283	0.1375398	0.05021152
0.000654	0.00131	28.84025	31.84131	0.7439882	0.8279565	0.710726	-0.1172305
0.047192	0.04013	13.96517	13.26136	0.8503222	0.7898514	0.85011	0.06025867
0.012227	0.01273	18.95034	19.12684	0.2544513	0.1853726	0.2492507	0.06387807
0.029275	0.02628	15.80346	15.33499	0.594798	0.4403585	0.3042154	-0.1361431
0.002716	0.0006	32.20547	25.66047	0.7205631	0.5081754	0.6631107	0.1549353
0.000433	0.00099	30.04001	33.63773	0.5275235	0.6310467	0.5393081	-0.09173848
0.015764	0.01639	17.8529	18.02323	0.5562206	0.6472492	0.5676572	-0.07959197
0.000828	0.0004	33.96329	30.81891	0.1633964	0.0726475	0.1547268	0.08207934
0.026217	0.00891	20.50125	15.81416	0.0530926	0.1676231	0.0862768	-0.08134629
0.031223	0.01906	17.19969	15.0552	0.8897631	0.8264728	0.882962	0.05648924
0.001883	0.00347	24.59486	27.252	0.1231598	0.0403936	0.0939677	0.05357412
0.023448	0.02878	15.40961	16.29894	0.819972	0.7664469	0.823485	0.05703805
0.002966	0.00519	22.84522	25.27831	0.8762469	0.9325091	0.8582916	-0.07421754
0.001537	0.00849	20.70893	28.13306	0.9013383	0.8456251	0.7432994	-0.1023256
0.000157	0.00026	35.8341	38.0316	0.1520059	0.0873695	0.1592539	0.07188439
0.041383	0.00335	24.75246	13.83181	0.8505855	0.5696851	0.6955147	0.1258296
8.48E-05	1.96E-05	47.07336	40.71402	0.1697131	0.0381549	0.133171	0.09501611
0.031826	0.00072	31.41483	14.97219	0.8878207	0.9624199	0.8740847	-0.0883352
0.024327	0.0095	20.22503	16.13916	0.59513	0.6846904	0.6177568	-0.06693357
0.028687	0.02734	15.63244	15.42309	0.9017147	0.8398634	0.899345	0.05948167
0.027092	1.43E-06	58.44588	15.67161	0.0778896	0.275217	0.3271601	0.05194309
0.004348	0.00052	32.80084	23.61699	0.9045455	0.8125151	0.867725	0.05520988
0.028258	8.62E-05	40.64629	15.4886	0.1649632	0.4659319	0.3746438	-0.09128805
0.020238	0.01595	17.9726	16.93829	0.905413	0.838477	0.90033	0.06185298
0.04668	0.00152	28.18565	13.30871	0.364573	0.239709	0.3224118	0.08270274
0.028873	0.00085	30.71644	15.39513	0.8229092	0.6368758	0.5579035	-0.07897225
0.004036	0.00223	26.51206	23.94006	0.5080794	0.6072022	0.4953852	-0.111817
0.019984	0.00082	30.88566	16.99311	0.474513	0.6308172	0.6989107	0.0680935
0.025212	0.00793	21.0047	15.98386	0.8292361	0.7379039	0.8072147	0.06931087
0.014134	0.00361	24.42076	18.49735	0.2216008	0.1356855	0.1991634	0.06347792
0.002892	0.01438	18.42249	25.38793	0.7601551	0.8131183	0.7368631	-0.07625519
0.02416	0.01439	18.42062	16.16895	0.5247279	0.3452778	0.1937335	-0.1515443
0.007557	0.0116	19.35607	21.21651	0.2945792	0.2410174	0.2983629	0.05734558
0.000574	9.28E-05	40.32454	32.41281	0.6311839	0.7427924	0.6631643	-0.0796282
0.012274	0.00078	31.09743	19.11009	0.8139828	0.5541576	0.4367661	-0.1173914
0.02577	0.02289	16.40397	15.88888	0.7447237	0.5576072	0.7312815	0.1736742
0.045926	0.01308	18.83464	13.37941	0.0917586	0.2283323	0.3535005	0.1251682
0.042229	0.03644	14.38425	13.7439	0.6504097	0.7281446	0.6542031	-0.07394156
0.003723	0.0002	37.02154	24.29107	0.160499	0.0406192	0.1040285	0.06340932
0.017323	0.01087	19.63819	17.61382	0.7603476	0.8268366	0.7680317	-0.05880488
0.000776	0.00022	36.60831	31.10172	0.4197932	0.2710063	0.1607328	-0.1102735
0.016417	0.00436	23.60222	17.84708	0.3048107	0.2176949	0.2831814	0.06548648
0.044048	0.00754	21.22741	13.56075	0.8420773	0.6677985	0.763934	0.09613554
0.038844	8.52E-05	40.69658	14.10673	0.1951068	0.3216712	0.4245617	0.1028905
0.001761	0.00028	35.55979	27.54307	0.6950476	0.6099393	0.671516	0.06157673
0.030315	0.00075	31.26477	15.18346	0.8208736	0.5672016	0.4887232	-0.07847838
0.044835	0.01545	18.10935	13.48379	0.8141134	0.6838292	0.7779533	0.09412409
0.024726	0.00654	21.84727	16.06853	0.1875439	0.1191617	0.1697612	0.0505995
0.035736	0.00203	26.93437	14.46898	0.1104644	0.1846502	0.1235946	-0.06105562
0.015933	0.00238	26.22527	17.97694	0.3800153	0.4460621	0.3883388	-0.05772337
0.012424	2.52E-05	45.9794	19.05739	0.602413	0.4567258	0.5068076	0.05008175

0.000125	0.00203	26.93192	39.01694	0.9177203	0.8468356	0.6746352	-0.1722004
0.023779	0.00498	23.0316	16.23814	0.8468575	0.7801415	0.8314044	0.05126291
0.038844	0.02556	15.92456	14.10678	0.7935835	0.6408924	0.768776	0.1278836
0.012407	0.00316	24.99627	19.0635	0.7546105	0.6294016	0.7156339	0.08623228
0.014042	0.00143	28.43257	18.52566	0.016412	0.1490058	0.2733018	0.1242959
0.041774	0.04727	13.25374	13.79096	0.8696265	0.8018292	0.720803	-0.08102611
0.003509	0.01035	19.8497	24.54782	0.6302938	0.7239725	0.6055425	-0.1184299
0.024277	0.00197	27.05165	16.14812	0.8225552	0.6583077	0.7399763	0.08166862
0.042141	0.01372	18.62535	13.75292	0.784679	0.7159984	0.7662438	0.05024544
0.007415	0.03707	14.3103	21.29915	0.705188	0.6191357	0.5161788	-0.102957
8.22E-05	0.00033	34.76564	40.85088	0.878161	0.9594318	0.8728572	-0.08657461
0.035731	0.0169	17.72149	14.46958	0.8756002	0.7896418	0.7140865	-0.07555524
0.002206	0.00401	23.97023	26.56491	0.7913791	0.8671032	0.7837007	-0.08340245
0.003463	0.00741	21.29928	24.60601	0.7333966	0.8675092	0.7301792	-0.1373301
0.019239	0.00397	24.01179	17.15816	0.3493573	0.4613215	0.3810197	-0.08030181
0.040614	0.01994	17.00193	13.91329	0.0485136	0.2632633	0.433738	0.1704747
0.014988	0.00091	30.43291	18.24252	0.5363771	0.6193935	0.5653738	-0.0540197
0.004591	0.00014	38.60749	23.38136	0.2541019	0.1151117	0.2223978	0.1072861
0.001581	0.04325	13.64042	28.0112	0.7440058	0.6915996	0.7838526	0.09225297
0.001708	0.00118	29.27147	27.67581	0.1738101	0.0739514	0.1488707	0.07491923
0.000973	0.0011	29.59413	30.11707	0.1946432	0.0801523	0.1710607	0.09090837
0.004205	0.00038	34.19358	23.7623	0.7328231	0.8374894	0.7451702	-0.09231919
0.000166	1.11E-05	49.52731	37.80241	0.100604	0.0290962	0.093836	0.06473973
0.02272	0.04343	13.62229	16.43586	0.6033664	0.6784931	0.5784792	-0.1000139
0.006728	2.05E-06	56.88716	21.72121	0.2101869	0.1303428	0.2285949	0.09825215
0.011549	0.03633	14.39749	19.37443	0.5790904	0.695217	0.5395279	-0.1556891
0.025528	0.00733	21.34781	15.92988	0.7513578	0.519792	0.6769755	0.1571836
0.030669	0.02482	16.05229	15.13297	0.7257314	0.7975256	0.732812	-0.06471362
0.030653	0.00549	22.60645	15.13527	0.0399437	0.3612752	0.5513383	0.1900631
0.013408	2.57E-06	55.90598	18.72651	0.3299554	0.6228298	0.6936503	0.07082053
0.042314	0.04075	13.89889	13.7352	0.6423266	0.7357116	0.6405465	-0.09516509
0.026039	0.01887	17.24172	15.84376	0.8146363	0.5730796	0.7813708	0.2082912
0.027882	1.32E-08	78.78725	15.5468	0.8774918	0.6398391	0.5575634	-0.08227566
0.004576	0.00725	21.39617	23.39513	0.7686791	0.8839895	0.7956686	-0.08832085
0.00828	0.02654	15.76169	20.81959	0.9008362	0.7896643	0.6318147	-0.1578496
0.033568	0.02442	16.12234	14.74079	0.8706981	0.7873799	0.8633371	0.07595723
0.000986	0.0382	14.17972	30.06042	0.8545535	0.9143281	0.8313281	-0.08299999
0.001435	0.03017	15.20392	28.43038	0.7632217	0.8300065	0.7054908	-0.1245158
0.011511	0.0046	23.37173	19.38885	0.8395417	0.7546933	0.8217165	0.06702331
0.011575	0.01047	19.79948	19.36466	0.3832007	0.2993334	0.3769532	0.07761981
0.01131	0.01844	17.34238	19.4652	0.215267	0.1363956	0.2168022	0.0804066
0.00073	0.00283	25.47812	31.36937	0.8479298	0.9178173	0.8261588	-0.09165847
0.028393	0.00198	27.03572	15.46784	0.3810932	0.2444548	0.1694414	-0.07501341
0.019646	0.00317	24.99308	17.06735	0.6358386	0.761682	0.6861594	-0.07552255
0.024613	2.69E-05	45.70315	16.08836	0.1212	0.3390146	0.2380401	-0.1009744
0.003396	0.00416	23.80764	24.69055	0.5576053	0.6156403	0.5565829	-0.0590574
0.046229	0.00146	28.36161	13.35085	0.1082489	0.5220638	0.6485499	0.1264861
0.035782	0.00099	30.04892	14.46334	0.5317889	0.7344666	0.6174031	-0.1170634
0.004535	0.00164	27.84681	23.43395	0.1223735	0.0609112	0.1156764	0.05476522
2.03E-05	4.87E-06	53.12489	46.92587	0.1122893	0.0434294	0.0960774	0.05264808
0.018965	0.01561	18.06627	17.22046	0.280739	0.3539118	0.4239719	0.07006011
0.005319	0.005	23.01383	22.74185	0.7182376	0.7905153	0.7156482	-0.07486707
0.018026	0.02517	15.99049	17.44112	0.8712387	0.6893987	0.5128171	-0.1765816
0.013496	0.02808	15.51563	18.69787	0.6861337	0.7479368	0.6603614	-0.08757543



9.52E-05	8.38E-07	60.76744	40.21414	0.2370236	0.12327	0.219341	0.09607102
0.021003	0.01664	17.78781	16.77725	0.3050281	0.4304437	0.5232239	0.0927802
0.005684	0.0101	19.95487	22.45336	0.749598	0.8245346	0.7465301	-0.07800457
0.024171	0.00161	27.93371	16.16712	0.8600332	0.6131351	0.5041122	-0.1090229
0.000229	0.00013	38.96506	36.39786	0.2447044	0.0739027	0.2142243	0.1403216
0.009002	0.00311	25.07938	20.45681	0.198702	0.1250136	0.1839786	0.05896504
0.008478	0.00808	20.92512	20.71701	0.774114	0.6364257	0.4918686	-0.1445571
0.009825	0.00012	39.3838	20.07666	0.8055345	0.6581501	0.590746	-0.06740399
0.045336	0.0308	15.11519	13.43554	0.6223358	0.7502781	0.6419455	-0.1083325
0.004677	0.01102	19.57678	23.30029	0.7834644	0.7219136	0.7913157	0.06940203
0.000988	0.00213	26.71205	30.05139	0.9080195	0.845695	0.9149961	0.06930111
0.041094	0.00035	34.54738	13.86218	0.4930192	0.2578439	0.3440672	0.08622325
0.049922	0.03924	14.06316	13.01704	0.9226596	0.8517269	0.9145865	0.06285957
0.033068	8.74E-07	60.58251	14.80596	0.1734266	0.6887944	0.7643886	0.07559413
0.00084	6.55E-05	41.8357	30.759	0.8671833	0.7495178	0.828368	0.07885019
0.029362	0.00356	24.49006	15.32213	0.539318	0.3278926	0.4541328	0.1262402
0.044113	0.01227	19.11253	13.55429	0.8334212	0.7560868	0.8191411	0.06305422
0.000123	7.34E-06	51.34153	39.09819	0.7073243	0.5588611	0.4271862	-0.1316749
0.000168	3.20E-06	54.94663	37.75229	0.7971706	0.9256709	0.8134644	-0.1122065
0.005223	0.00547	22.62043	22.82107	0.7773897	0.866284	0.7709019	-0.09538217
0.016709	0.02164	16.64674	17.77057	0.2319869	0.1668164	0.2392723	0.07245591
0.010222	0.00886	20.52486	19.90448	0.2765586	0.2110419	0.2636436	0.0526017
0.00193	0.00332	24.79116	27.14367	0.1152721	0.0611542	0.1159033	0.05474918
0.000104	1.46E-05	48.35716	39.82181	0.1928486	0.1254806	0.1865907	0.06111007
0.042471	0.04529	13.43991	13.71907	0.8326626	0.7786752	0.6472437	-0.1314315
4.62E-06	2.54E-05	45.94437	53.35067	0.7709947	0.8925828	0.7864549	-0.1061279
0.02926	0.0335	14.7493	15.33733	0.9039211	0.7586155	0.9107074	0.1520919
0.001663	0.00042	33.72798	27.7904	0.7618294	0.8450418	0.7576227	-0.08741905
0.000209	0.0014	28.54115	36.80827	0.7840592	0.8993996	0.7882862	-0.1111134
0.029204	0.00302	25.20177	15.34552	0.8453107	0.7622038	0.6975914	-0.06461241
0.00808	0.01859	17.30745	20.92589	0.8289369	0.902994	0.8075094	-0.09548458
0.020352	0.01255	19.01432	16.91388	0.8892125	0.8299354	0.8823222	0.05238684
0.035288	0.00405	23.92104	14.52371	0.8698127	0.7375309	0.8077193	0.07018837
3.67E-05	0.00072	31.43428	44.35251	0.4879037	0.5399871	0.4602176	-0.07976951
0.007088	0.0176	17.54552	21.49461	0.7349517	0.6653889	0.7585333	0.09314444
0.021968	0.0257	15.90114	16.58216	0.9003608	0.7709724	0.6423464	-0.128626
0.003863	0.00148	28.28435	24.13021	0.7587589	0.5861814	0.7143605	0.1281791
0.049772	0.00308	25.11548	13.03014	0.7546778	0.6378292	0.6946062	0.05677702
0.009855	0.01161	19.35082	20.0635	0.8403942	0.8939479	0.840391	-0.05355686
0.028861	0.03395	14.69172	15.39684	0.8919424	0.8164299	0.89442	0.07799012
0.041266	0.00024	36.17155	13.84409	0.6668923	0.4415275	0.3686005	-0.07292704
0.046055	0.0476	13.22401	13.36723	0.6395977	0.3895944	0.6497345	0.2601401
0.021081	0.03621	14.41188	16.761	0.8069493	0.8833029	0.7985305	-0.08477243
0.0282	0.04154	13.81485	15.49757	0.8134177	0.8707565	0.8033738	-0.06738273
0.027908	0.01855	17.31595	15.54279	0.3527471	0.1713288	0.3221334	0.1508046
0.001706	0.00131	28.83656	27.67977	0.7699236	0.8334027	0.7604183	-0.0729844
2.73E-06	2.26E-06	56.45699	55.64284	0.3494507	0.7178809	0.5305776	-0.1873033
0.049435	0.002	26.99835	13.05965	0.8803192	0.7518029	0.8111757	0.05937278
0.045976	0.02353	16.2838	13.37465	0.7253466	0.8185959	0.7385074	-0.08008845
0.026294	0.02361	16.2692	15.80143	0.857097	0.9117524	0.8612096	-0.05054274
0.041964	0.00497	23.03725	13.77119	0.9174225	0.4139945	0.1994287	-0.2145659
0.015408	0.00011	39.50685	18.12262	0.7521673	0.5132647	0.4127617	-0.100503
0.016497	3.42E-06	54.65882	17.82589	0.484181	0.7822039	0.8397382	0.05753434
0.045699	0.01217	19.14553	13.40092	0.8553805	0.7511212	0.8214025	0.07028123

0.011138	0.00446	23.50814	19.53206	0.8437506	0.928055	0.8447731	-0.08328184
0.011172	0.00092	30.35329	19.51886	0.7844566	0.8383018	0.6838756	-0.1544262
0.001287	7.42E-05	41.2941	28.90569	0.2738459	0.1283521	0.2177892	0.08943712
0.011198	0.00034	34.6452	19.50861	0.6518543	0.7333105	0.6425187	-0.09079182
0.000156	0.00158	28.00808	38.08185	0.8403598	0.9397225	0.8296287	-0.1100938
0.046191	0.0351	14.54749	13.35447	0.8646806	0.9260573	0.8704504	-0.05560682
0.004114	0.00172	27.64671	23.85772	0.8318502	0.6951208	0.8074255	0.1123047
0.017296	0.00053	32.72552	17.62045	0.0473557	0.2158057	0.3287224	0.1129166
0.013929	0.00268	25.71143	18.56091	0.8486852	0.7784194	0.8287667	0.05034732
0.004027	0.00107	29.71518	23.95023	0.8418698	0.9204032	0.850875	-0.06952825
0.047322	0.00096	30.19626	13.24938	0.8688286	0.6994035	0.6161497	-0.0832538
0.025531	0.00491	23.08583	15.92929	0.0426194	0.1720542	0.2714629	0.09940869
0.034792	0.00019	37.27197	14.58522	0.794551	0.4790238	0.5725167	0.09349283
0.023908	0.01085	19.64627	16.21451	0.059437	0.1489505	0.0834497	-0.06550086
0.03886	0.04603	13.36974	14.10499	0.8033953	0.7011007	0.8134269	0.1123262
0.012589	0.0008	30.98328	19.00008	0.0876372	0.3156819	0.4180855	0.1024037
0.010964	0.00377	24.23323	19.60031	0.1891246	0.0869381	0.1912218	0.1042838
0.030315	0.03989	13.99086	15.18346	0.8731388	0.9251618	0.8681739	-0.05698786
0.000536	0.00659	21.81336	32.70896	0.7695699	0.8223837	0.7313148	-0.09106893
0.012965	0.03151	15.01618	18.87233	0.7640995	0.8342298	0.7466454	-0.08758445
0.000112	0.00576	22.39497	39.52555	0.891338	0.9457414	0.8210949	-0.1246465
0.021283	0.00027	35.74822	16.71969	0.7541659	0.5799502	0.6595219	0.07957179
0.001501	0.00143	28.44336	28.23513	0.008644	0.3231532	0.5584123	0.2352591
0.026276	0.00754	21.2244	15.80445	0.8103726	0.6762876	0.764038	0.0877504
0.013249	0.00044	33.58764	18.77804	0.810564	0.6810652	0.7351634	0.05409824
0.029878	0.02183	16.61039	15.2465	0.2116885	0.1512202	0.2064413	0.05522102
0.021172	0.00407	23.89919	16.74229	0.0833974	0.4735751	0.669338	0.195763
0.043725	0.0163	17.87888	13.59266	0.8148693	0.6309579	0.7523448	0.1213869
0.005199	0.02675	15.72757	22.84043	0.7633597	0.8443952	0.727978	-0.1164172
0.004516	0.00236	26.26944	23.45236	0.2028599	0.1210951	0.1842542	0.06315906
0.011107	0.00579	22.37459	19.55866	0.7704748	0.8778853	0.7731598	-0.1047255
0.011796	1.32E-05	48.79646	19.28259	0.8285778	0.7162045	0.7663761	0.05017167
0.021589	0.03681	14.34089	16.65775	0.8481652	0.7139353	0.5688232	-0.145112
0.047551	0.00019	37.17418	13.22837	0.3605979	0.1989861	0.1475968	-0.05138936
0.003967	0.00253	25.96651	24.01498	0.7436093	0.8759516	0.7485289	-0.1274227
0.021405	0.00049	33.13277	16.69491	0.792679	0.6626145	0.7242299	0.06161544
0.038241	0.03373	14.71969	14.17471	0.2193627	0.1564807	0.2592063	0.1027255
0.011969	0.00169	27.72656	19.21931	0.6668897	0.4737394	0.5379413	0.06420188
0.009837	0.00247	26.07571	20.0712	0.7400124	0.6419793	0.7220639	0.08008464
0.010816	0.00885	20.53063	19.65936	0.7974641	0.8563956	0.7986389	-0.05775663
0.001078	0.00087	30.59623	29.67206	0.0935373	0.2001682	0.0917215	-0.1084467
0.006947	0.03077	15.11853	21.58205	0.0675121	0.1743328	0.3312164	0.1568836
0.001076	0.00513	22.8983	29.68195	0.6587961	0.8427365	0.6371136	-0.2056229
0.005168	0.00459	23.38264	22.8666	0.7899221	0.9195305	0.7971601	-0.1223703
5.37E-05	1.34E-05	48.7327	42.6982	0.7481945	0.8359842	0.7554277	-0.08055647
0.006566	0.00272	25.65944	21.82683	0.7902637	0.9084173	0.8166976	-0.09171977
0.000113	1.26E-05	49.00198	39.46658	0.1570324	0.0618883	0.131265	0.06937666
0.028457	0.00012	39.28016	15.45813	0.6106846	0.9165266	0.8382354	-0.07829112
0.001542	0.00168	27.73759	28.12048	0.1900122	0.1287401	0.1925533	0.06381317
0.000205	0.00029	35.40344	36.87597	0.5289475	0.5948659	0.5401443	-0.05472153
0.000973	0.00014	38.40641	30.11693	0.5184256	0.6289413	0.5326617	-0.09627959
0.018065	0.01023	19.90183	17.43158	0.7251593	0.7885213	0.7329403	-0.05558104
0.046758	7.19E-06	51.43009	13.30144	0.1148914	0.347238	0.4569741	0.1097361
0.006121	0.00605	22.17984	22.13181	0.3906482	0.283884	0.3742245	0.09034051

0.004204	0.01552	18.09015	23.76323	0.7273113	0.8241336	0.7100481	-0.1140854
0.025876	0.00472	23.26156	15.87095	0.084684	0.5440653	0.7910677	0.2470024
0.042256	0.00063	32.00917	13.74116	0.6264082	0.2950478	0.3977284	0.1026806
0.023083	0.04194	13.77378	16.36713	0.4468213	0.6160985	0.4076812	-0.2084173
0.004561	0.00209	26.79807	23.40928	0.7908925	0.8937802	0.8251766	-0.06860363
0.026755	0.01382	18.59541	15.72595	0.902497	0.8159609	0.8830252	0.06706433
0.001907	0.0015	28.22644	27.19596	0.6932214	0.8368294	0.7166063	-0.1202231
0.044686	0.00065	31.84097	13.49827	0.8172508	0.6921661	0.7421951	0.05002898
0.016933	0.0005	32.97328	17.71271	0.208123	0.1385825	0.1966435	0.05806097
0.01169	0.0115	19.39457	19.32181	0.4093011	0.5101531	0.4033799	-0.1067732
0.001742	5.33E-05	42.73246	27.59069	0.2821154	0.1162858	0.2340274	0.1177417
0.020487	0.03042	15.16861	16.88522	0.8406864	0.784375	0.8533245	0.06894949
0.000798	9.63E-05	40.16286	30.97993	0.1280446	0.0288433	0.1145642	0.08572092
0.00171	2.33E-05	46.32706	27.66965	0.7606889	0.4172322	0.5598897	0.1426575
0.010422	0.00685	21.645	19.82052	0.908806	0.8483368	0.8990324	0.05069562
0.015712	0.00711	21.48108	18.03772	0.3584383	0.1834713	0.0862579	-0.09721337
0.049399	0.01206	19.18645	13.06279	0.8628567	0.7080667	0.7974144	0.08934773
0.029975	0.04901	13.09683	15.23243	0.831852	0.894673	0.8246011	-0.07007196
0.012533	0.0129	18.89286	19.01934	0.6381772	0.7595471	0.6441556	-0.1153914
0.020216	0.00061	32.15208	16.94296	0.8657959	0.7495216	0.8117209	0.06219933
0.023187	0.01533	18.1444	16.34749	0.3220915	0.1305308	0.2975416	0.1670109
0.007877	0.03979	14.00257	21.03644	0.7170546	0.7958547	0.6748663	-0.1209884
0.045103	0.00073	31.36939	13.45798	0.4590747	0.627592	0.5694669	-0.05812507
0.000729	0.0007	31.53152	31.37166	0.6688772	0.7350222	0.6765031	-0.05851914
0.02784	0.02471	16.07058	15.55325	0.5709783	0.6235536	0.5728666	-0.05068698
0.049946	0.04017	13.9614	13.01498	0.8623871	0.7764738	0.8576862	0.08121239
0.007112	0.00023	36.43633	21.47999	0.1457542	0.5055137	0.3203698	-0.1851439
0.011069	0.00043	33.66157	19.55885	0.8675125	0.7655591	0.8185065	0.05294739
0.02589	0.04255	13.71068	15.86868	0.5644557	0.4914702	0.3997273	-0.09174287
0.024293	0.00428	23.68691	16.1451	0.8641164	0.7253016	0.6300268	-0.09527484
0.007099	0.00881	20.54856	21.48784	0.1347819	0.0790588	0.1365714	0.05751264
0.019764	0.01234	19.08844	17.04116	0.1682882	0.0975148	0.1535895	0.05607465
0.037472	0.00263	25.80638	14.26294	0.678158	0.5580251	0.4871751	-0.07084993
0.047934	0.00838	20.76645	13.19361	0.1862891	0.0977994	0.1534673	0.05566793
0.048044	0.01783	17.48859	13.18362	0.8220496	0.7037729	0.7911817	0.08740884
0.004121	0.00077	31.13329	23.85046	0.1833366	0.104608	0.1635915	0.0589835
0.000877	0.00073	31.37193	30.56764	0.8690631	0.6625955	0.8114699	0.1488744
0.001076	0.00217	26.64098	29.68014	0.3860236	0.4898815	0.3732435	-0.116638
0.028299	0.00015	38.28748	15.48226	0.3927253	0.5261229	0.5980336	0.07191071
0.012573	0.00481	23.17495	19.00567	0.8436387	0.7571993	0.8244089	0.06720962
0.034473	0.01227	19.11234	14.62519	0.8325275	0.7325498	0.8067042	0.07415435
0.042108	0.00136	28.66944	13.75636	0.6991978	0.4928547	0.568225	0.07537025
0.002074	0.00071	31.47985	26.83168	0.8656758	0.7793919	0.8499762	0.07058427
0.000123	0.00024	36.16702	39.11206	0.6353261	0.6956057	0.6316062	-0.06399945
0.008387	0.00181	27.42047	20.76377	0.7281708	0.7816297	0.702113	-0.07951672
0.000505	0.00014	38.67693	32.97101	0.1443749	0.0754739	0.1303107	0.05483682
0.006251	0.00023	36.47599	22.04024	0.8737931	0.7491255	0.8140791	0.06495358
0.030104	8.65E-05	40.62867	15.21377	0.2521138	0.5104622	0.592254	0.08179177
0.024513	0.00273	25.6352	16.10598	0.8932242	0.8061875	0.8751017	0.06891418
0.022491	0.00201	26.96109	16.47988	0.7806156	0.5083284	0.3460907	-0.1622377
0.038941	0.03316	14.79343	14.09595	0.5520344	0.6221389	0.5533769	-0.06876195
0.034818	1.88E-05	47.25704	14.58202	0.8168614	0.569689	0.5131163	-0.05657266
0.002742	0.00711	21.47942	25.61972	0.8873565	0.8261305	0.8977587	0.07162815
0.017348	1.75E-05	47.56205	17.60762	0.668842	0.3829687	0.4701877	0.08721908

0.025459	0.02425	16.15253	15.94157	0.0549439	0.1999301	0.3335221	0.1335919
0.008694	0.0003	35.29744	20.60768	0.7391722	0.5868237	0.4652328	-0.1215909
0.049634	0.01548	18.10146	13.04217	0.1381528	0.1901256	0.276696	0.08657049
0.019457	0.01437	18.42562	17.10934	0.0692061	0.131477	0.2262406	0.09476359
3.57E-06	5.48E-06	52.60951	54.4748	0.8900734	0.9638613	0.8991552	-0.06470619
0.003364	0.00536	22.70877	24.73158	0.5922481	0.6492923	0.5867363	-0.06255611
0.039393	0.00234	26.31135	14.04582	0.4899158	0.6558519	0.7724334	0.1165815
0.046899	5.63E-07	62.49548	13.28837	0.7021664	0.4151306	0.4712901	0.05615949
0.024756	0.01423	18.46916	16.06325	0.901487	0.8136007	0.8878642	0.07426354
0.00362	0.00211	26.75886	24.41267	0.8345389	0.7327106	0.6320244	-0.1006862
0.025965	0.00894	20.48568	15.85618	0.7210059	0.6065848	0.4944252	-0.1121596
0.002401	0.00344	24.62917	26.19548	0.7617992	0.8521664	0.7146388	-0.1375276
0.012354	0.02078	16.82439	19.08208	0.7865661	0.8811213	0.7821601	-0.09896121
0.029877	0.02769	15.57618	15.24657	0.168114	0.1069555	0.1642313	0.05727579
0.002606	0.00014	38.46995	25.84072	0.7338258	0.5168737	0.6389197	0.122046
0.044288	0.02022	16.94259	13.53709	0.8404199	0.7463271	0.6436209	-0.1027062
0.010484	0.01517	18.19039	19.79461	0.308207	0.1592871	0.3102709	0.1509838
0.013995	0.03252	14.8786	18.54033	0.2535101	0.3205746	0.413597	0.09302241
0.044094	0.00401	23.97026	13.55618	0.0910904	0.2018052	0.2762718	0.07446656
0.01184	0.01445	18.40257	19.26656	0.6387115	0.7140939	0.6311583	-0.08293565
0.034863	0.00241	26.17699	14.57638	0.1815145	0.3366901	0.4289851	0.09229498
0.038208	0.02164	16.64657	14.17841	0.5458218	0.6355394	0.562687	-0.07285243
0.000936	0.00066	31.81848	30.28679	0.5795345	0.6815083	0.586915	-0.09459335
0.024959	0.00965	20.15528	16.02778	0.087295	0.2180031	0.3720108	0.1540077
0.00316	0.00162	27.90365	25.00274	0.871691	0.716525	0.5834131	-0.1331119
0.025995	0.00614	22.1185	15.85106	0.8864387	0.7698017	0.6956594	-0.07414225
0.039003	0.00066	31.7802	14.08897	0.7848975	0.5585211	0.637551	0.07902993
0.021819	0.03095	15.09296	16.61164	0.8986996	0.8157226	0.9094915	0.09376894
0.001155	0.00121	29.15966	29.37399	0.1370711	0.0705264	0.1395887	0.06906226
0.035305	0.02463	16.085	14.52163	0.6569836	0.5082501	0.5880834	0.07983334
0.032957	0.02325	16.33503	14.82046	0.3095105	0.1375309	0.2909095	0.1533786
0.014066	0.00526	22.79062	18.5182	0.8838541	0.7757326	0.8466902	0.0709576
0.006735	0.00425	23.71403	21.7168	0.2167873	0.1293182	0.205559	0.07624075
0.002395	0.00118	29.29196	26.20781	0.766838	0.9000665	0.7905353	-0.1095313
0.036199	0.00954	20.20397	14.41308	0.0627645	0.2083419	0.3042669	0.09592503
0.025704	0.00453	23.4419	15.90004	0.9078141	0.8221959	0.7615881	-0.06060787
0.003286	8.13E-05	40.90047	24.83349	0.7955734	0.626965	0.722016	0.09505096
0.001656	0.00198	27.03667	27.80832	0.1149569	0.0608813	0.1138262	0.05294494
0.022283	0.00297	25.27756	16.52024	0.7092894	0.897702	0.8318875	-0.06581452
0.013623	0.001	29.99215	18.65718	0.8752543	0.6268616	0.4961677	-0.1306939
0.015033	0.0034	24.68652	18.22949	0.2440875	0.1476379	0.2122819	0.06464406
0.000434	4.74E-05	43.24112	33.63008	0.1314446	0.0512269	0.1131586	0.06193164
3.05E-05	4.05E-06	53.92419	45.15804	0.1200799	0.0431454	0.1084754	0.06533008
0.003764	0.00227	26.43787	24.24334	0.6840281	0.5543504	0.6703232	0.1159728
0.008464	0.03356	14.7422	20.72415	0.5906554	0.657506	0.5626904	-0.09481563
0.007433	0.00329	24.83349	21.28821	0.0663355	0.2000314	0.31353	0.1134986
0.016119	6.89E-06	51.62044	17.92675	0.405838	0.8757406	0.7503004	-0.1254402
0.003947	0.00696	21.57348	24.03726	0.6663095	0.7627645	0.6680834	-0.09468108
0.006469	0.0003	35.26588	21.89171	0.7958853	0.7361889	0.6503656	-0.08582329
0.044408	0.05011	13.00073	13.52543	0.8084363	0.7280854	0.8114412	0.08335574
0.001781	0.00024	36.18901	27.49425	0.7527794	0.6047867	0.6972532	0.09246647
0.014631	0.00389	24.10096	18.34731	0.8328319	0.7299064	0.8045555	0.07464907
0.025488	0.00827	20.82412	15.93672	0.839027	0.6490986	0.520204	-0.1288946
0.009508	0.00351	24.54478	20.21902	0.726087	0.8107452	0.7346305	-0.07611475

0.007121	0.01167	19.32901	21.47466	0.7491971	0.8055584	0.7353289	-0.07022955
0.008886	0.00215	26.67811	20.51278	0.819155	0.7073173	0.5913144	-0.1160029
0.007319	0.00147	28.33883	21.3557	0.179178	0.3363534	0.4817811	0.1454278
0.002846	3.48E-05	44.58908	25.45785	0.7326003	0.5992677	0.5261483	-0.07311935
0.002403	0.00165	27.81356	26.19166	0.8741382	0.7945579	0.8578907	0.06333272
0.024732	0.01386	18.58151	16.06738	0.8339971	0.7050012	0.8061683	0.1011672
0.001101	0.00011	39.59607	29.5812	0.288751	0.1703126	0.2736426	0.10333
0.002561	0.00096	30.15608	25.91616	0.6482484	0.7725289	0.6634461	-0.1090828
0.00042	3.81E-05	44.1947	33.76263	0.7160443	0.8183134	0.7558101	-0.0625033
0.026333	0.00064	31.96206	15.79504	0.859784	0.7468234	0.7989247	0.05210128
0.011851	0.00886	20.52502	19.26246	0.8335589	0.6843759	0.8216556	0.1372796
0.004633	0.00751	21.24251	23.34102	0.1675927	0.0883116	0.1754053	0.08709369
0.003933	0.04332	13.63321	24.05252	0.6212705	0.5599611	0.4561105	-0.1038506
0.008147	0.00706	21.51282	20.89016	0.6549696	0.7768018	0.6720607	-0.1047411
0.009905	0.00435	23.61919	20.04124	0.901986	0.7961725	0.879987	0.0838145
5.13E-06	1.68E-07	67.75412	52.90057	0.8039202	0.919081	0.8190788	-0.1000022
0.033333	0.00017	37.76829	14.7713	0.4355359	0.5888195	0.534964	-0.05385545
0.003873	0.00888	20.51651	24.11995	0.8143674	0.7358748	0.6424146	-0.0934603
0.022398	0.00587	22.31384	16.49798	0.8116422	0.7314457	0.7959059	0.06446017
0.011689	0.00146	28.37042	19.32227	0.8039012	0.5919293	0.7133049	0.1213756
0.018364	0.0056	22.51511	17.36035	0.8884025	0.7732864	0.8504454	0.07715899
0.000779	6.32E-05	41.98958	31.08587	0.1649715	0.0889803	0.153303	0.06432274
0.023254	0.00099	30.0287	16.33507	0.8511088	0.7337877	0.7880183	0.05423067
0.032975	0.00913	20.39537	14.81819	0.8512927	0.7367193	0.8138777	0.07715846
0.018746	0.02319	16.3479	17.27098	0.4916749	0.5793374	0.6682816	0.0889442
0.000678	0.03605	14.43058	31.69025	0.9238079	0.8674859	0.6713245	-0.1961614
0.001285	2.43E-05	46.14825	28.91092	0.6591547	0.7612327	0.6992758	-0.06195697
0.022232	0.0289	15.39118	16.53026	0.7820045	0.6991406	0.7921549	0.09301431
0.003562	0.01232	19.09515	24.48363	0.8059294	0.9048359	0.7841899	-0.1206461
0.013199	0.01196	19.22367	18.79475	0.7509337	0.6382671	0.7448871	0.10662
0.011871	0.0206	16.86113	19.25513	0.4705196	0.5557572	0.4492005	-0.1065567
0.046458	0.0075	21.24684	13.32943	0.8967161	0.7549134	0.8418301	0.08691664
0.000148	1.78E-05	47.49	38.28893	0.566725	0.7230409	0.6223069	-0.100734
0.045685	0.00222	26.52999	13.40231	0.8180014	0.6546432	0.7279807	0.07333747
0.010988	0.00135	28.70433	19.59101	0.8779674	0.6946927	0.8094758	0.1147831
0.000661	0.00105	29.80759	31.80044	0.4515813	0.534956	0.4470372	-0.08791875
0.020785	0.00093	30.33067	16.82256	0.8413742	0.7091897	0.7763644	0.06717475
0.02196	0.01089	19.62806	16.58374	0.9296104	0.8163914	0.718848	-0.09754338
0.003423	0.00195	27.09814	24.65558	0.0678618	0.1786862	0.2663266	0.08764042
0.000189	0.00261	25.83994	37.23273	0.5175507	0.5914765	0.489998	-0.1014785
0.03727	0.02795	15.53566	14.28637	0.7110006	0.7906631	0.8472926	0.05662943
0.03197	0.01222	19.1304	14.95251	0.7220539	0.8403805	0.7734671	-0.06691342
0.000242	0.00084	30.73297	36.17041	0.694262	0.8593553	0.7046185	-0.1547369
0.014728	0.0123	19.10184	18.31863	0.5106207	0.584465	0.5131756	-0.07128944
0.047891	0.00237	26.24837	13.19747	0.8401176	0.6734561	0.749967	0.07651082
0.003215	9.90E-07	60.04512	24.92863	0.5789365	0.7812552	0.8512679	0.07001272
0.005582	0.00331	24.79903	22.53177	0.100368	0.0438962	0.0973997	0.05350349
0.049133	2.95E-05	45.30678	13.08629	0.7236386	0.588104	0.5372455	-0.05085854
0.011118	0.00777	21.09791	19.53978	0.7230731	0.8083156	0.7310215	-0.07729407
0.017788	0.04344	13.6209	17.49879	0.6754521	0.7491344	0.6555136	-0.09362075
0.000789	0.0036	24.43328	31.02844	0.7280682	0.8344774	0.7133042	-0.1211732
0.003342	0.02667	15.73955	24.76009	0.9640034	0.8722825	0.719111	-0.1531716
0.002487	0.00115	29.40493	26.04392	0.8771811	0.9498123	0.891246	-0.05856628
0.048013	0.02952	15.2982	13.18644	0.1750739	0.1085502	0.1695726	0.06102239

0.040099	0.04391	13.57464	13.96865	0.4292177	0.5799143	0.4293312	-0.1505831
0.027098	0.01415	18.49279	15.6706	0.855196	0.7184318	0.8340383	0.1156064
4.88E-05	7.74E-06	51.11475	43.11374	0.1629768	0.0845683	0.1457756	0.06120737
0.034636	1.75E-05	47.56773	14.60468	0.6815223	0.3767141	0.4535924	0.0768783
0.013675	0.0084	20.75856	18.64071	0.1724105	0.1057157	0.1660509	0.0603352
0.021383	0.00321	24.92987	16.69926	0.8477892	0.7654276	0.8230292	0.05760157
0.020996	0.00192	27.16503	16.77871	0.8202886	0.7013836	0.7719616	0.07057805
0.008657	0.01711	17.66838	20.6261	0.6294212	0.7025768	0.600567	-0.1020098
0.031866	0.00025	36.10354	14.96677	0.8175563	0.6847444	0.7439721	0.05922772
0.037779	0.00705	21.51772	14.2275	0.7999641	0.7008157	0.7624059	0.06159015
0.01361	0.00501	23.00117	18.66145	0.29269	0.423209	0.4931084	0.06989934
0.000649	0.00074	31.3116	31.87902	0.714075	0.8123675	0.6984942	-0.1138733
0.018254	0.0374	14.2717	17.38643	0.266353	0.3607612	0.4865157	0.1257545
0.03099	0.00063	32.0127	15.08775	0.7862452	0.6807692	0.6018618	-0.07890739
0.004241	0.00094	30.25337	23.72521	0.8575059	0.7207674	0.8180599	0.09729243
0.00236	0.00033	34.78601	26.2707	0.7727222	0.662708	0.5602129	-0.1024951
0.003996	0.00064	31.90794	23.98348	0.4822265	0.6634211	0.79482	0.131399
0.000521	0.00136	28.66721	32.83572	0.7441906	0.8057194	0.6782787	-0.1274406
0.002395	0.00111	29.54244	26.20647	0.2481382	0.4480307	0.6113886	0.1633579
0.002035	0.00035	34.52922	26.91375	0.2085195	0.1235607	0.1764373	0.0528767
0.005713	0.02036	16.91266	22.43164	0.8700326	0.9310945	0.8750247	-0.05606986
0.003662	0.00275	25.60064	24.36327	0.8047161	0.9348599	0.8334969	-0.101363
0.002101	0.04787	13.19925	26.77557	0.5974784	0.6629581	0.5121617	-0.1507964
0.027078	2.40E-05	46.20437	15.67389	0.5340469	0.8138476	0.6891357	-0.124712
0.010328	0.03687	14.33285	19.85995	0.8079207	0.755915	0.8257146	0.06979956
0.032593	9.77E-05	40.09921	14.86877	0.7124242	0.5577862	0.6350792	0.07729308
0.001402	0.00347	24.59837	28.53352	0.5289476	0.6591783	0.5280288	-0.1311495
0.035715	0.00368	24.34501	14.47146	0.8255878	0.707407	0.7666817	0.05927468
0.048915	0.00547	22.61832	13.10562	0.8753691	0.649937	0.5429748	-0.1069622
0.015237	0.01365	18.64787	18.17094	0.7515246	0.8495072	0.7579793	-0.09152783
0.014333	0.03317	14.79269	18.43654	0.3501863	0.4032615	0.337843	-0.06541847
0.016034	0.00524	22.80739	17.94967	0.8964177	0.7775856	0.8599545	0.08236896
0.008259	0.00738	21.31738	20.8309	0.6376143	0.7230334	0.6391934	-0.08383997
0.035778	0.00374	24.27323	14.46387	0.912431	0.8360013	0.7642177	-0.0717837
0.049818	0.00237	26.24951	13.02613	0.7831268	0.5858456	0.493258	-0.09258756
0.005353	0.01309	18.83057	22.71441	0.8662512	0.8043667	0.8786691	0.0743024
0.030032	0.0016	27.96493	15.22411	0.2799247	0.4362436	0.5159575	0.07971385
0.035619	0.02897	15.38028	14.48315	0.1998326	0.1351711	0.1985094	0.06333822
0.001287	0.00194	27.13271	28.90414	0.6774475	0.8737061	0.6899183	-0.1837877
0.00119	0.00046	33.33191	29.24356	0.8397198	0.9193524	0.8474272	-0.07192508
0.00479	0.01792	17.46678	23.19667	0.8216884	0.7062652	0.5642375	-0.1420277
0.000533	0.00034	34.72422	32.7352	0.1662678	0.1026737	0.1553563	0.0526826
0.0052	0.00372	24.29986	22.83977	0.7065408	0.8056998	0.7278594	-0.07784048
0.004934	0.00298	25.25936	23.06757	0.6388442	0.7984018	0.6536575	-0.1447444
0.000713	0.00101	29.9514	31.46873	0.1537856	0.0989574	0.1679469	0.06898952
0.013656	0.01783	17.48837	18.64683	0.4781982	0.6772169	0.4622981	-0.2149189
0.040293	0.00558	22.52997	13.9477	0.0938642	0.1699076	0.2926723	0.1227647
0.026221	0.0013	28.87011	15.81358	0.8755618	0.7161935	0.7845414	0.06834792
0.035676	0.00145	28.39911	14.4762	0.4502196	0.2821824	0.3601014	0.07791901
0.018983	0.00161	27.9275	17.21626	0.7773133	0.6758654	0.616374	-0.05949138
0.011569	0.0022	26.573	19.36703	0.2205583	0.1424699	0.201792	0.0593222
0.004714	0.00224	26.49144	23.26618	0.8674989	0.777426	0.8604523	0.08302625
0.004634	0.00031	35.09572	23.34005	0.0977435	0.3149286	0.5598328	0.2449042
0.005103	0.02426	16.15117	22.92163	0.7730141	0.8453638	0.732816	-0.1125477

0.046145	0.00551	22.58883	13.35878	0.0922264	0.4155259	0.55913	0.143604
0.000954	0.00137	28.61881	30.20255	0.3952864	0.3078913	0.3957735	0.08788212
0.049864	0.00619	22.08006	13.02212	0.8105952	0.6734893	0.6048874	-0.06860189
0.001093	0.0004	33.97382	29.61199	0.7197196	0.8445653	0.7525873	-0.09197801
0.03677	0.00022	36.48579	14.3451	0.4196918	0.7025192	0.6002851	-0.1022341
0.005073	0.02443	16.121	22.94734	0.711117	0.6512151	0.7497522	0.09853713
0.015412	0.01808	17.42759	18.12127	0.3100628	0.1939103	0.3113194	0.1174091
2.38E-05	7.46E-06	51.27444	46.22751	0.7171186	0.8308882	0.7106617	-0.1202265
0.044434	0.02047	16.88902	13.52286	0.8398725	0.7624643	0.8245339	0.06206955
0.013586	0.01579	18.01591	18.66924	0.7014645	0.7907665	0.6973255	-0.09344106
0.000528	0.0111	19.54694	32.77398	0.7095824	0.7681304	0.6745623	-0.0935682
0.012781	0.01811	17.41983	18.9344	0.8803113	0.9438043	0.8755457	-0.06825856
0.021897	0.03398	14.68731	16.59621	0.7199359	0.6262093	0.7300007	0.1037914
0.000228	0.00015	38.12424	36.42597	0.3364653	0.1643787	0.3346402	0.1702615
0.039469	0.04173	13.79566	14.0374	0.6440175	0.7294816	0.6431648	-0.08631683
0.000711	0.00078	31.08105	31.48001	0.7917115	0.7238983	0.788693	0.06479473
9.07E-05	3.33E-05	44.77123	40.42315	0.1304321	0.052139	0.1216225	0.06948349
0.006326	0.00154	28.13468	21.98887	0.8869046	0.9444699	0.8932647	-0.05120518
0.001196	0.00026	35.78823	29.2237	0.1923109	0.1048492	0.170943	0.06609381
0.01041	0.01405	18.52448	19.82538	0.8375248	0.7017104	0.8536724	0.1519621
0.050062	0.00299	25.23731	13.00493	0.8356041	0.5186334	0.3982818	-0.1203516
0.000544	0.0001	39.90047	32.64323	0.7228748	0.8944809	0.7584698	-0.1360111
0.000223	0.00172	27.64902	36.5164	0.4675542	0.5263244	0.4433698	-0.08295453
0.028209	0.02817	15.5019	15.49619	0.7679517	0.6895683	0.6123442	-0.07722414
0.022211	0.01336	18.74269	16.53424	0.8798138	0.730278	0.8546601	0.1243821
0.026602	0.00127	28.96725	15.75078	0.7817739	0.6825387	0.5692557	-0.113283
0.017781	0.00826	20.82841	17.50036	0.3186602	0.4738832	0.5993165	0.1254333
0.027022	0.00461	23.36634	15.68288	0.5396343	0.623578	0.5712262	-0.05235172
0.012671	0.00927	20.33108	18.97203	0.6276599	0.700675	0.6343932	-0.06628175
0.005998	0.00224	26.50569	22.21978	0.6458341	0.7029911	0.643964	-0.05902711
0.006497	0.00195	27.09035	21.87279	0.8473247	0.7741908	0.8315333	0.05734245
0.009941	0.03581	14.46002	20.02567	0.6890621	0.7587521	0.6621164	-0.09663569
0.000153	0.0049	23.09938	38.14355	0.5796983	0.6331655	0.5412126	-0.09195288
0.030675	0.0039	24.08692	15.13209	0.222971	0.6919411	0.4727961	-0.219145
0.041495	3.37E-05	44.72908	13.82006	0.8497648	0.6942387	0.5943007	-0.09993808
0.049363	0.00971	20.1271	13.06596	0.7925093	0.6657088	0.7401131	0.07440422
0.00333	9.69E-06	50.1373	24.77599	0.2482787	0.4362502	0.5520519	0.1158018
0.042993	0.03601	14.43584	13.66598	0.8054131	0.7285419	0.6544247	-0.07411718
0.001629	8.50E-05	40.70372	27.88207	0.8330426	0.7429295	0.7950042	0.05207469
0.012623	0.00028	35.53649	18.98828	0.3537534	0.1905023	0.2661551	0.07565274
0.045243	0.03108	15.07574	13.44445	0.1042752	0.0302417	0.0898588	0.05961703
0.001529	0.00024	36.16095	28.15598	0.15127	0.0687183	0.141716	0.0729977
0.022116	0.00331	24.80138	16.55297	0.5659914	0.4252707	0.5191202	0.09384944
0.006602	0.00497	23.03682	21.80351	0.7708661	0.5643032	0.7140578	0.1497546
0.00863	0.04922	13.07899	20.63996	0.472865	0.3904724	0.4943535	0.1038811
0.003527	0.01003	19.98871	24.52595	0.8526049	0.9352426	0.8466134	-0.08862916
0.050005	0.03518	14.53717	13.00984	0.3674895	0.3036726	0.3590944	0.05542182
0.000973	0.00166	27.80072	30.11856	0.6667026	0.7875209	0.6717321	-0.1157888
0.046025	1.63E-06	57.88441	13.37003	0.188681	0.7173751	0.7760515	0.05867642
0.002066	0.00186	27.30483	26.84812	0.8758395	0.6666	0.4618822	-0.2047178
0.004229	0.00038	34.22161	23.73729	0.1342311	0.0432361	0.1027142	0.05947816
9.98E-05	0.00077	31.15302	40.00925	0.6618223	0.8468854	0.673834	-0.1730515
0.031331	0.00638	21.95104	15.04024	0.7815573	0.6448455	0.7308058	0.08596027
0.023235	0.01202	19.20046	16.33854	0.6004871	0.7036566	0.6273825	-0.0762741

0.027679	0.005	23.01076	15.57852	0.0821226	0.2771763	0.4236188	0.1464425
4.31E-06	2.65E-05	45.77565	53.65116	0.7218869	0.7940893	0.6351154	-0.1589739
0.040141	6.21E-05	42.06783	13.96415	0.1647578	0.4628214	0.3799778	-0.08284357
0.000501	0.00079	31.00001	33.00505	0.2509709	0.1399156	0.2501151	0.1101995
0.00062	0.00183	27.36388	32.07568	0.6487209	0.7930427	0.6614752	-0.1315674
0.027392	0.00019	37.16562	15.62369	0.7713569	0.6390377	0.5429113	-0.09612637
0.00581	0.00019	37.19462	22.35825	0.8667775	0.5309202	0.6852525	0.1543323
0.023373	0.03838	14.15855	16.31281	0.5719992	0.6858402	0.5542921	-0.131548
0.004219	0.00164	27.84689	23.74791	0.8602226	0.91637	0.8602169	-0.05615314
0.000182	0.00109	29.60636	37.40728	0.4735895	0.560853	0.4632476	-0.09760542
0.000371	0.00106	29.74684	34.31174	0.4615687	0.5135906	0.4088657	-0.104725
0.025334	0.01643	17.84329	15.96293	0.8719588	0.6439919	0.4697419	-0.17425
0.000866	0.00285	25.44588	30.62657	0.7425295	0.8423257	0.7279242	-0.1144016
0.003861	0.00517	22.86277	24.13331	0.7212127	0.8570737	0.7347643	-0.1223094
0.003278	1.08E-05	49.65106	24.84395	0.8513173	0.7434588	0.7954808	0.052022
0.016114	0.00183	27.37542	17.92793	0.6494851	0.7583124	0.6680841	-0.09022821
0.00634	0.00416	23.8061	21.9792	0.5983075	0.675616	0.5976123	-0.07800373
0.021401	0.031	15.08639	16.69572	0.9024243	0.8232512	0.7312335	-0.09201771
0.007148	0.00019	37.20754	21.45833	0.0819171	0.4340432	0.5500093	0.1159661
0.045673	0.00213	26.71524	13.40336	0.2362798	0.3785684	0.4520841	0.07351571
0.006959	0.00929	20.31909	21.57458	0.7368848	0.8023757	0.7290452	-0.07333052
0.017831	0.03394	14.69258	17.48836	0.6290218	0.7534052	0.5964174	-0.1569878
0.014402	0.02494	16.03085	18.41588	0.8269691	0.7594625	0.8379532	0.07849071
0.012524	0.0045	23.46467	19.02268	0.7904055	0.619502	0.7109435	0.09144145
0.015659	0.03241	14.89342	18.05225	0.8719549	0.7313785	0.5488622	-0.1825164
0.003438	0.00209	26.80102	24.63757	0.3811528	0.1261533	0.3453735	0.2192202
0.004954	0.00721	21.41904	23.05067	0.594748	0.7354969	0.5874848	-0.1480121
0.002882	0.00435	23.61451	25.40366	0.8249673	0.8911194	0.8103489	-0.08077044
0.001585	0.00118	29.27264	27.99943	0.1558094	0.0907989	0.1499388	0.05913984
2.52E-06	2.06E-06	56.85527	55.98632	0.4692777	0.6193709	0.4745385	-0.1448324
0.012342	0.00548	22.61012	19.08611	0.4888265	0.6240287	0.5341302	-0.08989856
0.03658	0.02765	15.58285	14.3676	0.8469608	0.7876794	0.7053624	-0.08231699
0.001315	0.00152	28.17174	28.81147	0.169653	0.0837801	0.1660203	0.08224023
0.001409	0.00646	21.90103	28.51197	0.5572971	0.6485529	0.5325021	-0.1160508
0.000853	1.88E-07	67.269	30.68977	0.8397428	0.7343114	0.7903346	0.05602317
0.003482	0.00115	29.40456	24.58219	0.8039366	0.8605689	0.8103056	-0.05026334
0.007295	0.00186	27.30388	21.36986	0.457034	0.6209728	0.4901162	-0.1308565
0.00118	0.0004	33.97844	29.2803	0.7534415	0.8540131	0.7746472	-0.07936589
0.01282	0.01508	18.21661	18.92118	0.8225818	0.6800123	0.544215	-0.1357974
0.036222	8.91E-05	40.50021	14.41026	0.2966816	0.4680983	0.4026173	-0.0654809
0.030006	0.02863	15.4312	15.2279	0.7173299	0.5627143	0.7163592	0.1536449
0.016285	0.01343	18.71882	17.88219	0.8911986	0.744513	0.8690741	0.1245612
0.014255	0.01843	17.34366	18.46023	0.4563636	0.5748456	0.450037	-0.1248086
0.011494	0.00995	20.02074	19.39525	0.7564256	0.8245004	0.7595149	-0.06498548
0.023369	0.02006	16.97679	16.31366	0.686186	0.7596533	0.6874955	-0.07215772
0.003301	0.00537	22.69952	24.81413	0.5958666	0.6890255	0.6040443	-0.08498122
0.003774	0.00078	31.0659	24.23184	0.1746618	0.0912499	0.1455567	0.05430687
2.92E-05	0.00013	38.9347	45.33929	0.1453281	0.0863999	0.1597112	0.07331137
0.019526	0.01787	17.47812	17.09396	0.7295441	0.8452809	0.7365978	-0.1086831
0.003826	0.00235	26.28674	24.17239	0.843621	0.7234612	0.6299099	-0.09355125
0.019097	0.00292	25.33937	17.19024	0.2038425	0.1419333	0.1999543	0.05802095
0.033114	0.007	21.55139	14.79985	0.8274467	0.7464982	0.6812173	-0.06528095
0.01245	0.02463	16.08511	19.04834	0.1425638	0.2178149	0.1318576	-0.08595732
0.020997	0.04267	13.69854	16.77844	0.4680904	0.6072604	0.4337196	-0.1735408



0.010406	0.00868	20.61278	19.82719	0.7834269	0.7092152	0.7827935	0.0735784
0.0043	0.00147	28.33637	23.66578	0.8015879	0.7334979	0.7850296	0.05153178
0.006136	0.01749	17.57123	22.12087	0.7518707	0.8030028	0.7384464	-0.06455635
0.008316	0.005	23.01457	20.80077	0.8552079	0.9354513	0.8679941	-0.06745712
0.03339	0.00516	22.87003	14.7639	0.5162322	0.4353149	0.4911558	0.05584098
0.007263	0.00403	23.94508	21.38905	0.8310708	0.6460337	0.8154905	0.1694569
0.001241	0.00158	28.01228	29.06403	0.6857328	0.7690109	0.6922814	-0.07672945
0.000484	0.00094	30.24652	33.1487	0.4580064	0.5457947	0.4483223	-0.09747235
0.010014	0.00061	32.1347	19.99372	0.1620311	0.2373731	0.3420503	0.1046772
0.005784	0.00724	21.4044	22.37761	0.6641242	0.7530566	0.6629184	-0.09013825
0.008994	0.01193	19.23443	20.46026	0.6256166	0.5749315	0.4927546	-0.08217686
0.015632	0.01452	18.37969	18.05985	0.5574176	0.6214767	0.5528331	-0.06864366
0.014307	0.01178	19.29028	18.44462	0.0810163	0.2110091	0.0839199	-0.1270892
5.61E-05	1.38E-05	48.60973	42.50829	0.7533185	0.8500517	0.7735659	-0.07648583
0.011867	0.03207	14.93834	19.25658	0.7213745	0.7947816	0.7058856	-0.0888959
0.002091	0.00309	25.10699	26.79573	0.8506985	0.7977789	0.8547087	0.05692977
0.015687	0.01561	18.06671	18.04451	0.8218538	0.9055857	0.8190604	-0.08652529
0.00525	2.01E-06	56.96326	22.79811	0.1462256	0.0743329	0.1337264	0.0593935
0.000338	0.00082	30.8685	34.71495	0.7187991	0.8289449	0.7033105	-0.1256343
0.005434	0.00052	32.87158	22.64844	0.8577176	0.5423908	0.7493671	0.2069763
0.014438	0.0392	14.06722	18.40503	0.8675514	0.8123938	0.8872448	0.07485096
0.028095	0.04784	13.20181	15.51378	0.3805834	0.2787627	0.1583583	-0.1204044
0.0437	0.03816	14.18396	13.59523	0.5635283	0.7285458	0.5699313	-0.1586144
0.000263	6.07E-05	42.16534	35.79543	0.5742712	0.6533235	0.5935414	-0.05978203
0.010735	0.00239	26.21276	19.69185	0.1360943	0.047347	0.1051616	0.05781456
0.001	0.00144	28.43063	30.00047	0.105833	0.2267692	0.3692353	0.1424661
0.04074	0.03728	14.2854	13.89978	0.8108308	0.7504914	0.8097815	0.05929007
0.007853	0.04005	13.97413	21.04973	0.5872158	0.5315424	0.4555288	-0.07601354
0.001606	5.89E-05	42.29695	27.94215	0.8648543	0.8117574	0.7187998	-0.09295754
0.021963	0.00515	22.87871	16.58302	0.8359765	0.6233654	0.7704141	0.1470487
0.029086	0.02672	15.73177	15.36313	0.7564496	0.6145787	0.7470176	0.1324389
0.000961	2.07E-05	46.8405	30.17398	0.2107778	0.1264773	0.1940794	0.06760215
0.023686	0.02747	15.61194	16.25504	0.1843393	0.3690022	0.5504395	0.1814373
0.038522	0.01759	17.54638	14.14286	0.1648662	0.2665244	0.3415479	0.07502349
0.003287	0.00134	28.7166	24.8326	0.8003293	0.8857384	0.8122844	-0.07345408
0.01043	0.01115	19.52899	19.81702	0.871188	0.7492993	0.6240113	-0.1252881
0.014017	0.01216	19.14947	18.5335	0.7392099	0.8376845	0.7451225	-0.09256192
0.001031	0.00023	36.43059	29.86743	0.7545052	0.8929589	0.7839188	-0.1090401
0.02479	0.02048	16.88737	16.05725	0.5187252	0.4303296	0.5065282	0.07619856
0.044493	0.00129	28.90159	13.51706	0.6543923	0.442625	0.3409895	-0.1016355
0.013337	0.00169	27.71502	18.74934	0.8831251	0.7154685	0.8292579	0.1137894
0.04349	0.01767	17.52788	13.6161	0.5664052	0.691643	0.602759	-0.08888398
0.010596	0.00717	21.44313	19.74854	0.8197479	0.9103968	0.8339484	-0.07644846
0.002722	0.00862	20.64733	25.65081	0.8904717	0.7660065	0.6024807	-0.1635258
0.042693	0.01813	17.41567	13.69645	0.9239702	0.825211	0.9002693	0.07505824
0.020555	0.02547	15.93987	16.8708	0.8832207	0.9364047	0.882467	-0.05393775
0.01663	1.95E-06	57.10811	17.79105	0.206587	0.6459522	0.5444348	-0.1015174
0.001129	0.00239	26.21095	29.4733	0.3269518	0.25603	0.328014	0.07198393
0.046891	0.00209	26.8013	13.28914	0.784813	0.6095027	0.5353323	-0.07417042
0.034811	0.00027	35.76222	14.58288	0.8812075	0.7808341	0.8334336	0.05259943
0.003379	0.00144	28.43125	24.71227	0.8318254	0.768416	0.8218388	0.05342275
0.003126	0.00083	30.81217	25.05002	0.9310554	0.8167961	0.635815	-0.1809812
0.000245	0.00038	34.24778	36.10877	0.6582272	0.8778235	0.6959895	-0.181834
0.000249	0.00024	36.22859	36.03589	0.4559722	0.5623823	0.4581748	-0.1042075

0.033851	0.00455	23.41617	14.70424	0.8781958	0.7493948	0.645893	-0.1035018
0.044746	7.97E-05	40.98754	13.49246	0.780368	0.4829015	0.574537	0.09163545
0.00056	0.00073	31.36802	32.51521	0.1808314	0.0999735	0.1839484	0.08397487
0.001599	8.24E-05	40.84269	27.9604	0.8912277	0.762042	0.6315625	-0.1304796
2.01E-07	4.12E-07	63.84913	66.9644	0.1638273	0.0504293	0.1523731	0.1019438
0.048612	0.04623	13.35071	13.13261	0.3263431	0.2657687	0.3254998	0.05973108
0.02594	0.02186	16.6032	15.86038	0.5403783	0.6087258	0.5443069	-0.06441894
0.00649	0.00882	20.54292	21.87765	0.0786403	0.2742642	0.4512424	0.1769781
0.026101	0.0016	27.97227	15.83339	0.7687448	0.6685766	0.7236099	0.05503324
0.007804	1.59E-05	47.99707	21.07677	0.7519343	0.8498016	0.7884341	-0.06136741
0.001114	0.00134	28.73795	29.53284	0.8274692	0.9243385	0.839084	-0.08525457
0.006408	0.0017	27.70587	21.93285	0.7562437	0.6818277	0.6126374	-0.06919029
0.007071	0.02388	16.21883	21.50494	0.8258746	0.877278	0.8005078	-0.0767702
0.013027	0.00294	25.31266	18.85154	0.0457111	0.2181637	0.1022923	-0.1158715
0.005024	0.03443	14.63065	22.98968	0.8677791	0.7727795	0.6192149	-0.1535646
0.005729	0.00533	22.72882	22.41925	0.3046098	0.4227355	0.5015307	0.07879516
0.021283	0.00013	38.84256	16.7197	0.4616182	0.6648619	0.7369016	0.07203978
0.03536	2.34E-05	46.30551	14.51485	0.4384159	0.7774058	0.8556855	0.07827967
0.000108	0.00059	32.30956	39.6499	0.4566199	0.5582545	0.4223594	-0.1358951
0.003504	2.65E-05	45.75991	24.55466	0.7611381	0.6013849	0.6731957	0.07181079
0.037546	0.02139	16.69706	14.25434	0.7601584	0.6176442	0.7402691	0.1226249
0.001518	0.00057	32.41705	28.18694	0.6268824	0.7780349	0.6395535	-0.1384814
0.016403	0.00348	24.5802	17.8507	0.8227616	0.701405	0.5909303	-0.1104747
0.001682	0.00835	20.78098	27.74303	0.6212745	0.7966639	0.5827264	-0.2139376
0.02146	0.02955	15.29422	16.68365	0.9174187	0.8492242	0.9214214	0.0721972
0.049687	0.02397	16.20376	13.03754	0.7008559	0.5613776	0.673945	0.1125674
0.021429	0.03915	14.07316	16.68996	0.8655113	0.7734091	0.6512853	-0.1221238
0.001231	0.00065	31.9009	29.09809	0.6854569	0.5467063	0.42359	-0.1231163
0.000552	0.0012	29.21602	32.58257	0.6546694	0.757126	0.6255437	-0.1315823
0.001937	0.00041	33.8482	27.12887	0.9044245	0.6712202	0.5532805	-0.1179397
0.001157	0.00628	22.02238	29.36514	0.6326463	0.7943465	0.6021432	-0.1922033
0.021721	0.00371	24.30894	16.63122	0.9017544	0.7117222	0.568566	-0.1431562
0.032308	0.00082	30.86177	14.90695	0.2946759	0.5156855	0.4157198	-0.09996568
0.011914	0.01968	17.06057	19.23932	0.7138713	0.7947173	0.7024674	-0.0922498
0.014126	0.01498	18.2447	18.49989	0.5939001	0.7429477	0.5851247	-0.157823
0.014579	3.03E-06	55.18781	18.36279	0.9015352	0.8374169	0.8888794	0.05146243
5.22E-05	0.00016	38.02383	42.82452	0.8102211	0.9184526	0.7960035	-0.1224492
0.035615	0.0203	16.92424	14.48365	0.8567665	0.7620723	0.8389941	0.07692181
0.015479	0.01395	18.55477	18.10268	0.6580511	0.7961558	0.6628908	-0.133265
0.001136	2.89E-05	45.39139	29.44685	0.9180474	0.8231634	0.9076868	0.08452342
0.009544	1.22E-05	49.13482	20.20287	0.8748404	0.6910113	0.7768567	0.08584546
0.048422	0.00048	33.18859	13.14957	0.6473184	0.4445752	0.3707281	-0.07384705
0.023005	0.01912	17.18436	16.38187	0.7859942	0.8718547	0.7927414	-0.07911328
0.014701	0.00449	23.4744	18.32644	0.9040602	0.836758	0.8883115	0.05155353
0.015608	0.00772	21.1235	18.06639	0.6010967	0.7099254	0.8043191	0.09439375
0.015598	0.00017	37.58212	18.0693	0.179671	0.5429871	0.6660642	0.1230771
0.016224	0.00026	35.79128	17.89836	0.8274518	0.6711357	0.730107	0.05897133
0.03526	0.03287	14.83241	14.52721	0.0830498	0.1368273	0.085638	-0.05118927
1.44E-05	4.20E-05	43.77133	48.42076	0.2390897	0.0723017	0.2250937	0.152792
0.032511	0.00123	29.10602	14.87967	0.1123064	0.3311467	0.4156697	0.08452301
0.004563	0.005	23.0114	23.40708	0.1689414	0.0883893	0.1566999	0.06831062
0.026346	0.00185	27.32719	15.79286	0.850485	0.6441509	0.5613074	-0.0828435
0.043377	0.02639	15.78587	13.62738	0.1373843	0.3031052	0.4338448	0.1307396
0.021282	0.01268	18.96748	16.71991	0.3563455	0.1984015	0.3329133	0.1345118

2.94E-05	0.00014	38.47894	45.31158	0.6175281	0.7594566	0.6285877	-0.1308689
0.023534	0.03061	15.14151	16.28307	0.9036391	0.8522902	0.9059547	0.05366449
0.019822	0.01866	17.291	17.02851	0.2921565	0.3850904	0.461421	0.07633059
0.022595	0.00205	26.88507	16.45985	0.0944079	0.2842546	0.169268	-0.1149866
0.043123	0.00729	21.36993	13.65289	0.8313498	0.7380219	0.7966029	0.05858108
0.004466	0.0029	25.37936	23.50129	0.6923441	0.8403087	0.7254432	-0.1148654
0.030694	0.00038	34.14615	15.12951	0.700008	0.9391826	0.874895	-0.06428768
0.027947	0.04458	13.50817	15.53664	0.7833934	0.6201909	0.8078218	0.1876309
0.000235	0.00029	35.34556	36.2892	0.8900807	0.7649472	0.5664849	-0.1984622
0.026712	3.62E-06	54.40999	15.73286	0.8149154	0.6716896	0.5986533	-0.07303637
0.007829	0.00192	27.1624	21.06307	0.8672543	0.7849349	0.8375684	0.05263348
0.016079	0.00572	22.42237	17.93746	0.0451727	0.1250953	0.0679694	-0.05712587
0.0002	2.70E-05	45.68158	36.99986	0.0822144	0.0156951	0.0674088	0.05171369
0.031366	0.03221	14.91949	15.03538	0.8443015	0.8986212	0.8461917	-0.0524295
0.037604	0.04789	13.19785	14.24767	0.8967398	0.8303842	0.8989766	0.06859245
0.003414	0.00187	27.27253	24.66692	0.830644	0.9020984	0.8420197	-0.06007875
0.006296	0.00019	37.10784	22.00954	0.8059091	0.5953196	0.7087934	0.1134738
1.94E-05	4.47E-06	53.49524	47.1288	0.2385417	0.0862664	0.2116829	0.1254164
0.045215	0.0174	17.59367	13.44722	0.2181154	0.125644	0.1898098	0.06416587
0.004289	0.00114	29.41603	23.67609	0.2511451	0.1339559	0.2168606	0.08290469
0.03528	0.01622	17.90039	14.52466	0.8838354	0.7924815	0.8648179	0.07233638
9.77E-05	0.00056	32.53086	40.10104	0.6630797	0.782962	0.5798724	-0.2030896
0.031572	0.01597	17.9662	15.00694	0.0338903	0.1463751	0.2514826	0.1051075
0.00789	0.00208	26.81025	21.0292	0.8795954	0.7631191	0.83615	0.07303089
0.003354	0.00111	29.55524	24.7445	0.848424	0.7375118	0.8560418	0.11853
0.032682	0.00022	36.6481	14.85696	0.8447424	0.7457774	0.6908422	-0.05493521
0.044044	0.04723	13.25796	13.56112	0.8821619	0.7804712	0.8826457	0.1021745
0.004268	0.00255	25.93497	23.69743	0.31598	0.1375951	0.3436299	0.2060348
0.002406	0.00258	25.89186	26.18782	0.592887	0.712796	0.5978027	-0.1149933
0.002905	0.00583	22.3399	25.36854	0.1439861	0.088746	0.1398778	0.05113183
0.048687	0.0048	23.1891	13.12591	0.1052409	0.2868758	0.3809565	0.09408069
0.001306	0.01651	17.82237	28.83994	0.82906	0.887808	0.7921042	-0.09570387
0.04346	0.04698	13.28093	13.61909	0.8850669	0.7797921	0.8926473	0.1128552
0.039431	0.01351	18.69456	14.04166	0.5775174	0.4928643	0.4247287	-0.06813559
0.002852	0.00187	27.27536	25.4482	0.740577	0.8599702	0.7443359	-0.1156343
0.000905	0.00051	32.90078	30.43517	0.3030323	0.1634322	0.293519	0.1300868
0.003508	0.00288	25.40055	24.54932	0.6184628	0.7514686	0.6312929	-0.1201757
0.005717	6.95E-08	71.58224	22.42853	0.1550157	0.9194262	0.7951536	-0.1242726
0.000398	5.81E-05	42.35508	34.00518	0.580981	0.6903466	0.588792	-0.1015546
0.042672	0.01319	18.79906	13.69859	0.8739178	0.6930035	0.8099168	0.1169133
0.010046	0.00619	22.08026	19.97992	0.4678681	0.5311862	0.4748383	-0.05634791
0.001513	0.0029	25.38183	28.20029	0.7884851	0.8728751	0.7706379	-0.1022371
2.47E-06	3.22E-07	64.92649	56.06821	0.8868408	0.9722193	0.9050875	-0.06713192
0.000233	0.00322	24.9156	36.33147	0.2333948	0.1516526	0.2795776	0.127925
0.003202	0.00781	21.07315	24.94611	0.8682075	0.9306501	0.8602013	-0.0704488
0.032627	0.01939	17.12494	14.86422	0.8689252	0.7741772	0.6817358	-0.09244142
0.016935	0.00051	32.88909	17.71214	0.7838579	0.698935	0.7512338	0.05229883
0.016803	0.04823	13.16674	17.74607	0.8691561	0.920131	0.8493435	-0.07078751
0.00038	0.00058	32.3681	34.19961	0.6336142	0.7316475	0.6113539	-0.1202936
0.019323	0.02289	16.40306	17.13927	0.7518544	0.6531609	0.7604517	0.1072908
0.004174	0.00349	24.56744	23.79454	0.6388773	0.7377453	0.6528534	-0.08489195
0.024503	0.02832	15.47886	16.10778	0.4433223	0.3853742	0.4455742	0.06019998
0.026759	2.58E-05	45.88404	15.72525	0.8230165	0.6944226	0.6381171	-0.05630549
0.020559	2.41E-05	46.17836	16.86992	0.3278966	0.7082238	0.7792835	0.07105976

0.010575	0.00332	24.79483	19.75728	0.867412	0.7927181	0.8492206	0.05650246
0.038459	0.0452	13.44874	14.15	0.3861322	0.3099944	0.3905753	0.08058085
0.021788	6.24E-06	52.05157	16.61774	0.8845916	0.7652391	0.642702	-0.1225372
0.009891	0.04402	13.56382	20.04745	0.6731067	0.7429194	0.6382778	-0.1046415
0.027919	0.04321	13.64436	15.54094	0.9742044	0.8708603	0.7452748	-0.1255855
0.031974	0.03777	14.22818	14.95199	0.7686507	0.6507835	0.7756913	0.1249078
0.039158	5.47E-06	52.62352	14.07184	0.0779213	0.3264945	0.4180151	0.09152053
0.019199	0.02138	16.70054	17.16713	0.5270326	0.4001769	0.5265546	0.1263777
0.040811	0.00892	20.49777	13.89218	0.797745	0.6083708	0.5031391	-0.1052317
0.023506	0.00266	25.74926	16.28812	0.4937778	0.6497245	0.5769039	-0.07282061
0.013363	0.00817	20.87554	18.74101	0.5388238	0.6164249	0.552265	-0.06415987
0.033661	0.0131	18.82657	14.72867	0.4253372	0.5636171	0.6605304	0.09691332
0.008517	0.00688	21.62132	20.69736	0.7128208	0.8270869	0.7299699	-0.09711702
0.01283	0.01907	17.19536	18.91774	0.6747405	0.5507843	0.406777	-0.1440073
0.028472	0.0038	24.19965	15.45588	0.3759972	0.2597164	0.3203093	0.06059283
0.043924	0.02438	16.13045	13.57302	0.6533501	0.7767444	0.6727715	-0.103973
0.003963	2.82E-05	45.49103	24.01945	0.7206408	0.8611777	0.8061129	-0.05506478
0.00738	0.00805	20.94092	21.3197	0.9195774	0.8469542	0.6591819	-0.1877724
0.016824	0.01131	19.46674	17.74075	0.8432519	0.7334191	0.8307722	0.09735305
0.043067	0.01884	17.24858	13.65856	0.8294517	0.7037481	0.6106747	-0.09307346
0.016902	3.68E-05	44.34679	17.72065	0.4599473	0.6547571	0.7089776	0.0542205
0.017964	0.00209	26.80461	17.45585	0.7677195	0.6682122	0.7335493	0.06533703
0.000473	0.0009	30.46334	33.24979	0.5024546	0.8023044	0.5213775	-0.2809269
0.047774	0.02757	15.59525	13.20806	0.9023409	0.8033015	0.8842801	0.08097868
0.015356	0.01659	17.80202	18.13733	0.0822827	0.1484223	0.2122458	0.06382347
0.049248	0.00584	22.33298	13.07614	0.8140785	0.9188936	0.8615447	-0.057349
0.005151	0.00316	25.0015	22.88068	0.7759375	0.8761887	0.7823561	-0.09383251
0.018878	0.01727	17.62757	17.24044	0.7269979	0.8463262	0.7297845	-0.1165417
7.04E-05	7.50E-05	41.25124	41.52267	0.6162119	0.7146556	0.6134946	-0.101161
6.38E-06	1.06E-05	49.74123	51.95158	0.4188342	0.2652097	0.431271	0.1660613
0.000316	0.01094	19.6101	35.00918	0.5878183	0.65366	0.5332654	-0.1203946
0.00349	7.32E-05	41.35424	24.57154	0.8515962	0.6369464	0.5143666	-0.1225798
0.028277	0.00106	29.75561	15.48565	0.8818864	0.7726756	0.8233787	0.05070307
0.013267	0.00043	33.64436	18.7724	0.7531123	0.5945932	0.5089407	-0.08565255
0.032271	0.02359	16.2736	14.91194	0.8617278	0.772832	0.6122582	-0.1605738
0.000425	0.00027	35.73068	33.71386	0.7356935	0.7971465	0.7335882	-0.0635583
0.000711	0.00125	29.04028	31.4802	0.3701958	0.5097972	0.3798698	-0.1299273
2.47E-05	2.27E-06	56.44815	46.06551	0.7885983	0.5831733	0.7312129	0.1480396
0.000757	0.00692	21.60127	31.20761	0.9341682	0.7608689	0.5526709	-0.208198
0.003306	0.00207	26.83499	24.80742	0.1603411	0.0927514	0.1457297	0.0529783
0.006525	0.03629	14.4027	21.85427	0.6841486	0.7418074	0.653003	-0.08880442
0.043442	0.00036	34.40371	13.62089	0.8528629	0.7579409	0.6791405	-0.07880037
0.017929	0.00299	25.24906	17.46451	0.8585238	0.7394677	0.6572999	-0.08216779
5.98E-05	5.97E-05	42.23673	42.23532	0.8618195	0.9409814	0.8640677	-0.07691377
0.012751	0.03884	14.10684	18.94456	0.8032519	0.7417738	0.6469935	-0.09478028
0.012294	0.00773	21.11883	19.10302	0.6021317	0.6985875	0.6208968	-0.07769069
0.001403	0.00694	21.58869	28.53027	0.7143877	0.7992144	0.6904493	-0.1087651
0.019005	0.00952	20.21174	17.21143	0.7536853	0.6588535	0.5786286	-0.08022492
0.033362	2.73E-06	55.63124	14.76746	0.2934413	0.4639531	0.5195332	0.0555801
0.014345	0.00522	22.82277	18.43295	0.7145351	0.842065	0.7361667	-0.1058983
0.014315	0.00258	25.88753	18.4422	0.4620914	0.6297221	0.74452	0.1147979
0.040087	0.03125	15.05085	13.96997	0.883032	0.7195301	0.5798535	-0.1396766
0.032393	0.0487	13.12444	14.89544	0.4051667	0.52934	0.3935686	-0.1357713
0.022725	0.00873	20.5892	16.43503	0.645747	0.7402792	0.6684349	-0.07184439

2.04E-05	6.87E-06	51.62751	46.90474	0.1176378	0.0345047	0.1058829	0.07137817
0.033848	1.38E-06	58.59266	14.70468	0.4205086	0.7400886	0.6689662	-0.07112242
0.043402	8.31E-08	70.80238	13.62489	0.2028742	0.9107256	0.8332402	-0.0774854
0.005667	0.00571	22.43563	22.4667	0.8537739	0.7819801	0.8575943	0.07561418
0.007589	0.00515	22.8853	21.19835	0.7510244	0.860808	0.7640779	-0.09673008
0.002689	0.00307	25.12931	25.70418	0.8524051	0.9160048	0.8510232	-0.06498164
0.01124	0.04571	13.40021	19.49249	0.7263519	0.7919228	0.6875013	-0.1044215
0.006218	0.00017	37.60614	22.06378	0.8551856	0.7460386	0.8005395	0.05450095
0.01898	0.00327	24.85142	17.21704	0.1001154	0.1926348	0.2792888	0.08665394
0.002169	0.00044	33.55924	26.63788	0.8064401	0.7369596	0.7895491	0.05258957
0.006315	0.00179	27.4685	21.99618	0.5157267	0.6204772	0.6986008	0.07812359
5.74E-05	6.14E-06	52.11797	42.41298	0.8318451	0.9044272	0.8415504	-0.06287684
8.98E-05	0.00187	27.28999	40.46802	0.5401329	0.6733448	0.4836999	-0.1896448
0.030946	0.00313	25.04274	15.09398	0.8944517	0.7960889	0.847763	0.05167416
0.004567	0.00155	28.08982	23.40369	0.7940664	0.8945904	0.8108538	-0.08373652
0.010642	0.01602	17.95325	19.72979	0.7852407	0.7132819	0.6353528	-0.07792907
0.026717	0.03336	14.76761	15.73215	0.563587	0.6760235	0.5569329	-0.1190907
0.049394	0.02191	16.5931	13.06323	0.1087207	0.1963539	0.1282756	-0.06807823
0.026911	0.01424	18.46564	15.70073	0.8237273	0.7293692	0.8125133	0.0831441
0.009139	0.01206	19.18749	20.39094	0.701557	0.8137622	0.6793411	-0.1344212
2.08E-05	5.33E-05	42.73177	46.82324	0.2056252	0.0738897	0.2067986	0.1329088
0.019411	0.01961	17.07442	17.11954	0.1333599	0.0832047	0.1343776	0.0511729
0.005297	0.00709	21.49073	22.75949	0.1515458	0.087055	0.1507002	0.06364518
0.002668	0.00331	24.79974	25.73733	0.7546231	0.676255	0.7651024	0.08884738
0.039451	0.03819	14.18074	14.0394	0.9204264	0.8121557	0.9131691	0.1010134
0.015677	0.03057	15.14729	18.04725	0.6945434	0.7924558	0.6813546	-0.1111011
0.001225	0.0007	31.56532	29.1204	0.3248065	0.1672415	0.2893693	0.1221278
0.026415	0.00218	26.61524	15.78145	0.8555417	0.725664	0.6609434	-0.06472059
0.002921	0.00204	26.90685	25.34443	0.8288021	0.648322	0.5015188	-0.1468031
0.045421	0.02219	16.53801	13.42747	0.843274	0.7721933	0.8275336	0.05534031
0.004167	0.00645	21.90138	23.8018	0.6810138	0.7663321	0.668176	-0.09815612
0.01295	0.04712	13.26773	18.87745	0.7228294	0.7852458	0.699258	-0.08598772
0.000312	0.00014	38.39031	35.06423	0.778533	0.880533	0.7775825	-0.1029505
1.27E-05	0.00023	36.44751	48.97323	0.4817121	0.5699801	0.4511502	-0.1188299
1.75E-05	3.90E-05	44.08462	47.56725	0.7334689	0.8276281	0.6834096	-0.1442186
0.029242	0.04249	13.71677	15.34	0.851854	0.7950884	0.8593762	0.06428776
0.046235	2.18E-05	46.61219	13.35025	0.7358395	0.5544093	0.4973585	-0.05705079
0.001837	0.00013	38.81427	27.35946	0.8279248	0.7368689	0.7953491	0.05848011
0.001881	0.02723	15.65025	27.2568	0.6700674	0.7263368	0.6162245	-0.1101123
0.045643	0.02758	15.59432	13.40624	0.6365556	0.7127314	0.6455275	-0.06720389
0.020677	0.00054	32.67884	16.84505	0.7562342	0.5998752	0.6739659	0.07409074
0.00013	6.75E-05	41.7091	38.85697	0.7118993	0.8171725	0.7212147	-0.09595779
0.000508	3.52E-05	44.52944	32.93825	0.2147363	0.1093329	0.1996078	0.09027498
0.028613	0.00139	28.55929	15.43439	0.8276319	0.6258739	0.5287176	-0.09715631
0.022862	0.03914	14.07352	16.40895	0.5899236	0.65182	0.5743912	-0.07742883
0.040504	0.04245	13.72091	13.92503	0.1099529	0.2077289	0.338538	0.1308091
0.003508	0.00294	25.31131	24.54885	0.1365373	0.0686076	0.1290224	0.06041477
0.037984	0.03518	14.53734	14.20404	0.8818168	0.8211229	0.8774875	0.05636464
0.021655	0.04537	13.43234	16.6445	0.1657902	0.2331108	0.150701	-0.08240983
0.0154	0.01862	17.29989	18.12486	0.7740464	0.6772859	0.777559	0.1002731
0.000591	0.00124	29.08303	32.2855	0.4318449	0.5389892	0.4275019	-0.1114873
0.000115	0.00024	36.20679	39.39191	0.3086222	0.2060433	0.294549	0.08850565
0.000235	6.94E-05	41.58875	36.28203	0.1116091	0.0322234	0.10562	0.07339666
0.047084	0.03189	14.96345	13.27125	0.9117861	0.8407304	0.9042619	0.06353152

0.04299	0.02891	15.38955	13.66629	0.0918891	0.1614597	0.1006754	-0.06078428
0.047825	0.01155	19.37239	13.20344	0.771607	0.5872215	0.7056645	0.118443
0.009298	1.15E-06	59.37452	20.31623	0.2386364	0.7017052	0.8037419	0.1020367
3.18E-06	5.48E-07	62.61282	54.9796	0.1084849	0.0269372	0.0953716	0.06843439
0.008612	0.00572	22.4237	20.64881	0.8587509	0.7735134	0.8431984	0.06968502
0.03933	0.04636	13.33832	14.05272	0.9233919	0.803007	0.6665394	-0.1364676
0.018217	0.00992	20.03611	17.39521	0.7754652	0.5620582	0.7412846	0.1792265
0.024126	0.00332	24.78288	16.17512	0.734557	0.57569	0.4802946	-0.09539542
0.006899	0.00134	28.73039	21.61211	0.1235471	0.052651	0.1060227	0.05337163
0.002932	3.48E-07	64.58117	25.32787	0.2230011	0.0899977	0.1535226	0.06352489
0.002872	0.00201	26.97806	25.41752	0.2220595	0.1047377	0.208545	0.1038073
0.000553	0.00156	28.07622	32.57515	0.439437	0.5278609	0.4220254	-0.1058356
0.025279	0.02746	15.61257	15.97248	0.8366659	0.7780156	0.836683	0.05866751
0.039925	0.0014	28.54121	13.98752	0.1670977	0.364151	0.4448101	0.08065912
0.002719	0.0017	27.70404	25.65623	0.1540488	0.0874349	0.1554601	0.06802513
0.042973	0.04565	13.40593	13.66802	0.9016147	0.8404166	0.8999226	0.05950608
0.018687	0.01988	17.0159	17.28454	0.0811297	0.1567725	0.2683944	0.1116219
0.041013	0.0005	32.96772	13.87084	0.8544837	0.6234208	0.7039346	0.08051378
0.011514	0.00674	21.71221	19.38771	0.7023376	0.8559436	0.7399181	-0.1160255
0.002151	0.00024	36.1475	26.67286	0.8140835	0.9095203	0.8301442	-0.07937606
0.037977	0.00711	21.48018	14.2048	0.7956955	0.7001569	0.7638899	0.06373298
0.017955	0.01992	17.00795	17.45823	0.8943105	0.7662665	0.8920727	0.1258063
2.40E-05	3.63E-05	44.40636	46.19572	0.7778626	0.8800185	0.7813649	-0.09865364
0.008111	0.00985	20.06406	20.90942	0.7049353	0.5627502	0.7126658	0.1499156
0.023681	0.00283	25.4756	16.25603	0.8628965	0.7311865	0.8152566	0.08407006
0.012342	0.00287	25.4157	19.0862	0.0448843	0.1604409	0.2506249	0.09018401
0.039436	0.00563	22.49468	14.04109	0.8957549	0.7680137	0.6872116	-0.08080208
0.002577	0.00666	21.76235	25.88883	0.780332	0.8378958	0.7766702	-0.06122558
0.003431	0.00292	25.34237	24.64555	0.4694073	0.6005455	0.4651218	-0.1354238
0.012693	0.00903	20.44508	18.96427	0.0369174	0.1040999	0.0456362	-0.05846371
0.043635	0.00711	21.48038	13.6016	0.8987426	0.8007259	0.7419658	-0.05876008
0.043143	0.02811	15.51069	13.65094	0.1319657	0.1821765	0.2576776	0.07550109
0.010254	0.00565	22.48056	19.89112	0.7206036	0.777426	0.720231	-0.05719502
0.049937	0.00093	30.29307	13.01579	0.8408178	0.7096761	0.6299762	-0.07969993
0.005985	1.94E-07	67.12531	22.22947	0.4409542	0.7201764	0.7873113	0.06713483
0.010306	0.00465	23.32575	19.86912	0.8118407	0.8737906	0.8214892	-0.05230144
0.002787	0.00339	24.70294	25.54897	0.4627761	0.2998958	0.4522934	0.1523976
5.98E-05	0.00194	27.11209	42.23132	0.7760727	0.8300589	0.7476571	-0.08240177
0.001726	0.00314	25.02628	27.6284	0.6539361	0.7812539	0.6650311	-0.1162229
0.00377	0.03255	14.87484	24.23611	0.5796253	0.6594414	0.5279353	-0.131506
0.000105	2.30E-06	56.38147	39.78276	0.1540719	0.047329	0.1237852	0.07645618
0.000143	6.70E-07	61.74245	38.4461	0.1065205	0.0325746	0.0935367	0.06096213
0.008604	0.00111	29.54633	20.65293	0.1494179	0.0711187	0.1365467	0.06542801
0.017472	0.01677	17.75526	17.57655	0.8355892	0.7214189	0.8359811	0.1145621
0.026622	0.00032	35.01258	15.74763	0.2353154	0.4831477	0.5759391	0.09279136
0.026667	0.00025	36.09031	15.7402	0.1807667	0.7577309	0.5746812	-0.1830498
0.047273	0.01546	18.10839	13.2539	0.7225794	0.4733971	0.6281389	0.1547417
0.000391	1.90E-05	47.21473	34.07998	0.7052592	0.824616	0.8999611	0.07534511
0.002334	0.00352	24.53947	26.31822	0.5203877	0.5850685	0.5167691	-0.06829946
0.02666	1.12E-05	49.51286	15.74137	0.3003727	0.6803812	0.7646407	0.08425947
0.041501	0.00673	21.71784	13.81942	0.6140274	0.4739444	0.3806328	-0.09331165
0.041779	0.0089	20.50723	13.7904	0.6902875	0.5417452	0.6298674	0.08812219
0.003068	0.00127	28.96455	25.13103	0.1083894	0.039934	0.0996856	0.05975161
0.006782	0.00135	28.69175	21.68663	0.3681823	0.2343133	0.3345845	0.1002712

0.016854	0.00244	26.12811	17.73288	0.795696	0.6775525	0.7523566	0.07480405
0.001099	0.0009	30.44106	29.59048	0.8973907	0.954055	0.8947061	-0.05934889
0.036	0.01761	17.54236	14.43692	0.4526565	0.6195458	0.7004206	0.08087476
0.00147	0.00036	34.41142	28.32726	0.1705433	0.106744	0.1760935	0.06934949
0.048972	0.0319	14.96253	13.1005	0.2110443	0.116954	0.1943608	0.07740674
0.000786	0.0009	30.4361	31.04819	0.8618816	0.8090922	0.861505	0.05241278
7.36E-06	2.88E-06	55.40488	51.33319	0.4954281	0.6245164	0.4883976	-0.1361188
0.000677	0.00026	35.92624	31.69553	0.796406	0.7094682	0.7824047	0.07293648
0.01486	0.00014	38.4743	18.27988	0.8790458	0.6986388	0.6047639	-0.0938749
0.000162	0.00047	33.25293	37.91433	0.2652478	0.1185531	0.2641537	0.1456006
0.000271	0.0003	35.15982	35.67342	0.8116754	0.8961445	0.814972	-0.0811725
0.004752	0.00734	21.34182	23.23106	0.4210304	0.1871446	0.3593923	0.1722477
0.020531	0.01931	17.14142	16.87593	0.0555912	0.1463033	0.0556683	-0.09063495
0.049061	0.00092	30.37643	13.09263	0.8125089	0.5158642	0.4059564	-0.1099077
0.01656	0.00324	24.89579	17.80945	0.1494146	0.3992559	0.5378442	0.1385883
7.98E-05	4.80E-05	43.18324	40.97906	0.1178424	0.0425021	0.0983459	0.05584383
0.038144	0.01621	17.90147	14.1857	0.7548973	0.677368	0.7371596	0.05979152
0.022791	0.00328	24.84487	16.42231	0.6829481	0.5390509	0.6291928	0.09014194
0.026136	0.00086	30.66738	15.82758	0.7889177	0.5860256	0.680893	0.09486742
0.019153	0.01841	17.3488	17.1777	0.6701918	0.7736675	0.6681532	-0.1055143
0.021511	0.00359	24.44319	16.67342	0.8506687	0.6091087	0.744671	0.1355623
0.007698	0.01188	19.25229	21.13631	0.6727035	0.7459937	0.6162651	-0.1297286
0.026821	0.02995	15.23639	15.71526	0.6694526	0.6002173	0.5424569	-0.05776045
0.002751	0.01117	19.51787	25.60443	0.5600784	0.6667143	0.5154387	-0.1512755
0.048205	0.00604	22.19309	13.16904	0.5496064	0.7723314	0.653398	-0.1189334
0.020142	0.02205	16.56623	16.95887	0.6127761	0.4064628	0.2364368	-0.170026
0.001037	0.00051	32.93628	29.84359	0.2670701	0.1539378	0.2686184	0.1146806
0.028872	0.01306	18.83943	15.39525	0.7670053	0.8508536	0.78289	-0.06796358
0.011576	0.00871	20.59834	19.3646	0.8545661	0.9314614	0.8607044	-0.07075696
0.013778	0.0117	19.31994	18.60812	0.9044572	0.8247602	0.7151985	-0.1095617
0.047551	0.04384	13.58089	13.22839	0.2749555	0.3493069	0.2744846	-0.07482223
8.85E-05	6.29E-06	52.01078	40.53143	0.703885	0.8750084	0.7220092	-0.1529992
5.79E-05	2.20E-05	46.58394	42.37022	0.7537044	0.9316459	0.7979541	-0.1336918
0.004566	0.00574	22.41051	23.40492	0.8648166	0.9361358	0.8616495	-0.07448623
0.003787	0.01358	18.67152	24.21716	0.6226526	0.6971832	0.6088014	-0.08838183
0.037841	0.01191	19.24238	14.22041	0.7808835	0.6852906	0.7516756	0.06638501
0.005744	0.00534	22.72616	22.40803	0.8116828	0.6660525	0.5287612	-0.1372913
0.020683	0.00021	36.77246	16.84385	0.756687	0.648225	0.5944966	-0.05372837
0.00166	0.00298	25.25906	27.79851	0.1591221	0.1016421	0.1531081	0.05146597
0.021095	0.00058	32.39233	16.75818	0.2493735	0.1480861	0.2619646	0.1138785
0.000337	7.81E-05	41.07469	34.71886	0.8124037	0.7170872	0.6234416	-0.09364561
0.007154	0.04984	13.02436	21.45455	0.6570741	0.5676776	0.6973925	0.1297149
0.002768	0.00268	25.72562	25.57849	0.6275259	0.7298197	0.6300226	-0.09979703
0.023114	0.0455	13.41964	16.36124	0.7104892	0.780147	0.6972491	-0.08289786
0.029805	0.00015	38.2598	15.25713	0.0620248	0.2351963	0.3488677	0.1136714
0.028963	0.00447	23.50113	15.38163	0.8780527	0.8096468	0.680245	-0.1294018
0.001701	0.00057	32.46437	27.69299	0.8276229	0.5096292	0.7674428	0.2578136
0.007301	0.00025	36.09452	21.3661	0.8143368	0.7202428	0.7709895	0.05074664
0.006252	0.00367	24.35652	22.04005	0.8490018	0.6944699	0.820178	0.1257081
0.00091	0.00258	25.87781	30.40819	0.1753745	0.1210285	0.1816597	0.0606311
0.038166	0.01004	19.98313	14.18323	0.8285707	0.5285144	0.696519	0.1680046
0.025998	0.00956	20.19689	15.85061	0.8524889	0.6728885	0.5390759	-0.1338126
0.004872	0.02179	16.6177	23.12309	0.9006806	0.8080321	0.6839606	-0.1240715
0.002096	0.00203	26.92836	26.78591	0.8215351	0.7143295	0.8212391	0.1069096

0.000647	6.57E-05	41.82545	31.89226	0.8380719	0.7556576	0.8224608	0.06680326
0.007435	0.00426	23.70909	21.28706	0.7824737	0.900434	0.7936495	-0.1067844
0.021457	0.00488	23.11182	16.68424	0.284928	0.1230542	0.2426036	0.1195494
0.028425	0.00135	28.70452	15.46296	0.1766979	0.3521765	0.2519036	-0.1002729
0.022958	0.04317	13.64857	16.39063	0.7595317	0.8585704	0.7413196	-0.1172508
0.04274	0.01995	17.00135	13.69167	0.2430581	0.2935976	0.3805787	0.08698108
0.011397	0.00652	21.85959	19.43192	0.1276755	0.05988	0.1110311	0.05115103
0.036377	0.00039	34.08336	14.39168	0.5858501	0.4006172	0.4695788	0.06896157
0.004263	0.00186	27.31031	23.7024	0.8671948	0.7702291	0.8422036	0.07197443
0.032828	0.03612	14.42275	14.8375	0.846367	0.7902135	0.8502047	0.05999117
0.006703	0.00171	27.66643	21.73742	0.1784852	0.1127341	0.1755068	0.06277264
0.038715	0.00211	26.75096	14.12122	0.806776	0.6254259	0.5321081	-0.09331788
0.014351	0.00088	30.53203	18.43117	0.8874292	0.6478838	0.5314233	-0.1164604
0.006112	0.00475	23.23471	22.13822	0.844137	0.9090216	0.8339565	-0.07506501
0.001938	0.00043	33.70374	27.12583	0.8399593	0.9392427	0.8617294	-0.07751326
0.013817	0.01899	17.21566	18.59572	0.197593	0.3249538	0.4527329	0.1277791
0.025977	0.01161	19.35065	15.85403	0.8717425	0.7788059	0.6966188	-0.08218705
0.014204	0.00062	32.05284	18.47599	0.1933356	0.3229255	0.4281198	0.1051944
0.039992	0.01761	17.54177	13.98028	0.0435356	0.3109811	0.4948854	0.1839043
0.021021	0.04832	13.15889	16.77348	0.1929664	0.2676132	0.3367905	0.06917734
0.012082	0.00602	22.20666	19.17863	0.8750721	0.7304981	0.6243786	-0.1061194
0.00028	1.29E-06	58.8968	35.52341	0.1181905	0.3198972	0.5048348	0.1849377
0.030504	0.04009	13.97017	15.15639	0.9080707	0.835412	0.9164439	0.081032
0.017038	0.00277	25.56993	17.68583	0.8436924	0.7481984	0.6653525	-0.08284594
0.008568	0.038	14.20203	20.67129	0.6815017	0.7318339	0.6572059	-0.07462791
0.000277	0.0037	24.31547	35.57071	0.750705	0.8649099	0.7041692	-0.1607408
0.002247	0.00481	23.18034	26.48372	0.6963418	0.7744717	0.8649263	0.09045456
0.003338	4.42E-05	43.54222	24.76562	0.8818073	0.8031293	0.8593971	0.05626779
0.000101	0.00103	29.88284	39.97727	0.4674239	0.6048407	0.4527259	-0.1521148
0.03793	0.03275	14.84758	14.2102	0.5100662	0.6066511	0.5117573	-0.0948938
0.007625	0.02341	16.30552	21.17763	0.8562685	0.7469628	0.5992595	-0.1477033
0.006247	0.00282	25.49631	22.04315	0.5108134	0.6500011	0.5674663	-0.08253486
0.00753	0.0223	16.51608	21.23203	0.8684533	0.8014119	0.7128112	-0.08860072
0.040249	8.77E-08	70.57129	13.95244	0.8269364	0.2171396	0.1460881	-0.0710515
0.001147	0.00047	33.30643	29.406	0.4764211	0.6405025	0.4640357	-0.1764667
0.01213	0.01682	17.74158	19.16138	0.8555185	0.7360131	0.5872779	-0.1487352
0.020714	0.01272	18.95352	16.83742	0.7823328	0.856868	0.7872395	-0.06962858
0.039375	0.03718	14.29685	14.04781	0.8411121	0.9162441	0.8396682	-0.07657588
6.69E-05	9.25E-06	50.33637	41.74693	0.2244932	0.0601122	0.182216	0.1221038
1.25E-05	2.44E-05	46.12195	49.02515	0.8271889	0.9211683	0.8169422	-0.1042261
0.034771	8.10E-05	40.91668	14.58788	0.87804	0.7868366	0.7031353	-0.08370128
0.024867	0.03048	15.15994	16.04381	0.5885102	0.6416134	0.58626	-0.05535337
0.007883	0.00037	34.34913	21.03324	0.8512375	0.6775419	0.5753996	-0.1021422
0.013225	0.00424	23.72424	18.78606	0.9236875	0.8339871	0.7371389	-0.0968482
0.012353	0.00053	32.7611	19.08227	0.8198192	0.687668	0.7541248	0.06645678
0.036048	0.02326	16.33438	14.43116	0.8809023	0.7952612	0.7056546	-0.08960654
0.011773	0.00403	23.95133	19.29119	0.1999287	0.13768	0.189139	0.05145894
0.026176	0.03194	14.95636	15.82104	0.1853437	0.27551	0.3689991	0.09348912
0.037284	0.04842	13.14974	14.28474	0.7229797	0.8495496	0.7103935	-0.139156
0.023929	0.02341	16.30543	16.2108	0.0580621	0.1219823	0.0606019	-0.06138033
0.042472	0.04267	13.69828	13.71894	0.5641813	0.4539066	0.563067	0.1091604
0.00551	0.01495	18.25314	22.5888	0.3749565	0.3013594	0.3861235	0.08476418
0.029215	0.00012	39.34597	15.34393	0.4742231	0.5901115	0.6522603	0.06214882
0.033695	0.00221	26.54856	14.72434	0.2469741	0.166913	0.2417937	0.07488071



0.021934	0.02207	16.56232	16.58884	0.5011562	0.5567244	0.5000865	-0.05663788
0.03179	0.02021	16.94378	14.97711	0.8305016	0.7640641	0.8206054	0.05654135
0.001901	0.00033	34.82494	27.21078	0.6429948	0.5225489	0.6046238	0.08207498
0.017195	0.00765	21.16141	17.64606	0.8220292	0.6802391	0.5526164	-0.1276227
0.008746	0.0054	22.67607	20.58192	0.2844495	0.1969908	0.266687	0.06969616
0.00534	0.01236	19.07905	22.72421	0.3376033	0.4395686	0.3212547	-0.118314
0.048582	0.02986	15.24969	13.13527	0.9052846	0.7742869	0.882902	0.108615
0.00542	0.01807	17.43116	22.65968	0.6009401	0.7058885	0.5540553	-0.1518332
0.00915	2.06E-05	46.85831	20.38581	0.839292	0.7076747	0.7743823	0.06670757
8.83E-07	1.57E-07	68.04382	60.53828	0.2699569	0.1252053	0.239042	0.1138367
0.022752	0.00041	33.84266	16.42977	0.556736	0.7510423	0.8085315	0.05748925
0.020947	0.00557	22.54166	16.78882	0.7168047	0.8179414	0.7478577	-0.07008368
0.001462	0.00153	28.16253	28.34908	0.3464425	0.5248798	0.6207503	0.09587056
0.00369	0.00042	33.73563	24.33008	0.8134209	0.8791727	0.8043904	-0.0747823
0.036223	0.01509	18.21196	14.41013	0.9057842	0.7766696	0.8684004	0.09173087
9.32E-05	0.00014	38.39869	40.30708	0.8208975	0.7563806	0.8241295	0.06774887
0.030407	0.00069	31.59876	15.17028	0.8523801	0.3998916	0.5580354	0.1581438
0.016046	0.00022	36.58864	17.94625	0.05981	0.1690605	0.2623972	0.09333674
0.003347	0.00716	21.44886	24.75323	0.7798793	0.7073135	0.7648508	0.05753728
0.022041	2.08E-05	46.80905	16.56773	0.819453	0.5205379	0.6280971	0.1075593
2.74E-05	0.00013	38.7501	45.62904	0.1606027	0.0942176	0.1803242	0.08610663
0.020739	0.0102	19.91506	16.83221	0.2182356	0.3309098	0.4408416	0.1099318
0.029809	0.00369	24.32396	15.25654	0.156354	0.2827183	0.2112736	-0.07144468
0.000753	0.00024	36.15406	31.23312	0.7425336	0.8010741	0.7034886	-0.09758551
0.016886	0.00307	25.12959	17.72469	0.7538111	0.6625767	0.7312483	0.06867161
0.011896	6.32E-05	41.9894	19.24597	0.851321	0.7917033	0.7051369	-0.08656643
1.78E-05	0.00051	32.96541	47.48738	0.8589408	0.9141161	0.8266547	-0.08746146
0.007538	0.00093	30.31783	21.22727	0.8545029	0.724053	0.6421883	-0.08186464
5.31E-06	2.52E-05	45.98778	52.74591	0.6713319	0.8193498	0.6536885	-0.1656613
0.000573	2.24E-05	46.49504	32.41904	0.7414272	0.8357034	0.7541074	-0.08159605
0.002835	0.00515	22.88558	25.47487	0.7269616	0.6271884	0.516274	-0.1109145
0.03641	0.02404	16.18994	14.38784	0.0972002	0.183146	0.1074451	-0.07570094
0.031657	4.44E-05	43.52341	14.99535	0.8428291	0.6733854	0.7267854	0.0534
0.007438	0.00192	27.17588	21.28565	0.6113857	0.7628993	0.6568212	-0.106078
0.044601	0.04346	13.61925	13.50657	0.0933847	0.2677511	0.0977711	-0.16998
0.032011	0.00248	26.04843	14.94702	0.8538141	0.6585124	0.746933	0.0884206
0.013646	0.00759	21.1984	18.64989	0.2876152	0.2013401	0.2649599	0.06361979
0.046557	0.01082	19.65809	13.32015	0.7870832	0.6510745	0.7382022	0.08712763
0.039511	0.00018	37.43374	14.03281	0.8394927	0.551004	0.4564264	-0.09457756
0.001722	8.94E-05	40.48521	27.6405	0.7081177	0.8007777	0.7102695	-0.09050827
0.013209	0.02641	15.78173	18.79135	0.6182793	0.6818004	0.6064438	-0.0753566
0.025763	0.001	30.00856	15.88999	0.5378346	0.4808269	0.5397936	0.05896662
0.008633	0.03794	14.20879	20.63824	0.8196847	0.8893946	0.7873818	-0.1020128
0.00848	0.00029	35.43663	20.71619	0.120989	0.2875819	0.1904628	-0.09711912
0.015566	8.43E-06	50.74178	18.07821	0.129024	0.3863423	0.4604641	0.07412183
0.001306	0.00123	29.11621	28.84162	0.7080228	0.8596685	0.7084404	-0.151228
0.036591	0.00436	23.60889	14.36627	0.7370988	0.4583665	0.6083693	0.1500028
0.018135	0.00352	24.53839	17.41473	0.8550686	0.7794111	0.8362493	0.05683815
0.010871	0.03449	14.62306	19.63712	0.7552367	0.8513028	0.7207643	-0.1305385
0.012119	0.01379	18.60579	19.16526	0.5750651	0.6614788	0.5836103	-0.07786851
0.047419	0.01673	17.76476	13.24045	0.6896639	0.5579782	0.6574438	0.09946565
0.003643	0.00252	25.98567	24.38548	0.8487939	0.792927	0.8455634	0.05263638
0.040845	0.03612	14.42283	13.88861	0.8897508	0.7897713	0.8890442	0.0992729
0.04025	0.01435	18.43033	13.9523	0.0740724	0.194087	0.109376	-0.0847111

0.002961	0.00089	30.50354	25.28546	0.7530384	0.8040027	0.7539723	-0.05003042
0.018988	0.01525	18.1669	17.21516	0.7718801	0.6125013	0.7603891	0.1478878
0.000682	9.99E-05	40.0056	31.66069	0.117787	0.0352063	0.1054146	0.07020831
0.000857	0.00725	21.39509	30.66836	0.827209	0.8847988	0.7482862	-0.1365126
0.005735	0.00045	33.4207	22.41454	0.1555357	0.054134	0.1144327	0.06029869
0.045737	0.0014	28.53637	13.39728	0.5496471	0.399016	0.3439095	-0.05510648
0.021704	0.0109	19.62572	16.63457	0.9168705	0.8556396	0.9059868	0.05034718
0.014477	0.01042	19.82007	18.39327	0.6109148	0.6906293	0.5916341	-0.09899526
0.023664	0.04078	13.89567	16.2591	0.8908516	0.7809274	0.6413533	-0.139574
0.03328	0.00011	39.4281	14.77821	0.5783203	0.3981281	0.4501283	0.05200022
0.026549	0.00069	31.61399	15.75958	0.8880669	0.7208434	0.7825419	0.06169846
0.027734	0.003	25.22268	15.56986	0.8582289	0.5041708	0.3449251	-0.1592457
0.035118	0.04269	13.69629	14.54469	0.705309	0.6475117	0.7082325	0.0607208
0.010488	0.00143	28.45723	19.79297	0.8204976	0.694884	0.6172993	-0.07758468
0.030365	0.01092	19.61716	15.17632	0.804306	0.6948299	0.7750113	0.0801814
0.001089	0.00214	26.68773	29.63057	0.6828709	0.8471011	0.6731821	-0.173919
0.002529	0.00018	37.37387	25.96966	0.172924	0.0830021	0.1453422	0.06234004
0.040937	0.01089	19.62785	13.87882	0.9154843	0.8173395	0.7558392	-0.06150025
0.036913	0.02387	16.22215	14.32823	0.2879931	0.2133431	0.2757776	0.06243446
0.049545	0.03504	14.55447	13.04998	0.8914732	0.8126024	0.8806474	0.06804499
0.002113	0.00032	34.95583	26.75192	0.9151761	0.679795	0.8157114	0.1359164
0.011552	0.00038	34.22026	19.3735	0.0666762	0.2520904	0.3600546	0.1079643
7.62E-06	2.20E-05	46.57608	51.18125	0.0904345	0.0353823	0.0971743	0.06179203
0.004892	0.00855	20.67886	23.10513	0.2092165	0.3870445	0.4587187	0.07167417
0.000441	0.00132	28.80165	33.55335	0.7204189	0.7995324	0.7023129	-0.09721946
0.026395	0.01303	18.85198	15.78473	0.8183054	0.7172982	0.7976583	0.08036014
0.045714	0.0004	33.96902	13.3995	0.8075098	0.6596873	0.709847	0.05015972
0.035047	0.01962	17.07321	14.55345	0.9194347	0.8590521	0.9108791	0.05182708
0.034919	0.01559	18.07234	14.56943	0.9102184	0.7609934	0.8797703	0.1187769
0.000339	0.00247	26.06533	34.69833	0.4694358	0.650632	0.4428343	-0.2077977
0.040921	0.04161	13.80854	13.88058	0.2702981	0.3643152	0.4572889	0.09297369
0.046061	0.01908	17.19401	13.36669	0.7967504	0.5977101	0.7420083	0.1442982
0.005653	0.00551	22.59164	22.47684	0.6232702	0.7642339	0.6181777	-0.1460563
0.027337	0.00631	22.00036	15.63253	0.8649283	0.5447172	0.3651283	-0.1795889
0.009624	0.01377	18.60958	20.16654	0.4321069	0.5922136	0.6775937	0.08538016
0.015482	0.02099	16.78014	18.10166	0.5369138	0.6274379	0.5320052	-0.09543269
0.003087	0.02215	16.54661	25.10476	0.7828556	0.8526344	0.7482064	-0.104428
0.014346	0.00023	36.2919	18.43271	0.827592	0.7020209	0.6234316	-0.07858931
0.031392	0.00406	23.91586	15.03188	0.9342232	0.8054164	0.8725538	0.06713738
0.005259	0.00648	21.88561	22.79114	0.8277588	0.8944093	0.8319935	-0.06241581
0.022301	0.0006	32.19556	16.5167	0.8556979	0.6067681	0.7280734	0.1213053
0.00787	3.67E-06	54.35645	21.04052	0.7745941	0.5404397	0.6256678	0.08522817
0.006081	0.01357	18.67576	22.16022	0.3614087	0.302405	0.364859	0.06245397
0.000537	0.00019	37.2775	32.70118	0.1432881	0.0480609	0.1309266	0.08286573
0.014253	0.00011	39.55735	18.46098	0.1472877	0.5261938	0.6418322	0.1156383
8.89E-06	2.72E-06	55.6611	50.50996	0.147822	0.0687107	0.1454121	0.07670143
0.003941	0.0009	30.45676	24.04385	0.7763711	0.704585	0.766762	0.062177
0.010562	0.03081	15.11257	19.76247	0.9372438	0.8369688	0.7004966	-0.1364722
0.034806	0.00048	33.14415	14.58347	0.8032833	0.6973795	0.6399488	-0.05743067
0.043009	0.01665	17.78509	13.6644	0.8665286	0.7958318	0.8489613	0.05312951
0.013028	0.00034	34.63626	18.85127	0.861637	0.7457913	0.8160101	0.07021885
0.00368	0.00661	21.79573	24.34119	0.8878863	0.815091	0.8782707	0.06317969
0.017429	0.00019	37.24411	17.58734	0.723769	0.9446598	0.8818468	-0.06281296
0.00594	0.00479	23.19304	22.26235	0.2860102	0.1930814	0.2771746	0.08409318

1.59E-05	0.00014	38.59479	47.99128	0.2238847	0.1206265	0.1855878	0.06496124
0.007494	0.01864	17.29447	21.25263	0.8249855	0.8971505	0.8111724	-0.08597811
0.001071	0.00122	29.13431	29.70335	0.7691451	0.9094048	0.7853803	-0.1240245
0.019834	0.01609	17.93411	17.02589	0.8870829	0.8262248	0.8850912	0.05886641
0.000977	0.00048	33.1957	30.10007	0.4606297	0.5425761	0.4646178	-0.07795833
0.001074	0.00303	25.17921	29.68922	0.5762418	0.6262643	0.5664005	-0.05986381
0.003227	0.00325	24.87848	24.91257	0.606079	0.7931669	0.6173064	-0.1758605
0.001139	0.00026	35.86896	29.43366	0.174932	0.1225211	0.1790748	0.05655378
0.001141	6.73E-07	61.71955	29.42592	0.7901328	0.848246	0.7910115	-0.05723443
0.003298	2.60E-05	45.85772	24.8175	0.8912764	0.7891828	0.8408996	0.05171684
0.028157	0.00385	24.14386	15.50421	0.0848952	0.1743169	0.1170816	-0.05723531
0.009187	0.00503	22.98592	20.36831	0.6882589	0.8010203	0.7087877	-0.09223256
0.049145	0.0032	24.94478	13.08518	0.3461007	0.6355147	0.7808678	0.1453531
0.025349	0.02045	16.89403	15.96032	0.7723789	0.6449912	0.7514085	0.1064173
0.000997	2.59E-05	45.8652	30.01428	0.2215976	0.1292488	0.1863076	0.05705876
0.008591	0.00011	39.53377	20.65932	0.8249807	0.6734619	0.59166	-0.08180193
0.024362	0.03548	14.50049	16.1329	0.9074246	0.8530898	0.9157718	0.06268204
0.013518	0.01166	19.33364	18.69073	0.8371882	0.7736335	0.7056576	-0.06797591
0.048368	0.00095	30.20802	13.15439	0.882397	0.7472499	0.6446578	-0.1025921
0.010612	0.00199	27.01153	19.7422	0.4248004	0.5112438	0.4609196	-0.05032425
0.001072	0.00447	23.49695	29.69841	0.8768576	0.9330855	0.8592497	-0.07383586
0.00566	0.00134	28.73423	22.47149	0.1313494	0.2865268	0.3787307	0.09220383
0.005986	0.00335	24.74657	22.22876	0.2458913	0.1824082	0.2376519	0.05524377
0.026684	3.00E-06	55.23587	15.7375	0.8848768	0.7777138	0.82778	0.05006617
0.000507	0.00117	29.31027	32.95145	0.793498	0.8662949	0.772356	-0.0939389
0.034489	1.81E-06	57.41217	14.62324	0.1869469	0.6370393	0.571088	-0.06595132
0.034535	0.0308	15.11408	14.61746	0.8972846	0.8240612	0.8907329	0.06667177
0.034645	0.04764	13.22018	14.60359	0.9232191	0.797484	0.6672912	-0.1301928
0.00373	0.00569	22.45047	24.28316	0.2171945	0.1317006	0.2233046	0.09160399
0.038933	0.00405	23.92457	14.09681	0.034177	0.2519175	0.3560742	0.1041567
0.008326	0.00407	23.90592	20.79583	0.1470073	0.0520128	0.1284228	0.07641
0.000175	0.00047	33.27883	37.57069	0.0748119	0.1653173	0.0829055	-0.08241174
0.006557	0.00085	30.68446	21.83296	0.5721194	0.6496041	0.5733494	-0.07625471
0.012305	3.33E-07	64.78136	19.09936	0.068564	0.1571776	0.2177588	0.06058128
0.03391	4.57E-05	43.40039	14.69668	0.740074	0.5054212	0.6113932	0.1059719
0.008152	0.00663	21.78695	20.88743	0.688183	0.8349668	0.6950242	-0.1399426
0.041876	0.03439	14.63533	13.78034	0.8781742	0.6956127	0.8599551	0.1643423
0.001367	0.00066	31.82792	28.64269	0.8071606	0.7473486	0.8113985	0.0640499
0.005995	0.00013	38.83991	22.22234	0.6742265	0.4978386	0.5937203	0.09588169
0.015796	0.00331	24.80544	18.01451	0.0579525	0.1547053	0.2678214	0.1131161
0.027648	0.00295	25.30187	15.58332	0.0550862	0.3556347	0.5142758	0.1586411
0.039671	0.01941	17.12045	14.01522	0.1628281	0.2344519	0.3179707	0.08351884
0.001842	0.00098	30.09991	27.34819	0.6509228	0.7681456	0.6713712	-0.09677432
0.018032	0.0179	17.47234	17.43944	0.6112798	0.7431635	0.616928	-0.1262355
0.016796	0.01309	18.82983	17.74792	0.7091419	0.8304646	0.7291746	-0.10129
0.009269	0.00587	22.31349	20.32983	0.0832425	0.2086838	0.0961479	-0.1125359
0.022087	0.0171	17.67048	16.55858	0.6722215	0.7302326	0.6742961	-0.05593646
0.036904	0.03289	14.82926	14.32926	0.3628019	0.2781648	0.3573918	0.07922703
0.030254	0.01317	18.80261	15.19215	0.3139911	0.2321688	0.2927183	0.06054948
2.07E-05	6.54E-05	41.84552	46.83884	0.5718501	0.6484857	0.5542716	-0.09421401
0.004314	3.90E-06	54.08637	23.65093	0.5690293	0.790101	0.845881	0.05577998
0.046677	0.0193	17.14517	13.30897	0.0571107	0.1473273	0.2341678	0.08684058
0.033063	0.005	23.0115	14.8066	0.7700123	0.6369952	0.5306841	-0.1063111
0.047029	0.00307	25.12765	13.27631	0.1544549	0.098719	0.1535038	0.05478482

0.031586	0.02486	16.04419	15.00505	0.2033238	0.1352222	0.1999664	0.06474422
0.006381	0.00182	27.39036	21.95098	0.050834	0.2682436	0.3874473	0.1192037
0.040951	3.23E-05	44.90495	13.87735	0.2688712	0.5921108	0.5004801	-0.09163069
0.048625	0.00222	26.54432	13.13141	0.7657861	0.6089814	0.6844901	0.07550871
0.003273	8.09E-07	60.91959	24.85017	0.2395941	0.7606073	0.6697341	-0.09087323
0.002908	0.00507	22.95077	25.36465	0.0979804	0.0437583	0.0975043	0.05374597
0.036574	0.00454	23.42889	14.36823	0.8711393	0.7540802	0.8102394	0.05615927
0.021428	0.04445	13.5208	16.69011	0.8686739	0.7940964	0.6970536	-0.09704284
0.049941	0.00922	20.352	13.01541	0.0900576	0.1446128	0.2149878	0.07037499
0.009013	0.00322	24.92098	20.45144	0.8575166	0.9389427	0.8825976	-0.0563451
0.001068	9.39E-05	40.27409	29.71248	0.8470986	0.7406327	0.8083376	0.06770485
0.016516	0.00471	23.26639	17.82093	0.1455733	0.3728169	0.5282951	0.1554782
0.021639	0.01112	19.54006	16.64759	0.4930462	0.5632847	0.5021223	-0.0611624
0.001669	0.00036	34.49644	27.77452	0.4078715	0.2997827	0.3904403	0.09065767
0.001297	0.00265	25.76107	28.86928	0.8843695	0.9482145	0.8914993	-0.05671518
0.001586	1.26E-05	48.99226	27.99781	0.6111435	0.6996357	0.6457584	-0.05387728
0.037829	0.00516	22.87063	14.22177	0.5732303	0.7129202	0.793876	0.08095569
0.04995	0.0036	24.44251	13.01466	0.5617478	0.7327859	0.6644063	-0.06837961
0.022896	0.00826	20.82939	16.40248	0.9474872	0.7649246	0.8923514	0.1274269
0.014197	6.91E-05	41.60818	18.47792	0.1292148	0.4745704	0.5922376	0.1176672
0.009907	0.01163	19.34566	20.04046	0.7946003	0.9039894	0.7823342	-0.1216552
0.016917	0.00114	29.44664	17.71682	0.5769397	0.4868031	0.5406756	0.05387257
0.000136	0.00107	29.69753	38.65424	0.5582393	0.744422	0.5461289	-0.1982931
0.041803	0.02659	15.75324	13.78789	0.2652623	0.1783656	0.2550084	0.0766428
0.038366	0.02837	15.4709	14.16057	0.7556536	0.8638923	0.7679834	-0.09590895
0.021599	0.01207	19.18451	16.65563	0.8086873	0.6784765	0.5680575	-0.110419
0.032752	0.0104	19.82848	14.8476	0.8798105	0.7717661	0.8443447	0.07257861
0.003047	0.00237	26.25663	25.16158	0.135878	0.4930708	0.7361745	0.2431037
0.027004	0.03412	14.67011	15.68575	0.0334762	0.084587	0.0306048	-0.05398218
0.025597	0.00185	27.32602	15.91809	0.8983358	0.7986013	0.7475091	-0.05109221
0.001857	0.00335	24.75544	27.31216	0.6892898	0.863741	0.7091418	-0.1545992
0.01012	0.00423	23.73684	19.94825	0.1560243	0.093458	0.1458187	0.05236069
0.004462	0.02384	16.2275	23.50424	0.7012083	0.7587808	0.6724198	-0.08636098
0.007878	0.00095	30.23304	21.03574	0.8352948	0.5976812	0.7326367	0.1349555
0.024771	0.02412	16.17629	16.06057	0.5104472	0.4199879	0.5079864	0.08799851
0.000295	0.00122	29.13306	35.29483	0.2688546	0.2074742	0.2744408	0.06696655
0.004645	0.00156	28.07508	23.33058	0.2661993	0.1724333	0.2571658	0.08473247
0.012221	0.00039	34.06762	19.12903	0.2081366	0.063732	0.1788626	0.1151306
0.017181	0.01376	18.61481	17.64948	0.8371687	0.9108817	0.8455129	-0.06536873
0.035022	0.03697	14.3212	14.55656	0.3269903	0.2426624	0.3256559	0.08299342
0.048956	0.04329	13.63565	13.10194	0.9312122	0.7993546	0.6677613	-0.1315933
0.002927	0.00134	28.72557	25.33618	0.782581	0.8739887	0.7907112	-0.08327745
0.029427	0.02322	16.34115	15.3125	0.8920125	0.7957865	0.6753725	-0.120414
1.81E-05	0.00013	38.74692	47.42821	0.1861064	0.0931002	0.172891	0.07979076
0.042891	0.01511	18.20802	13.67633	0.8827399	0.7668539	0.8526946	0.08584073
0.041233	0.01177	19.2925	13.84758	0.870703	0.791235	0.8441732	0.0529382
0.013548	0.01884	17.24832	18.68117	0.843387	0.7887561	0.8473856	0.05862958
0.003961	0.04462	13.50438	24.02195	0.5847943	0.5207791	0.6379939	0.1172148
4.15E-06	2.33E-05	46.32049	53.81529	0.406771	0.4976833	0.406341	-0.09134236
0.050049	3.35E-05	44.7448	13.00605	0.1403409	0.6040465	0.4965812	-0.1074652
0.003348	0.0265	15.76725	24.7525	0.6331105	0.6871182	0.5985066	-0.08861161
0.010987	0.00592	22.27805	19.59111	0.825273	0.75661	0.8170963	0.06048622
0.029838	0.01629	17.88117	15.25224	0.1601343	0.093952	0.1465255	0.0525735
0.010022	0.00542	22.65677	19.99046	0.6207044	0.4816726	0.5792018	0.09752918

0.012664	0.02025	16.93473	18.9743	0.7496585	0.8458264	0.7399998	-0.1058266
0.000121	3.56E-05	44.48545	39.16151	0.5385902	0.7015979	0.5595187	-0.1420792
0.026736	0.04516	13.45263	15.72904	0.7640576	0.636493	0.5061885	-0.1303046
0.000679	1.97E-07	67.05153	31.6803	0.6442002	0.9476592	0.85641	-0.09124922
0.046168	0.01353	18.68726	13.35656	0.9124317	0.82177	0.8821354	0.06036547
0.016136	0.00821	20.8543	17.92216	0.8766352	0.7737545	0.8670293	0.09327485
0.047342	0.0004	34.01137	13.24752	0.6862702	0.4081464	0.5137674	0.1056209
0.00193	0.00058	32.33362	27.1449	0.9202646	0.8424746	0.9049299	0.06245529
0.017222	0.0041	23.86738	17.63926	0.703034	0.8507378	0.7634814	-0.08725637
0.014319	0.00467	23.30956	18.44081	0.6395869	0.7168717	0.6616244	-0.05524728
0.000249	0.00013	38.69677	36.03178	0.3278143	0.1799742	0.3148062	0.134832
0.021397	0.00325	24.87626	16.69649	0.8315899	0.728738	0.795395	0.06665711
0.032808	0.00038	34.20649	14.84026	0.8714074	0.7387882	0.790669	0.05188072
0.000233	0.00011	39.52026	36.33266	0.2349478	0.1016195	0.2166962	0.1150767
0.015028	0.00041	33.91097	18.23108	0.8173066	0.63817	0.7235867	0.08541669
0.043593	0.03191	14.96069	13.60586	0.5110101	0.4172824	0.4964325	0.07915012
0.038129	0.0005	32.98545	14.18745	0.2140565	0.6528563	0.8210441	0.1681878
0.008038	0.01355	18.68002	20.94861	0.8566873	0.7147193	0.881819	0.1670997
8.86E-06	7.29E-07	61.37453	50.52573	0.5942766	0.7573715	0.6113778	-0.1459937
0.025789	0.0007	31.55037	15.88564	0.8826312	0.7067292	0.6044557	-0.1022735
0.02088	1.12E-05	49.49853	16.80263	0.1815995	0.0916203	0.1918456	0.1002252
0.003482	0.05	13.01031	24.58139	0.7814881	0.7101254	0.5426829	-0.1674425
0.044494	8.47E-08	70.71934	13.517	0.3595458	0.8493657	0.7973717	-0.05199395
0.003684	0.017	17.6945	24.33663	0.7790465	0.8733803	0.7425248	-0.1308555
0.009595	0.00455	23.41845	20.17975	0.9004292	0.735061	0.5888118	-0.1462492
0.035762	0.00408	23.89482	14.46581	0.6284127	0.5481448	0.6020582	0.05391348
0.001561	0.00651	21.86697	28.06659	0.8883749	0.9479926	0.8789963	-0.06899625
0.001383	7.98E-05	40.98165	28.5912	0.6594804	0.8460106	0.7451487	-0.1008618
0.039714	0.01495	18.25461	14.01055	0.863143	0.7363107	0.8268004	0.09048963
0.044696	0.0042	23.76948	13.49733	0.1147904	0.4020037	0.5434849	0.1414811
0.002464	0.00593	22.26717	26.08323	0.5673364	0.4428795	0.5866905	0.143811
0.005168	0.00458	23.39275	22.86691	0.7908138	0.8640261	0.8074227	-0.05660339
0.001178	0.00027	35.66499	29.28979	0.8091806	0.9144208	0.7745683	-0.1398525
0.033346	0.00676	21.69843	14.76955	0.9276196	0.811524	0.7427787	-0.06874529
0.020419	0.01405	18.52312	16.89968	0.0811284	0.2639962	0.4190718	0.1550756
0.03832	0.00705	21.51592	14.16577	0.8390487	0.7349232	0.6346518	-0.1002714
0.014403	0.01754	17.5587	18.41551	0.5836502	0.6645281	0.5891952	-0.07533291
0.000234	0.00023	36.42752	36.3014	0.2247759	0.1443864	0.2337989	0.08941258
0.007758	0.0154	18.12374	21.10228	0.5377362	0.639827	0.5283518	-0.1114752
0.00219	0.00032	34.89848	26.5964	0.1671786	0.048548	0.1296546	0.08110666
0.037756	0.0231	16.36397	14.23015	0.8944926	0.7535345	0.6162884	-0.1372461
0.003392	0.0002	37.02275	24.69486	0.7928152	0.6661079	0.5567371	-0.1093708
0.000605	0.0001	39.97763	32.18334	0.5577101	0.6713412	0.6080203	-0.06332096
0.00982	5.94E-05	42.26151	20.07879	0.0794189	0.5119112	0.648822	0.1369108
0.034564	0.01306	18.83911	14.61379	0.8033554	0.7146013	0.622042	-0.09255928
0.044165	0.01754	17.55954	13.54921	0.8161326	0.7110057	0.7853597	0.07435399
0.033326	0.01559	18.07288	14.7722	0.2977593	0.1506957	0.2677034	0.1170077
0.046759	0.0254	15.95166	13.30138	0.9164259	0.8443043	0.9025568	0.0582526
0.001676	0.00058	32.38258	27.75753	0.5903164	0.674513	0.5917534	-0.0827596
0.001415	0.00097	30.12627	28.49391	0.2496701	0.0992985	0.2306249	0.1313264
0.039045	0.01118	19.51514	14.08438	0.8455912	0.7360723	0.8080589	0.07198656
0.036351	0.00968	20.14313	14.3948	0.5342146	0.432224	0.4976446	0.0654206
0.040815	0.00963	20.16427	13.89184	0.7403729	0.8139241	0.7634441	-0.05047995
0.047096	0.00378	24.22485	13.27016	0.2070144	0.334566	0.4382807	0.1037147

0.001965	0.01787	17.47813	27.06637	0.7608771	0.6948513	0.5841575	-0.1106938
0.015031	3.22E-08	74.91483	18.23017	0.7687625	0.457393	0.3633789	-0.094014
0.014173	0.00438	23.59007	18.48543	0.9140353	0.8285131	0.8936057	0.06509253
0.000437	0.00018	37.48477	33.59654	0.8991703	0.7832971	0.8936865	0.1103894
0.008036	0.00234	26.31541	20.94951	0.8371545	0.7433621	0.8173333	0.07397126
0.001775	0.00985	20.06438	27.50853	0.5696765	0.7140049	0.5062269	-0.207778
3.42E-06	6.90E-05	41.6102	54.66314	0.5447825	0.6157144	0.5063851	-0.1093294
0.005944	0.00166	27.79348	22.25943	0.8416525	0.7520078	0.8139968	0.06198902
0.040478	0.00546	22.62971	13.92786	0.8916506	0.7768003	0.8361179	0.05931759
0.005977	0.01042	19.82254	22.23506	0.2754093	0.1654626	0.2818246	0.116362
0.023359	0.00215	26.67424	16.31544	0.2619523	0.4181454	0.5172142	0.09906885
0.002082	0.00019	37.27781	26.81459	0.746234	0.8546446	0.760877	-0.09376764
0.009553	0.0004	33.97825	20.19853	0.1976827	0.0904343	0.1924825	0.1020482
0.004591	0.01579	18.01509	23.38102	0.8272006	0.8853031	0.7760441	-0.1092589
0.002272	0.00409	23.88255	26.43596	0.8492738	0.7167911	0.5937277	-0.1230634
0.02673	0.00129	28.89898	15.72998	0.7856631	0.6435495	0.7155682	0.07201876
2.84E-05	0.00017	37.61327	45.46046	0.1405095	0.0509877	0.1286014	0.0776138
0.042755	0.0068	21.67333	13.69014	0.4090003	0.2772573	0.3435202	0.06626288
0.032155	0.0086	20.65261	14.92753	0.9247333	0.8314877	0.8857641	0.05427639
0.017462	0.0136	18.66333	17.57894	0.4608575	0.5636177	0.4681548	-0.09546296
0.001985	0.00767	21.15395	27.02201	0.7757592	0.8474452	0.7615952	-0.08584996
0.016553	0.02889	15.39239	17.81128	0.7899424	0.8477463	0.7799706	-0.06777569
0.047068	0.00019	37.23561	13.27271	0.7297129	0.4777084	0.3603319	-0.1173766
0.043607	0.00067	31.72397	13.60446	0.0755476	0.3191154	0.3897752	0.0706598
0.037214	0.01525	18.1672	14.29296	0.8769091	0.7765113	0.8536145	0.07710331
0.01011	0.00634	21.97886	19.95232	0.2909569	0.5331986	0.7114149	0.1782164
0.039971	0.00286	25.42912	13.98253	0.0621759	0.1194324	0.1802417	0.06080934
0.014791	0.01027	19.88322	18.30016	0.6550967	0.7398394	0.6656304	-0.07420898
0.036871	0.04662	13.31436	14.3332	0.5818096	0.683239	0.5758678	-0.1073713
0.036933	0.00939	20.27124	14.3259	0.5896984	0.6854955	0.6178856	-0.06760996
8.78E-05	1.20E-05	49.21105	40.56511	0.1865499	0.1159206	0.171646	0.05572542
0.015579	5.01E-05	43.00268	18.07461	0.8170673	0.6840277	0.7382417	0.05421404
0.008954	0.02193	16.59	20.47961	0.8826751	0.8173245	0.8961057	0.0787812
0.002789	0.00201	26.97109	25.54504	0.3423631	0.2184528	0.3267759	0.1083231
0.022293	0.00654	21.84433	16.51833	0.648012	0.716002	0.6589014	-0.05710066
0.002624	0.00225	26.47577	25.81073	0.128198	0.0362686	0.1176079	0.08133939
0.037268	0.04745	13.23733	14.28669	0.6014544	0.7484292	0.5902305	-0.1581986
0.029303	0.04371	13.59435	15.33085	0.9217219	0.8330166	0.7252921	-0.1077245
0.005328	0.00082	30.86705	22.73396	0.8535483	0.7474293	0.8012463	0.05381707
0.033038	0.04356	13.60926	14.80984	0.4595992	0.3976687	0.3294857	-0.06818309
0.01794	0.00382	24.18448	17.4617	0.9028344	0.8266644	0.8857785	0.05911411
0.008129	0.01796	17.45675	20.8994	0.4824404	0.5639096	0.4671153	-0.09679432
0.02798	0.01387	18.57823	15.5316	0.0929275	0.1905628	0.3265186	0.1359558
0.047351	0.01031	19.86899	13.24675	0.5488001	0.7321748	0.6120908	-0.1200839
0.013378	0.00489	23.10767	18.73606	0.5397044	0.4280479	0.5251678	0.09711985
0.001303	0.00354	24.51115	28.85158	0.6642617	0.7770274	0.637039	-0.1399884
0.000652	0.00058	32.34695	31.85626	0.033512	0.1165767	0.0497442	-0.0668325
0.00132	0.00026	35.92625	28.79365	0.854234	0.7857661	0.8423488	0.05658271
0.013745	0.00715	21.4586	18.61841	0.7962325	0.9024172	0.8122097	-0.09020749
0.008531	0.02193	16.59004	20.69018	0.6212908	0.6792094	0.6076199	-0.07158952
0.002629	0.00038	34.21365	25.80287	0.1571955	0.0731268	0.151824	0.07869715
0.002312	0.00429	23.67976	26.36026	0.8153751	0.7452374	0.8148008	0.06956346
0.000366	0.00064	31.94587	34.36857	0.4478913	0.5560409	0.3990524	-0.1569885
0.037167	0.02659	15.75328	14.29838	0.7658101	0.6278278	0.5062618	-0.1215661

0.007422	0.0082	20.86283	21.29465	0.8838463	0.9374553	0.879463	-0.05799237
0.011205	0.02791	15.54262	19.50572	0.2857731	0.1970851	0.300378	0.1032929
0.023215	0.03013	15.21054	16.34228	0.0466403	0.122011	0.2380737	0.1160627
0.003425	0.00032	34.91101	24.653	0.8828336	0.6431999	0.7697011	0.1265012
0.000456	7.56E-05	41.21694	33.40585	0.6804365	0.7549857	0.6648269	-0.09015884
8.91E-05	2.75E-06	55.60735	40.50097	0.1438089	0.0540676	0.1188847	0.06481703
0.028518	0.01375	18.61585	15.44876	0.160048	0.0944067	0.1517909	0.05738411
0.000204	0.00086	30.66052	36.90015	0.8063881	0.858241	0.7831917	-0.07504924
0.001219	0.001	30.00995	29.14003	0.0956859	0.0420312	0.0974932	0.05546196
0.033785	0.00025	36.03505	14.71278	0.7824449	0.4725509	0.5785978	0.1060468
0.035822	0.04665	13.3112	14.45845	0.8885854	0.7487039	0.59023	-0.1584739
0.005671	0.00481	23.18072	22.46316	0.4391342	0.6771988	0.4233688	-0.25383
0.001638	0.0003	35.24722	27.85644	0.8979479	0.797471	0.876424	0.07895296
0.002215	0.001	30.01335	26.54666	0.7509027	0.8300623	0.760712	-0.0693503
0.050058	0.04238	13.72827	13.00529	0.8007305	0.857852	0.803093	-0.05475903
0.004062	5.21E-05	42.8278	23.91245	0.8289527	0.6320654	0.5354971	-0.0965682
0.023798	0.00566	22.47214	16.23453	0.7999775	0.6710814	0.5614471	-0.1096343
0.039593	0.00823	20.84463	14.02379	0.7442089	0.6343902	0.6976253	0.06323511
0.003414	0.00409	23.88285	24.66798	0.7189208	0.8214351	0.7019568	-0.1194782
0.002225	0.00017	37.81872	26.52636	0.1133395	0.0463305	0.0996799	0.0533494
0.036174	0.01034	19.85614	14.41599	0.621223	0.5081946	0.4424993	-0.0656954
0.026687	0.00038	34.25088	15.73696	0.7045107	0.4149428	0.50843	0.09348721
0.03719	0.00239	26.20729	14.29579	0.7810571	0.6060955	0.6967718	0.0906763
0.00263	0.00019	37.14311	25.80098	0.1950814	0.1162158	0.1785837	0.06236797
0.008978	8.32E-05	40.79694	20.46826	0.8479075	0.7282799	0.6134772	-0.1148027
0.000272	0.00011	39.77846	35.6554	0.107951	0.0419238	0.0992712	0.0573474
0.001744	0.03203	14.94508	27.58578	0.6201987	0.6786441	0.5447094	-0.1339348
0.02429	0.0178	17.49588	16.14573	0.8577388	0.6185447	0.8190941	0.2005493
0.046539	0.00037	34.29854	13.32185	0.2580051	0.6786529	0.8040186	0.1253657
0.001375	0.00476	23.22844	28.61773	0.4475364	0.5290361	0.4340558	-0.09498027
0.001287	0.00071	31.45997	28.90562	0.1362758	0.0481907	0.1184698	0.07027919
0.016244	0.01578	18.01777	17.89297	0.7276038	0.8379045	0.7385072	-0.09939726
0.037243	2.37E-06	56.24889	14.28961	0.5429211	0.9304559	0.8575684	-0.07288752
0.008171	0.00643	21.91593	20.87719	0.6602673	0.7555571	0.6681924	-0.08736464
0.039683	0.00114	29.44243	14.01391	0.2694265	0.4426936	0.3643225	-0.07837107
0.003732	0.00244	26.1235	24.28097	0.7108838	0.7876281	0.7168766	-0.07075144
0.041869	0.02271	16.43821	13.78109	0.8922012	0.7985127	0.8714572	0.07294449
0.00649	0.00802	20.95697	21.87737	0.6905273	0.8049216	0.7061473	-0.0987744
0.001822	0.00218	26.61444	27.39401	0.7026075	0.8024702	0.6985773	-0.1038928
0.029373	0.00102	29.89986	15.3205	0.0756879	0.4381065	0.5502121	0.1121056
0.014332	0.02191	16.59278	18.437	0.8825994	0.8161682	0.8864192	0.0702509
0.029935	0.0388	14.11213	15.23821	0.566185	0.6167359	0.6739156	0.05717971
0.029373	0.01316	18.80801	15.32048	0.4200261	0.3174879	0.4016248	0.08413693
0.041826	0.01889	17.23767	13.78552	0.8362445	0.7701403	0.8202083	0.05006798
0.030445	0.01782	17.4905	15.16486	0.88947	0.7972628	0.871774	0.07451116
1.60E-05	4.46E-07	63.50379	47.96692	0.3117796	0.1320961	0.298016	0.16592
0.028149	0.00699	21.55249	15.50537	0.3012956	0.5030279	0.358279	-0.1447489
0.007391	0.0092	20.36148	21.31309	0.2564093	0.3984011	0.5024151	0.104014
0.046665	0.02188	16.59944	13.31011	0.0620969	0.1465558	0.3182524	0.1716966
9.31E-05	1.45E-05	48.37988	40.31067	0.3124807	0.1554203	0.2868963	0.131476
0.033164	0.02636	15.79003	14.7933	0.8143965	0.8899151	0.8254744	-0.06444066
0.003942	0.00506	22.95668	24.0428	0.5475683	0.7672704	0.5367292	-0.2305412
0.040918	0.01541	18.12231	13.88083	0.8854073	0.7881621	0.7031062	-0.08505584
0.019815	0.0334	14.76227	17.03015	0.6498257	0.729353	0.6373534	-0.09199965

0.000708	0.00064	31.9617	31.49671	0.6384746	0.7079738	0.6258247	-0.08214901
0.036928	0.0092	20.36133	14.32643	0.8462961	0.7689607	0.8225169	0.05355616
0.040347	0.00333	24.77408	13.94184	0.8162037	0.6753874	0.7476923	0.07230482
0.000357	0.00086	30.66621	34.4737	0.818464	0.8902995	0.8180654	-0.07223412
0.017135	0.00232	26.34603	17.66122	0.9063702	0.6402121	0.5217206	-0.1184914
0.005674	0.00051	32.92279	22.46094	0.8106136	0.4980074	0.676848	0.1788406
0.00669	0.0211	16.75617	21.74587	0.2170877	0.1585125	0.2355973	0.07708474
0.015397	0.00518	22.85381	18.12555	0.073196	0.39315	0.5776089	0.1844589
0.03782	0.00234	26.29932	14.22278	0.8416255	0.6525057	0.7439173	0.09141162
0.040913	0.02829	15.4836	13.88138	0.8877003	0.8311369	0.8852583	0.05412143
0.006	0.00268	25.72599	22.21828	0.8378227	0.9081153	0.8496263	-0.05848904
0.004754	0.00332	24.78515	23.22973	0.8777101	0.819196	0.8812042	0.06200816
0.043186	0.01807	17.42997	13.64656	0.1734024	0.0777132	0.147219	0.06950579
0.017393	0.0071	21.48593	17.59632	0.7410184	0.8549696	0.7714287	-0.08354092
0.015321	0.00015	38.10577	18.1472	0.2852544	0.2205649	0.2736366	0.05307167
0.003424	0.00565	22.47614	24.6549	0.0974594	0.0384089	0.0905026	0.05209369
0.004768	0.00053	32.75018	23.21668	0.8888092	0.8033088	0.8603715	0.0570627
0.000179	0.00076	31.16866	37.45948	0.7708519	0.9088258	0.789072	-0.1197537
0.039594	0.00338	24.71039	14.0237	0.601735	0.3654609	0.4735531	0.1080922
0.003644	0.00181	27.42796	24.3844	0.7366123	0.6022359	0.7198797	0.1176438
0.000124	0.00238	26.22747	39.06749	0.1421343	0.2552356	0.4419478	0.1867122
0.015688	0.00088	30.5787	18.0444	0.1260023	0.2608164	0.1958334	-0.06498308
0.019356	0.02637	15.78954	17.13194	0.1866293	0.1109323	0.188227	0.07729468
0.042229	1.26E-05	48.98188	13.74385	0.0438825	0.1886059	0.2886353	0.1000293
1.42E-07	4.84E-06	53.15149	68.47064	0.1664564	0.6204294	0.4543322	-0.1660972
0.035072	0.00216	26.64753	14.55044	0.6632879	0.7768134	0.8367287	0.05991522
0.022856	0.02142	16.69149	16.40994	0.3734204	0.3231662	0.3864152	0.06324897
0.028826	0.00035	34.57814	15.40212	0.0990208	0.1820413	0.2938593	0.111818
0.032421	0.01382	18.59431	14.89171	0.5928246	0.4679958	0.3571422	-0.1108536
0.005037	3.16E-05	45.00209	22.97826	0.5572737	0.3397509	0.2374383	-0.1023127
0.016162	0.0013	28.87666	17.91494	0.7383241	0.8551905	0.7786903	-0.07650019
0.034645	0.01106	19.56195	14.60364	0.7365885	0.5725843	0.6873063	0.1147221
0.011355	0.01806	17.43209	19.44828	0.2354127	0.3183928	0.4207429	0.1023502
0.037533	0.00161	27.93219	14.25584	0.8322751	0.5741693	0.4732611	-0.1009082
0.034114	0.01124	19.49384	14.67064	0.7299358	0.3873699	0.6279626	0.2405927
0.029601	0.00369	24.3259	15.28692	0.2865156	0.6092532	0.8283589	0.2191057
0.000451	0.02553	15.92896	33.46139	0.8265061	0.7703378	0.8460006	0.07566285
0.005293	3.04E-06	55.17358	22.76282	0.7519952	0.507992	0.6154201	0.1074281
0.040718	0.00166	27.80548	13.90215	0.8370281	0.7371903	0.7877415	0.0505512
0.043453	0.03681	14.34022	13.61983	0.9183841	0.8515884	0.9144859	0.06289742
0.02464	0.00137	28.64676	16.08361	0.619182	0.8138637	0.735072	-0.0787917
0.00326	0.00359	24.45147	24.86796	0.8624757	0.8104904	0.8667044	0.056214
0.021031	0.02808	15.51623	16.77145	0.8756716	0.8204005	0.8830332	0.06263275
0.014243	0.0091	20.40934	18.4639	0.7230154	0.8108325	0.7293044	-0.08152802
0.001903	0.00344	24.62949	27.20641	0.6950765	0.7847249	0.6882071	-0.09651777
0.044933	0.01123	19.49428	13.47437	0.4041813	0.5459704	0.6412116	0.09524122
0.000103	0.00062	32.09098	39.88375	0.8121195	0.8736527	0.7983093	-0.07534342
0.016679	0.00232	26.35417	17.77828	0.7801139	0.6842733	0.6006325	-0.0836408
0.036897	0.01119	19.51332	14.33013	0.8607479	0.6978348	0.8126075	0.1147727
0.047579	0.04137	13.83326	13.22588	0.615101	0.4959253	0.6059293	0.110004
0.003264	0.00167	27.76135	24.86185	0.9022582	0.9617594	0.9090278	-0.05273161
0.020553	0.0057	22.44384	16.87115	0.917431	0.7923646	0.6881501	-0.1042145
0.029956	0.03692	14.32732	15.23513	0.5751566	0.77294	0.566675	-0.206265
0.02963	0.00015	38.10708	15.28264	0.7028142	0.562875	0.5079965	-0.05487851



0.040281	0.00656	21.8309	13.94902	0.3881464	0.4954583	0.5460424	0.05058412
0.015105	0.03877	14.11547	18.20868	0.2087447	0.2845795	0.3800338	0.09545429
0.007805	0.00182	27.39639	21.07629	0.2465453	0.4874558	0.6701185	0.1826627
0.007353	0.00238	26.22669	21.33522	0.8888983	0.8240234	0.8772187	0.05319532
0.006526	0.00777	21.09323	21.8538	0.6673023	0.7244493	0.6628311	-0.06161819
0.028458	0.00269	25.70186	15.4579	0.8120685	0.7380137	0.6680276	-0.06998607
0.003975	0.02059	16.86422	24.00653	0.7223865	0.8223302	0.683104	-0.1392262
0.021897	0.00679	21.68375	16.59608	0.4783531	0.3921406	0.4535465	0.06140589
0.018494	0.02037	16.91075	17.32977	0.2660167	0.1362117	0.2698225	0.1336108
0.003379	0.00095	30.20024	24.71205	0.2640455	0.1582652	0.2487523	0.09048709
0.019011	0.01087	19.63968	17.20998	0.1896226	0.0851171	0.1758143	0.09069721
0.004567	0.00013	38.82944	23.40336	0.9053735	0.7833771	0.645025	-0.1383521
0.000381	0.00013	39.01975	34.1856	0.8565754	0.914707	0.8521507	-0.06255631
6.11E-05	0.00036	34.45201	42.14274	0.1437763	0.061981	0.1253564	0.06337544
0.025555	0.00099	30.05307	15.92521	0.737221	0.6124554	0.5379861	-0.07446931
0.019933	0.00464	23.33202	17.00434	0.8168144	0.6553623	0.762418	0.1070558
0.020236	0.03845	14.15115	16.93886	0.9195	0.8418717	0.6833537	-0.1585179
0.04095	9.93E-06	50.0293	13.8775	0.8872402	0.7323418	0.6420684	-0.09027334
0.013952	0.02714	15.66373	18.55377	0.8405122	0.7843649	0.85118	0.06681508
0.022593	0.02972	15.26983	16.46027	0.3894181	0.4511883	0.3874183	-0.06377002
0.029322	0.0397	14.01158	15.32813	0.7372567	0.8043718	0.7340058	-0.07036602
0.00471	0.00464	23.33705	23.26982	0.175459	0.1226147	0.1806355	0.05802083
0.007403	0.00035	34.51279	21.30585	0.9534872	0.8258594	0.6597039	-0.1661555
0.011566	0.00097	30.12251	19.36827	0.4026357	0.259751	0.3723583	0.1126073
0.000949	0.00035	34.59787	30.2257	0.7826806	0.6636218	0.7586089	0.09498704
0.00128	0.00769	21.14045	28.92699	0.6602565	0.7435046	0.6236587	-0.1198459
0.024618	0.04248	13.71772	16.08744	0.5578883	0.6400092	0.5441992	-0.09580997
0.049885	3.33E-05	44.77582	13.02031	0.7675582	0.5918557	0.5131941	-0.07866154
0.008826	0.00026	35.78691	20.54217	0.8862264	0.7892141	0.8535405	0.06432641
1.88E-06	3.06E-07	65.14343	57.25827	0.3330968	0.2325051	0.311407	0.07890186
0.011076	0.02017	16.95325	19.55634	0.8498955	0.6680446	0.4598251	-0.2082195
2.12E-05	0.00029	35.44328	46.74049	0.2306228	0.1636434	0.2310233	0.06737985
0.000188	0.00015	38.36254	37.25026	0.8395588	0.9316502	0.8599784	-0.07167185
0.001278	9.64E-05	40.16008	28.93469	0.1391308	0.0652392	0.116718	0.05147882
0.038507	0.00355	24.496	14.14457	0.912793	0.79563	0.8563228	0.06069282
0.005974	0.00205	26.88698	22.2372	0.8205161	0.9278769	0.7674188	-0.1604582
0.048882	0.00876	20.57388	13.10849	0.2267851	0.1255212	0.1868508	0.06132962
0.003328	0.00048	33.21761	24.77843	0.7964475	0.5415655	0.3868105	-0.1547551
0.030157	0.00175	27.58034	15.20614	0.4869234	0.3527231	0.4149109	0.06218782
0.016964	0.04933	13.06884	17.7048	0.761558	0.8127148	0.7440429	-0.06867193
0.014746	0.00242	26.15989	18.31312	0.8402559	0.722954	0.6314893	-0.09146471
0.003642	7.25E-07	61.39743	24.38631	0.6669904	0.8650887	0.8129518	-0.05213688
0.008099	0.0182	17.39855	20.9157	0.4336676	0.4857267	0.4205433	-0.06518339
0.003323	0.03023	15.19585	24.78449	0.7265875	0.8079401	0.6780481	-0.1298919
0.001713	9.83E-07	60.07655	27.66126	0.2144605	0.6069895	0.7328326	0.1258431
0.004124	0.00424	23.72608	23.84682	0.1409026	0.0832033	0.1414989	0.05829558
0.039902	0.00128	28.9432	13.99004	0.6755958	0.5250617	0.4496696	-0.07539213
0.007668	0.03348	14.7527	21.1533	0.6966194	0.7688372	0.6574251	-0.111412
0.035015	0.00209	26.80036	14.55741	0.0392858	0.1367876	0.2239453	0.08715766
0.017462	0.00156	28.07825	17.57901	0.8709294	0.7427912	0.6226956	-0.1200956
0.028769	0.0028	25.5223	15.41079	0.8053611	0.6917642	0.7585483	0.06678411
0.017682	0.02173	16.62911	17.52477	0.8829071	0.7863727	0.6903788	-0.09599387
0.033209	0.00015	38.2436	14.7874	0.2075021	0.4915304	0.57397	0.0824396
0.000286	0.00013	38.99016	35.43793	0.1877034	0.334605	0.2154085	-0.1191965

0.019269	0.00445	23.51682	17.15133	0.884722	0.7802909	0.8502829	0.06999201
0.011102	0.01637	17.86052	19.54598	0.851818	0.7412286	0.5983492	-0.1428795
0.026521	0.01553	18.08914	15.7641	0.8284623	0.6497945	0.7982781	0.1484836
0.012663	0.00094	30.27262	18.97453	0.3448644	0.4927855	0.4116311	-0.08115433
0.022134	0.00063	32.01262	16.54945	0.7658394	0.5139344	0.5912964	0.0773619
0.041044	0.00369	24.33538	13.86755	0.1864818	0.0915931	0.1439368	0.05234371
0.006624	0.00116	29.37174	21.78887	0.7025918	0.7743886	0.7021884	-0.07220019
0.016282	0.03355	14.74369	17.88298	0.6440471	0.5934042	0.5145906	-0.07881362
0.020002	0.03478	14.58729	16.98926	0.7362892	0.8219373	0.7254263	-0.0965111
0.011307	1.01E-06	59.97668	19.46652	0.4104919	0.7667755	0.6502026	-0.116573
0.000239	0.00042	33.74855	36.2194	0.3067777	0.1781254	0.2913554	0.11323
0.022984	0.01947	17.10711	16.38569	0.5914162	0.7011877	0.5969495	-0.1042382
0.022784	0.00024	36.20282	16.42375	0.8615609	0.5563831	0.6756741	0.1192911
0.009476	0.00833	20.79478	20.23366	0.3684213	0.5377726	0.6124688	0.07469617
0.010102	0.02669	15.73687	19.95579	0.8437698	0.7326357	0.6003031	-0.1323327
0.000762	0.00164	27.8517	31.17923	0.3417892	0.4580595	0.3117591	-0.1463005
0.015226	0.00656	21.83168	18.17406	0.7575493	0.8522993	0.791289	-0.06101028
0.048151	0.03651	14.37576	13.17391	0.7891601	0.8738495	0.7974001	-0.07644942
0.038821	0.00985	20.06369	14.1093	0.8064377	0.6870087	0.7662039	0.07919524
0.013177	0.00152	28.17048	18.80184	0.6239899	0.4451164	0.5724971	0.1273807
0.029772	0.03183	14.97164	15.26187	0.6476441	0.5462322	0.6484982	0.102266
0.00201	0.00517	22.86171	26.96838	0.8218887	0.8735077	0.8044023	-0.06910536
0.000816	0.00033	34.83743	30.88287	0.8564323	0.719346	0.8434005	0.1240544
0.003384	0.00506	22.96053	24.70536	0.5701106	0.7018116	0.5723225	-0.129489
8.72E-05	9.96E-05	40.01953	40.59253	0.0765959	0.0185856	0.0718814	0.05329577
0.00049	0.004	23.98482	33.09439	0.7938654	0.8592167	0.7680393	-0.09117743
0.046608	0.04966	13.03974	13.31536	0.7313306	0.8243634	0.7293978	-0.09496567
0.044828	0.02525	15.97804	13.48454	0.8637723	0.7820988	0.8511443	0.06904554
0.005948	0.0035	24.55784	22.25624	0.7451252	0.8362511	0.7634708	-0.07278029
0.014019	0.0081	20.91739	18.5327	0.2812723	0.1559045	0.267897	0.1119926
0.000119	0.00412	23.85225	39.24201	0.7025703	0.7638122	0.6971732	-0.06663904
0.0204	0.04241	13.72537	16.90377	0.1577354	0.2398265	0.1402889	-0.09953757
0.019407	0.02129	16.71827	17.12039	0.836624	0.7445477	0.8378445	0.09329681
0.02649	0.01122	19.50143	15.76925	0.8903447	0.8238451	0.7673398	-0.05650541
0.00311	0.00695	21.57871	25.07291	0.7709914	0.8557407	0.7581739	-0.09756684
0.000277	0.00011	39.6618	35.57745	0.7056501	0.8842351	0.7309141	-0.153321
0.001466	0.00024	36.20668	28.3383	0.2809623	0.109488	0.2548383	0.1453504
0.044945	0.00243	26.14521	13.47321	0.8531585	0.7333555	0.7926592	0.0593038
0.003853	0.0311	15.07172	24.14177	0.6382746	0.5444627	0.6811433	0.1366807
5.65E-05	0.00021	36.68874	42.4815	0.7541884	0.6688721	0.7443216	0.07544947
0.000173	0.00125	29.04125	37.63126	0.5460472	0.6359724	0.5128871	-0.1230853
0.007963	0.0014	28.54095	20.98938	0.4933651	0.4255109	0.483166	0.05765512
0.014234	0.02133	16.71076	18.4666	0.688952	0.7601681	0.683813	-0.07635515
0.020407	0.00242	26.1532	16.90226	0.8603805	0.7795632	0.8332705	0.05370728
0.001172	0.00542	22.65927	29.31231	0.221904	0.1712312	0.2231937	0.05196247
0.001127	3.36E-05	44.73515	29.48166	0.8533236	0.9166561	0.8626505	-0.05400563
0.001791	0.001	30.00786	27.4686	0.740141	0.8014623	0.7027834	-0.09867886
0.036151	0.00716	21.4532	14.41884	0.9567119	0.792451	0.6988431	-0.09360795
0.009919	0.02887	15.39599	20.03529	0.8013856	0.856769	0.7836413	-0.07312765
0.005676	0.00064	31.91702	22.45927	0.1431431	0.0784592	0.1347247	0.0562655
0.023644	0.00105	29.79853	16.26275	0.8777891	0.7721056	0.8272668	0.05516123
0.018566	0.0159	17.98738	17.3128	0.7803534	0.838102	0.7791526	-0.05894945
0.035301	0.00565	22.47635	14.52218	0.8344791	0.6259212	0.5241067	-0.1018145
0.021436	0.03523	14.53124	16.68851	0.3424696	0.4499853	0.3215271	-0.1284582

0.026834	0.01673	17.76547	15.71322	0.9073392	0.8176127	0.8988057	0.08119295
0.029672	1.29E-06	58.87761	15.27652	0.106469	0.3106259	0.3805272	0.06990124
0.0254	0.04245	13.72129	15.95168	0.1335178	0.1897456	0.2855928	0.09584717
0.011937	0.00909	20.41276	19.2311	0.5958598	0.7685784	0.6161128	-0.1524655
0.033845	0.00908	20.41799	14.70502	0.8743724	0.7295948	0.8290963	0.09950154
0.001342	0.02995	15.2361	28.72091	0.8189096	0.876725	0.7600242	-0.1167007
0.043316	0.00822	20.85272	13.63351	0.8984244	0.807201	0.7301167	-0.07708433
0.002512	0.00661	21.79942	25.99983	0.67515	0.7302424	0.657595	-0.07264747
1.59E-05	1.47E-05	48.32763	47.98195	0.3531583	0.0996647	0.2810664	0.1814017
0.014847	0.01939	17.12375	18.28347	0.8275202	0.885192	0.819575	-0.06561702
0.049882	0.00028	35.50429	13.02059	0.901141	0.6794409	0.5548753	-0.1245656
0.00549	0.00069	31.58776	22.60446	0.6952176	0.8115915	0.7308272	-0.08076434
1.12E-05	7.16E-05	41.4506	49.50922	0.7503592	0.8456175	0.7513797	-0.09423781
0.003437	0.00838	20.76949	24.63859	0.7080973	0.858162	0.6898934	-0.1682686
0.029167	3.44E-05	44.63489	15.35106	0.8427293	0.7042488	0.7643321	0.06008328
0.031858	0.03859	14.13516	14.96786	0.8510082	0.9175669	0.8481348	-0.06943208
0.016242	0.00051	32.93596	17.89353	0.1101999	0.2788354	0.3684897	0.08965427
0.001657	0.00187	27.29194	27.80583	0.226594	0.1259495	0.2304912	0.1045417
0.042899	0.03768	14.23835	13.67557	0.7868785	0.7015748	0.7859789	0.08440408
0.022877	0.02508	16.00671	16.40607	0.3977722	0.4559249	0.3985069	-0.05741801
8.11E-05	5.58E-09	82.53398	40.90948	0.2371731	0.1183643	0.2166062	0.0982419
0.003181	0.00071	31.48414	24.97431	0.1669001	0.1008823	0.1510766	0.05019428
0.004066	0.00017	37.65062	23.90821	0.0985489	0.5639209	0.7820172	0.2180964
0.001347	0.00272	25.65985	28.70695	0.0924825	0.0394289	0.0942279	0.05479895
0.037769	0.00065	31.89553	14.22865	0.5507826	0.3936539	0.4631816	0.06952771
2.81E-06	7.13E-06	51.46764	55.51616	0.6100807	0.7709808	0.6076672	-0.1633136
0.04144	0.01387	18.57944	13.82577	0.8530842	0.7491141	0.8212884	0.07217429
0.01656	0.03998	13.98122	17.80938	0.0544056	0.192726	0.357361	0.164635
0.001255	0.00412	23.85339	29.01363	0.6618036	0.7661142	0.6457061	-0.1204082
0.002501	0.00371	24.30233	26.01832	0.5321637	0.7302959	0.5383533	-0.1919426
0.016815	0.01107	19.55736	17.74314	0.7929299	0.6800042	0.5794641	-0.10054
0.00315	0.00205	26.88918	25.01669	0.2567677	0.1486202	0.242673	0.09405276
0.021201	0.04319	13.64584	16.73645	0.653767	0.7132593	0.6369819	-0.07627734
0.048711	0.02924	15.34074	13.1237	0.0192656	0.0988636	0.0327588	-0.06610481
0.03807	0.03884	14.10693	14.19415	0.8912231	0.8175187	0.8911633	0.07364461
0.020027	0.01229	19.10415	16.9839	0.7312065	0.6188806	0.7069694	0.08808882
0.00574	0.00171	27.65902	22.41111	0.3098154	0.1897371	0.2889661	0.099229
0.002106	0.00013	38.87235	26.76557	0.8734807	0.663759	0.4908049	-0.1729541
0.030902	0.04308	13.65773	15.10016	0.8553612	0.7505249	0.6405386	-0.1099863
0.010458	0.01128	19.47601	19.80571	0.0673297	0.1506464	0.063922	-0.08672442
0.027616	0.01836	17.3622	15.58836	0.8669	0.7765917	0.8501728	0.07358114
0.028487	0.02111	16.75559	15.45351	0.8289351	0.6818544	0.8201903	0.1383358
0.001373	0.00177	27.52173	28.62477	0.6919289	0.822924	0.6780876	-0.1448364
0.017515	0.00569	22.44805	17.56585	0.159553	0.2447986	0.3520766	0.107278
0.016209	0.01191	19.23994	17.90252	0.5638331	0.668146	0.5714124	-0.09673353
0.00279	0.00041	33.84531	25.54441	0.6567481	0.7511501	0.6785027	-0.07264747
0.025935	0.04034	13.94243	15.86117	0.6144445	0.7439409	0.5975083	-0.1464327
0.001438	9.86E-05	40.0624	28.42154	0.8068258	0.7314106	0.7897148	0.05830417
0.014099	0.00307	25.12211	18.50801	0.8218187	0.7508898	0.8019683	0.05107848
0.014728	0.00293	25.33758	18.31853	0.1375834	0.2577625	0.1885625	-0.0692
0.012797	0.01694	17.71172	18.92903	0.640041	0.7925135	0.6328248	-0.1596887
5.77E-05	7.88E-05	41.03288	42.386	0.851549	0.9335338	0.8431031	-0.09043064
0.003262	0.02469	16.07526	24.8645	0.28521	0.2185206	0.3371569	0.1186363
0.028157	0.01817	17.40576	15.5042	0.2154581	0.1317207	0.2064811	0.07476044

0.027806	0.01329	18.76426	15.55856	0.6603627	0.7430953	0.664416	-0.07867938
0.029311	0.04052	13.92299	15.32973	0.8073979	0.7454507	0.8177946	0.0723438
0.021241	9.89E-05	40.04954	16.72818	0.3103945	0.1723592	0.226699	0.05433983
0.003295	0.00244	26.12488	24.82153	0.7982439	0.8874124	0.8167045	-0.07070793
0.022045	0.01909	17.19234	16.56688	0.0492354	0.1306252	0.0555151	-0.07511004
0.015249	0.02231	16.51469	18.16751	0.7502158	0.8694743	0.7410166	-0.1284577
0.006069	0.00137	28.62735	22.16878	0.185442	0.084913	0.1627179	0.07780491
0.014204	0.00639	21.94271	18.47593	0.7398204	0.8173338	0.7407951	-0.07653865
0.017012	0.01877	17.26553	17.69248	0.2967733	0.2138743	0.2928467	0.07897247
0.007009	0.01606	17.94331	21.54353	0.8690668	0.8005739	0.8783168	0.07774282
0.001806	0.00059	32.30634	27.43228	0.7594935	0.8465057	0.7803771	-0.06612866
0.006654	0.0064	21.93958	21.7695	0.870375	0.7569889	0.6423936	-0.1145954
0.006943	3.29E-06	54.83008	21.58438	0.2314849	0.623826	0.7240585	0.1002325
0.047111	0.01617	17.91326	13.26875	0.1975471	0.1252742	0.1781275	0.0528533
0.018418	0.01086	19.6416	17.34746	0.3193021	0.1767063	0.2960876	0.1193813
0.033828	0.01086	19.6434	14.7072	0.8921704	0.7772337	0.8543952	0.07716154
0.016332	0.01887	17.24189	17.86965	0.6803532	0.7785002	0.6877981	-0.09070207
0.000949	0.00081	30.91358	30.22823	0.7397424	0.7987426	0.7399389	-0.05880367
0.000353	0.00027	35.7081	34.52515	0.8342046	0.7763289	0.8385164	0.06218743
0.00671	0.01263	18.98468	21.733	0.051506	0.2088131	0.3601469	0.1513338
0.01851	7.16E-05	41.44901	17.32596	0.0828317	0.4113272	0.5225537	0.1112265
0.002414	0.00031	35.15417	26.17262	0.2603532	0.0716645	0.2071142	0.1354497
0.045913	0.01596	17.97058	13.38066	0.1210127	0.2807193	0.3883358	0.1076165
0.039485	0.00416	23.80573	14.0357	0.7723102	0.5562296	0.4472918	-0.1089378
0.04393	0.03773	14.23365	13.57239	0.2706385	0.1983175	0.2638001	0.06548259
0.024849	0.00078	31.0685	16.04683	0.7179291	0.5929505	0.6563919	0.06344146
0.008185	0.00609	22.15224	20.87	0.6130376	0.7712145	0.6349394	-0.1362751
0.003923	0.00339	24.69544	24.0638	0.9653975	0.8776227	0.6951762	-0.1824465
0.015114	0.0101	19.95676	18.20631	0.7415443	0.8407273	0.753341	-0.08738632
0.037654	0.00544	22.6451	14.24188	0.7594067	0.5888615	0.4787867	-0.1100748
0.042822	0.02194	16.58685	13.68333	0.5053782	0.431376	0.4932265	0.06185051
0.001521	0.00106	29.73519	28.17978	0.4996973	0.6540428	0.52121	-0.1328328
0.041798	0.00898	20.46498	13.78847	0.73233	0.6066697	0.6809565	0.0742868
0.027528	0.01	20.00174	15.60219	0.9064477	0.8376644	0.8925372	0.05487277
0.013354	0.00014	38.46882	18.74393	0.2193946	0.1516547	0.2091256	0.05747087
0.002262	0.00072	31.45055	26.4547	0.7662459	0.8751348	0.7857731	-0.08936176
0.004864	0.00454	23.42919	23.12967	0.4789672	0.6400841	0.7406659	0.1005818
0.002499	1.97E-05	47.06526	26.02199	0.1388373	0.0637344	0.1196484	0.05591399
0.001358	0.00291	25.3653	28.67031	0.7199736	0.7828326	0.7102138	-0.07261878
0.001989	4.91E-05	43.09111	27.01393	0.8145888	0.9022453	0.828378	-0.07386734
0.017153	0.00125	29.03487	17.65659	0.9040897	0.8318244	0.6589485	-0.1728759
0.002965	3.38E-05	44.71231	25.28011	0.6242622	0.8458859	0.7513307	-0.09455521
0.022886	0.03281	14.83929	16.40421	0.2667173	0.1683129	0.2373591	0.06904621
0.038092	0.00598	22.23067	14.19166	0.8472222	0.6632163	0.5616556	-0.1015607
0.019249	0.01756	17.55581	17.15588	0.5812014	0.6926739	0.5875453	-0.1051286
0.026271	2.39E-05	46.22379	15.80518	0.4098721	0.7578382	0.8296073	0.07176904
0.000286	0.00034	34.66879	35.43077	0.7959771	0.9002252	0.7860302	-0.114195
0.010572	0.00282	25.49475	19.75829	0.8630453	0.5697741	0.4044237	-0.1653503
0.009404	0.02268	16.44312	20.26677	0.0457035	0.1189537	0.275233	0.1562793
0.017945	0.01387	18.58006	17.46058	0.1374416	0.0740666	0.129969	0.05590242
0.000225	0.00042	33.7244	36.48567	0.2841971	0.1562032	0.2757986	0.1195954
0.009696	0.01589	17.98945	20.13409	0.1306668	0.0765236	0.1322322	0.05570853
0.009794	0.00672	21.72386	20.09028	0.9032691	0.768434	0.8974758	0.1290417
0.002814	0.00228	26.42339	25.50705	0.7618253	0.8250851	0.7628818	-0.06220331

0.024015	0.0052	22.83713	16.19524	0.8334849	0.7393792	0.8060263	0.06664708
0.048719	0.00216	26.64808	13.12304	0.6746486	0.4282256	0.3271739	-0.1010516
0.036198	0.01913	17.18302	14.4131	0.8461552	0.7215322	0.62574	-0.09579221
0.000461	1.28E-05	48.92235	33.36624	0.9126659	0.8225297	0.8752307	0.05270097
0.009487	0.04029	13.94847	20.22872	0.9410091	0.8761647	0.7711015	-0.1050632
0.01467	0.02068	16.84503	18.33571	0.4916047	0.6782723	0.4908523	-0.18742
0.003983	0.00228	26.42348	23.99831	0.1124224	0.0481066	0.107484	0.05937735
0.043475	0.00486	23.12963	13.61757	0.9398845	0.741451	0.6338245	-0.1076265
0.002698	0.00241	26.17143	25.68912	0.8408832	0.8978121	0.8083734	-0.0894387
0.000139	0.00056	32.50685	38.56277	0.5062934	0.6371135	0.5053726	-0.1317408
0.027759	0.00908	20.4213	15.56589	0.1759593	0.1155695	0.1660609	0.05049136
0.017056	0.0155	18.09758	17.68114	0.8948432	0.8259411	0.8938692	0.06792805
0.030762	0.0307	15.12902	15.11987	0.7359575	0.6121521	0.73526	0.1231079
0.003189	0.00212	26.74671	24.96334	0.635497	0.7742501	0.6405474	-0.1337027
0.001175	0.00232	26.34552	29.29977	0.8581632	0.7829893	0.8694677	0.08647844
0.004454	0.00428	23.68857	23.51221	0.7155019	0.7736397	0.8280722	0.05443247
0.006388	0.00342	24.6592	21.94646	0.3191583	0.2356513	0.3052462	0.06959487
0.003222	0.00116	29.35011	24.91824	0.1848479	0.077398	0.1633904	0.08599243
0.034214	0.01666	17.78425	14.65795	0.8337082	0.7265521	0.8057177	0.07916562
0.025963	0.00391	24.07464	15.85641	0.1211339	0.3331617	0.4761241	0.1429624
0.00334	0.00068	31.69877	24.76316	0.2105169	0.153716	0.2307823	0.07706634
0.032865	0.02671	15.73291	14.83263	0.7886388	0.7180587	0.7798036	0.06174493
0.000139	0.00028	35.57033	38.56982	0.6881933	0.8297958	0.6662936	-0.1635022
0.023106	0.00188	27.26243	16.36283	0.9164224	0.7038143	0.5723656	-0.1314486
0.000106	0.0002	36.97387	39.73882	0.3887729	0.1593821	0.3873143	0.2279322
0.016969	0.04609	13.36412	17.70353	0.9222091	0.808638	0.6498796	-0.1587584
0.003807	0.00091	30.41711	24.19437	0.5679189	0.3199482	0.5263184	0.2063702
0.009432	0.00249	26.04241	20.25409	0.0889578	0.3229917	0.4405561	0.1175645
0.000534	0.00012	39.24765	32.72071	0.2290955	0.1398802	0.2105507	0.0706705
0.002516	0.00291	25.36294	25.99205	0.8387748	0.9192615	0.8501078	-0.06915371
0.031489	0.021	16.77694	15.01846	0.8001878	0.7219656	0.7934305	0.07146488
1.19E-05	3.35E-05	44.74532	49.25156	0.5745686	0.7931194	0.5753507	-0.2177687
0.039719	0.017	17.69445	14.01002	0.8947153	0.7357271	0.8555323	0.1198051
0.035261	0.03849	14.14637	14.52709	0.2052124	0.1443043	0.2029182	0.05861391
0.003882	0.00065	31.87983	24.10986	0.4270189	0.2718118	0.3830124	0.1112007
0.011925	0.00873	20.58895	19.23538	0.68003	0.7593598	0.6926097	-0.06675015
0.034386	0.02363	16.26553	14.63614	0.3299744	0.2491162	0.3256958	0.07657963
0.011544	6.39E-05	41.94757	19.37649	0.215181	0.4373224	0.3524701	-0.08485237
0.024754	0.0484	13.1515	16.06349	0.7429883	0.6855819	0.6218849	-0.063697
0.00361	0.00146	28.36935	24.42545	0.6820214	0.5784457	0.4849096	-0.09353603
0.001312	0.0006	32.2532	28.81906	0.0611521	0.3160541	0.4736095	0.1575554
4.40E-05	0.00125	29.03362	43.56395	0.8012571	0.6973219	0.7680277	0.07070583
0.000319	3.15E-05	45.01349	34.96114	0.2131484	0.1204629	0.1839365	0.06347359
0.018279	0.01741	17.59198	17.3804	0.792336	0.8754365	0.7923276	-0.08310888
0.023853	0.01343	18.71988	16.22458	0.1643837	0.0959527	0.1501351	0.05418236
0.005486	0.0072	21.42454	22.60717	0.182768	0.0842359	0.1654221	0.0811862
0.003018	0.00025	36.08463	25.20336	0.8698601	0.9436569	0.8915188	-0.05213811
0.0023	0.00293	25.32891	26.38322	0.6577944	0.7429897	0.6569324	-0.08605726
0.022281	0.00098	30.07433	16.52064	0.7937068	0.5473448	0.6472078	0.09986296
0.022218	0.01311	18.82266	16.53292	0.8896968	0.6829072	0.5049398	-0.1779674
0.01491	0.00457	23.4033	18.26534	0.8663479	0.7624788	0.8367488	0.07427008
0.040697	0.02385	16.22578	13.90438	0.818316	0.7339342	0.8065411	0.07260702
0.005758	0.01782	17.49015	22.39697	0.8621476	0.9248456	0.8499416	-0.07490403
0.021505	0.02301	16.37992	16.67453	0.8888872	0.7813433	0.6799502	-0.1013931

0.030413	0.01147	19.40468	15.1694	0.8463969	0.7565249	0.825956	0.06943109
0.012633	0.00751	21.24453	18.98489	0.2387568	0.1586502	0.2199206	0.06127039
0.003064	0.00164	27.85324	25.13655	0.2118324	0.1360545	0.2087606	0.07270607
0.002888	0.00299	25.24192	25.39473	0.6925654	0.7546932	0.6974267	-0.05726653
0.001407	0.00141	28.51177	28.51576	0.7686789	0.8736075	0.7694098	-0.1041977
0.016539	4.25E-07	63.72059	17.81479	0.8051002	0.6741701	0.7332345	0.05906445
0.029515	0.02744	15.61691	15.29964	0.9257473	0.7851851	0.9157035	0.1305184
0.038459	0.01919	17.16957	14.15003	0.8225913	0.6600053	0.535462	-0.1245434
0.043807	0.04422	13.54334	13.5846	0.4412762	0.4961297	0.4432237	-0.05290605
0.013705	0.02094	16.79076	18.63127	0.8967293	0.8452768	0.8959817	0.05070495
0.000994	0.00704	21.52413	30.0246	0.7712945	0.8372367	0.7438343	-0.09340238
0.000233	3.91E-05	44.07809	36.33563	0.8521922	0.9318186	0.8635752	-0.06824346
0.027092	3.74E-05	44.27356	15.67163	0.1682052	0.1050285	0.1730708	0.06804231
0.005957	0.01187	19.25659	22.24987	0.826154	0.9061945	0.817946	-0.08824851
0.000429	0.0007	31.55539	33.67604	0.6430081	0.7425814	0.6347103	-0.1078711
0.016319	0.0005	32.97906	17.87309	0.8733087	0.7265841	0.6489973	-0.07758672
0.019453	0.0234	16.30774	17.11004	0.2271294	0.1559859	0.2436992	0.08771326
0.010879	0.00831	20.80205	19.63393	0.7974142	0.9037815	0.8093862	-0.09439524
0.008442	0.01226	19.11548	20.73546	0.5474601	0.6051101	0.5473962	-0.05771396
0.007826	0.02612	15.82956	21.06487	0.650008	0.7393597	0.619002	-0.1203577
0.015293	0.00735	21.33543	18.1552	0.7557963	0.586309	0.4664478	-0.1198612
0.015269	0.01496	18.25	18.16177	0.7865096	0.8668247	0.7919652	-0.07485957
0.035667	0.0023	26.37458	14.47733	0.1074959	0.1702087	0.25412	0.08391123
0.038281	5.52E-05	42.57938	14.17016	0.7069155	0.3809909	0.2770622	-0.1039287
0.04767	0.01682	17.74199	13.21752	0.5833158	0.4697977	0.563642	0.09384432
0.004358	0.00172	27.63529	23.60712	0.3051627	0.2202779	0.2917285	0.07145059
0.048634	0.02028	16.93004	13.13062	0.8689361	0.7386811	0.8346119	0.09593076
0.001374	0.00627	22.02692	28.61985	0.5997938	0.7152884	0.5738621	-0.1414263
0.011328	0.01334	18.74872	19.45844	0.6129832	0.6984138	0.6158702	-0.0825437
0.034959	0.01154	19.37905	14.56435	0.7681551	0.660225	0.7496341	0.08940911
0.00382	0.00565	22.47941	24.17884	0.8846988	0.7948324	0.8921251	0.09729266
0.023529	0.04267	13.69924	16.28403	0.489613	0.3684192	0.2232287	-0.1451905
0.045381	0.01102	19.57998	13.43129	0.8174692	0.605891	0.7294332	0.1235422
0.01069	0.00077	31.12277	19.71033	0.0969058	0.2397418	0.1671306	-0.07261121
0.046444	0.01555	18.08356	13.33066	0.7132691	0.8665777	0.766905	-0.09967282
0.031562	0.03286	14.83304	15.00839	0.8881281	0.8258107	0.7523604	-0.07345032
0.00431	0.00708	21.49847	23.65474	0.5815129	0.6721691	0.5828253	-0.08934387
0.000705	0.00121	29.18732	31.51816	0.1481626	0.0738851	0.1418849	0.06799982
0.038912	0.01636	17.86253	14.09921	0.8500275	0.7033015	0.8095389	0.1062373
0.020002	0.00809	20.91913	16.9892	0.8671613	0.9339857	0.8834379	-0.05054773
0.008746	6.84E-08	71.64991	20.58174	0.5216455	0.9184158	0.8515667	-0.06684913
7.11E-05	7.83E-05	41.06083	41.48093	0.5024502	0.637207	0.4856654	-0.1515416
0.003718	0.00418	23.78483	24.29675	0.7958121	0.8874242	0.8017249	-0.08569933
0.004612	0.00175	27.57059	23.36146	0.7286693	0.4803231	0.2723585	-0.2079646
0.001559	0.00417	23.79551	28.07224	0.6494166	0.7164244	0.6433281	-0.07309633
0.044573	0.01501	18.2353	13.50924	0.6490139	0.5279254	0.6146777	0.08675236
0.00963	0.01378	18.60613	20.16361	0.8222886	0.6893355	0.5583591	-0.1309764
0.002785	0.00556	22.54843	25.55128	0.3513674	0.2458493	0.3584366	0.1125873
0.004717	0.00043	33.64415	23.26299	0.1965723	0.3859747	0.5093599	0.1233852
0.004308	0.00094	30.26688	23.65755	0.7059497	0.7741861	0.7109868	-0.06319929
0.004266	0.00638	21.9532	23.69951	0.7928152	0.7414109	0.6827333	-0.05867755
0.005023	0.0084	20.7565	22.99076	0.6897956	0.7913879	0.6961722	-0.09521563
0.016889	0.00593	22.26706	17.72401	0.2231883	0.123545	0.201896	0.078351
0.015677	0.00654	21.84283	18.04724	0.8849629	0.7251682	0.605423	-0.1197452

0.031109	0.01765	17.53133	15.07116	0.8749991	0.8182249	0.7482276	-0.06999731
0.029702	0.00064	31.96745	15.27208	0.8452159	0.7496443	0.801403	0.05175872
0.037075	0.00071	31.49126	14.30917	0.1089627	0.6059208	0.7368439	0.1309231
0.024645	0.00604	22.19139	16.08278	0.1649039	0.2989518	0.3852647	0.08631288
2.29E-05	0.00014	38.46311	46.40993	0.6390409	0.7023146	0.625933	-0.07638156
0.001493	0.00394	24.0458	28.25924	0.7801607	0.882981	0.7889369	-0.09404413
0.016485	1.16E-05	49.36227	17.829	0.8233501	0.5864478	0.4480695	-0.1383783
0.000718	0.00074	31.28817	31.4362	0.1494001	0.0842098	0.1463726	0.06216278
0.000638	0.00376	24.2501	31.95486	0.70891	0.7882962	0.6810021	-0.1072941
0.020865	0.00751	21.24614	16.80577	0.8114808	0.7281614	0.7832262	0.05506479
0.034456	0.0445	13.51609	14.62735	0.9190775	0.7974866	0.6751214	-0.1223652
0.000393	4.01E-05	43.96494	34.05379	0.1919835	0.0727358	0.1646443	0.09190845
0.028075	0.01298	18.86565	15.51677	0.8189707	0.7363232	0.8002	0.06387679
0.036756	0.0122	19.13517	14.3467	0.7218761	0.4563944	0.2947212	-0.1616732
0.035399	0.01384	18.58882	14.51007	0.4639403	0.5983188	0.7028698	0.104551
0.019529	0.01316	18.80821	17.09323	0.8862531	0.7542871	0.6370699	-0.1172172
0.014506	0.017	17.69462	18.38448	0.680439	0.7428331	0.6787034	-0.06412978
0.012932	0.00257	25.90581	18.88325	0.7676482	0.592294	0.7068582	0.1145642
0.009001	0.00021	36.76087	20.457	0.7393273	0.8983291	0.8292429	-0.06908619
0.019893	0.01818	17.40333	17.0129	0.2517724	0.129986	0.248617	0.1186311
0.023752	0.00108	29.65046	16.24299	0.208294	0.3594371	0.4247554	0.06531826
0.022226	0.00408	23.89722	16.5314	0.8498471	0.9271831	0.8680441	-0.05913894
0.001003	0.00082	30.85184	29.98557	0.2062681	0.1096062	0.1822808	0.07267465
0.031949	0.03258	14.87066	14.95546	0.8381819	0.7590289	0.6634417	-0.09558722
0.048383	0.03361	14.73488	13.15305	0.0622938	0.125218	0.0698339	-0.05538408
0.013681	0.01001	19.99472	18.63886	0.6097468	0.6765325	0.6091525	-0.06738003
0.001834	0.01184	19.26748	27.36573	0.6617116	0.7232656	0.6402235	-0.08304212
0.02597	0.01197	19.21993	15.85525	0.8889335	0.8253577	0.8769138	0.05155612
0.036436	0.01571	18.0386	14.38469	0.8191795	0.7428316	0.6699891	-0.07284259
0.04371	0.02558	15.92184	13.59423	0.9024668	0.791328	0.6899051	-0.1014229
0.001127	0.00019	37.27367	29.48232	0.8042597	0.6760973	0.5713584	-0.1047389
0.029073	0.00281	25.50692	15.36514	0.7751238	0.6085776	0.7080241	0.09944648
0.010261	0.00108	29.66892	19.88798	0.6009569	0.7100295	0.6405432	-0.06948629
0.001899	0.0015	28.23212	27.21478	0.1777251	0.0767035	0.1587782	0.08207469
0.011187	0.00722	21.41392	19.51284	0.772504	0.6642917	0.7645707	0.1002789
0.009811	0.0102	19.91389	20.08276	0.7009894	0.78551	0.6976438	-0.08786626
0.021216	0.0208	16.81889	16.73331	0.7122075	0.7964716	0.7167535	-0.07971808
0.013114	0.04344	13.62079	18.82262	0.7315964	0.6483185	0.7599216	0.1116031
0.009954	4.02E-08	73.95933	20.0202	0.1157072	0.7496326	0.8413332	0.09170066
0.010749	0.0006	32.2034	19.68646	0.7578436	0.5886515	0.673326	0.0846744
0.021782	0.04485	13.4822	16.6191	0.4304479	0.3341528	0.2174091	-0.1167437
1.00E-05	1.17E-06	59.29977	50.00074	0.8424241	0.9359765	0.8525103	-0.08346626
0.022665	0.01901	17.20952	16.44643	0.1181554	0.1825715	0.1210881	-0.06148335
0.001311	0.00258	25.87567	28.82447	0.7739244	0.8927037	0.7615709	-0.1311328
0.009289	0.00553	22.57254	20.3204	0.1093798	0.0474483	0.0997711	0.05232276
0.008237	0.01204	19.19223	20.8425	0.1747105	0.1208923	0.1879245	0.06703223
0.047148	0.01554	18.08674	13.2654	0.9001474	0.8032394	0.8686904	0.06545105
0.041525	7.90E-06	51.02304	13.81693	0.1059678	0.2748823	0.3540829	0.07920066
0.001506	2.27E-06	56.4429	28.22296	0.8393586	0.6694577	0.5810953	-0.08836234
0.019965	0.00153	28.14621	16.99724	0.8262981	0.6386659	0.5195139	-0.119152
0.013875	0.01438	18.42213	18.57754	0.7686029	0.8928329	0.7733261	-0.1195068
0.037016	0.01244	19.05196	14.31607	0.4332909	0.5245708	0.4569383	-0.06763248
0.032326	0.00579	22.37003	14.90448	0.7442945	0.5328128	0.6668	0.1339871
0.011242	4.20E-05	43.76324	19.49142	0.8838584	0.7145772	0.78469	0.07011276

0.037002	0.0366	14.36493	14.31777	0.9475145	0.8029638	0.670229	-0.1327348
9.65E-05	0.0002	36.92673	40.15615	0.3128652	0.2068806	0.3205518	0.1136712
0.000405	0.00081	30.89337	33.92471	0.6835333	0.8982283	0.7257324	-0.172496
0.01222	0.03327	14.7797	19.12941	0.4691392	0.5194044	0.4524903	-0.06691409
0.018226	0.00437	23.59137	17.39309	0.8905094	0.7773024	0.856698	0.07939558
0.002666	0.00106	29.75635	25.74059	0.2849485	0.1534232	0.2755818	0.1221585
0.042379	0.00017	37.68995	13.72853	0.8019195	0.6315642	0.5346714	-0.09689288
0.004696	0.00324	24.89995	23.28267	0.8604983	0.7939636	0.8617193	0.06775568
0.006217	0.01868	17.28558	22.06396	0.8711653	0.8201124	0.885431	0.06531855
0.047152	0.00021	36.74084	13.26496	0.7184707	0.4967726	0.5804195	0.0836469
0.003058	0.00312	25.0554	25.14626	0.884092	0.9455388	0.8773549	-0.06818392
0.007239	0.005	23.01171	21.40339	0.7569509	0.6394576	0.5396549	-0.09980273
0.000758	0.00075	31.25136	31.20255	0.1728384	0.1200859	0.1726777	0.05259178
0.001871	0.00888	20.51629	27.27948	0.695735	0.5389586	0.612367	0.07340837
0.012636	0.00468	23.29978	18.98374	0.8266736	0.7435374	0.8114389	0.06790138
0.000743	0.00475	23.23371	31.29148	0.8266544	0.884456	0.7937871	-0.0906689
0.022648	0.02344	16.30048	16.44967	0.7502485	0.8400658	0.7537535	-0.08631223
0.011429	0.0002	36.94413	19.41989	0.7565419	0.5395142	0.4357325	-0.1037818
0.041095	0.01614	17.92218	13.86216	0.8063909	0.4970979	0.721698	0.2246001
0.013687	0.0025	26.02237	18.63693	0.1942901	0.0871221	0.1582249	0.07110284
0.024677	0.00524	22.80606	16.077	0.3625057	0.1837429	0.2833361	0.09959316
0.006222	0.00143	28.4531	22.06075	0.8371594	0.7671329	0.8197802	0.05264722
0.000327	1.63E-05	47.86575	34.85448	0.7491677	0.8435397	0.7271636	-0.1163761
0.030067	0.00462	23.35046	15.21905	0.9503413	0.8584884	0.7406355	-0.1178529
0.009296	0.01322	18.78849	20.31697	0.8959503	0.7911948	0.6696353	-0.1215595
0.037681	0.02813	15.50877	14.23879	0.5697855	0.6703598	0.5835987	-0.08676121
0.033184	0.01869	17.28466	14.79076	0.7526618	0.695103	0.7459309	0.05082784
0.036152	0.00109	29.61572	14.41869	0.8922333	0.709098	0.6327695	-0.07632846
0.000445	0.00034	34.7311	33.51267	0.8019551	0.6254615	0.7512124	0.1257509
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