

Table S1 The differential expressed genes between the lung cancer tissue with brain metastasis (BM) and the lung cancer tissue without brain metastasis (non-BM)

Probe set ID	GeneCard	RefSeq	Fold change	P value
BM vs. non-BM_up-regulated				
TC08001363.hg.1	PMP2	NM_002677	28.96785545	0.00017898
TC04000475.hg.1	IBSP	NM_004967	12.75397778	2.11261E-05
TC12000534.hg.1	KIF5A	NM_004984	6.965970993	0.005674939
TC18000250.hg.1	CNDP1	NM_032649	6.468757153	0.004892144
TC0X000202.hg.1	GPR34	NM_001097579	6.285571098	0.000717201
TC03001907.hg.1	P2RY12	NM_022788	6.256172657	5.90045E-05
TC15000102.hg.1	SNORD115-32	NR_003347	6.20377636	0.043669458
TC12001216.hg.1	OLR1	NM_001172632	6.106423855	0.000598783
TC10001390.hg.1			6.025267601	0.000271749
TC15000079.hg.1	SNORD115-5	NR_003297	5.583612442	0.039175872
TC15000082.hg.1	SNORD115-12		5.583612442	0.039175872
TC15000085.hg.1	SNORD115-12		5.583612442	0.039175872
TC03002146.hg.1	APOD	NM_001647	5.411141872	0.001852201
TC07000738.hg.1	PTPRZ1	NM_001206838	5.151777744	0.017305275
TC02000927.hg.1	KIF5C	NM_004522	5.077821732	0.001174458
TC06001246.hg.1	F13A1	NM_000129	5.061850548	0.011136511
TC05000336.hg.1	MAP1B	NM_005909	4.986633301	0.000641904
TC15000094.hg.1	SNORD115-22	NR_003314	4.983524323	0.046154875
TC15000084.hg.1	SNORD115-11	NR_003303	4.971110344	0.04749465
TC15000099.hg.1	SNORD115-43		4.971110344	0.04749465
TC15000105.hg.1	SNORD115-43		4.971110344	0.04749465
TC15000112.hg.1	SNORD115-43	NR_003344	4.971110344	0.04749465
TC02001101.hg.1	FAM171B	NM_177454	4.721604824	0.003015576
TC02002818.hg.1	SCG2	NM_003469	4.405179977	0.000290716
TC01003718.hg.1	CHI3L1	NM_001276	4.398467541	6.99283E-05
TC0X001100.hg.1	VSIG4	NM_001100431	4.293147087	0.00144267
TC0X001435.hg.1	CDR1	NM_004065	4.243797302	0.009428671
TC10001007.hg.1	IL2RA	NM_000417	4.211421967	0.001531358
TC0X000868.hg.1	GPM6B	NM_001001994	4.195038795	0.000141668
TC05000165.hg.1	SLC1A3	NM_001166695	4.160526276	0.000408219
TC05001271.hg.1	RANBP3L	NM_001161429	4.053710938	0.022308551
TC11000506.hg.1	MS4A4A	NM_001243266	4.046921253	0.002356767
TC07001751.hg.1	NRCAM	NM_001037132	4.032931328	0.005758495
TC01001306.hg.1	SYT11	NM_152280	3.88836503	0.000238548
TC15002814.hg.1	GATM	NM_001482	3.829595327	0.00062555
TC18000141.hg.1	DTNA	NM_001128175	3.730038166	0.002214364
TC06000051.hg.1	LY86	NM_004271	3.698990822	0.000210817
TC17001588.hg.1	GFAP	NM_001131019	3.655704975	0.005597031
TC10000839.hg.1	ATRNL1	NM_207303	3.627275229	0.048673715
TC07001895.hg.1	PTN	NM_002825	3.568985462	0.004716398

TC02002591.hg.1	FRZB	NM_001463	3.491071701	0.000142451
TC01002441.hg.1	LAPTM5	NM_006762	3.398138762	0.007058223
TC02001749.hg.1	CYP1B1		3.37729454	0.025770023
TC12000619.hg.1			3.35932374	0.033643745
TC09000358.hg.1	PSAT1	NM_021154	3.357765198	0.002929548
TC14000702.hg.1	SNORD114-22	NR_003215	3.216124535	0.004242271
TC05001558.hg.1	EDIL3	NM_005711	3.178550005	0.000634688
TC11003451.hg.1	MS4A7	NM_021201	3.165935755	0.002784115
TC18000562.hg.1	CDH19	NM_021153	3.124633074	0.003810683
TC11001273.hg.1	MIR675	NR_002196	3.120049953	0.041669458
TC17001365.hg.1			3.105282784	0.019030649
TC14002309.hg.1	SERPINA3	NM_001085	3.100817204	0.003107582
TC03000831.hg.1	SUCNR1	NM_033050	3.083432913	0.007188134
TC01000972.hg.1	CHI3L2	NM_001025197	3.074073315	0.000951407
TC14002303.hg.1	FLVCR2	NM_001195283	3.068885803	0.002954598
TC04000663.hg.1	PCDH10	NM_020815	3.061193466	0.000918439
TC09000940.hg.1	SLC24A2	NM_001193288	3.033716202	0.000815037
TC01001172.hg.1	FCGR1A	NM_000566	3.013765335	0.00446468
TC16000622.hg.1	CNTNAP4	NM_033401	3.004944801	0.016113961
TC09000388.hg.1	NTRK2	NM_001007097	3.002038002	0.00354382
TC12001162.hg.1	CD163	NM_004244	2.999963045	0.001673784
TC04001366.hg.1	SPARCL1	NM_001128310	2.981074333	0.001760291
TC06000985.hg.1	ENPPI	NM_006208	2.964042187	0.010569913
TC04000590.hg.1	UGT8	NM_001128174	2.948944807	0.025648432
TC01003057.hg.1	FCGR1B	NM_001004340	2.943397284	0.008304389
TC06004150.hg.1	FKBP5	NM_001145775	2.928694487	0.006664895
TC16000461.hg.1	GNAO1	NM_020988	2.873774529	0.005531095
TC02002451.hg.1	ERMN	NM_001009959	2.860012054	0.009446505
TC04000584.hg.1	ANK2	NM_001127493	2.854416847	0.005374498
TC15000410.hg.1	TMOD2	NM_001142885	2.838787317	0.005700092
TC19001458.hg.1	TYROBP	NM_001173514	2.833515406	0.017975334
TC15001766.hg.1	HDGFRP3	NM_016073	2.792568445	0.038922396
TC06000820.hg.1	FHL5	NM_001170807	2.78063488	0.005060821
TC16000939.hg.1	IGSF6	NM_005849	2.770199299	0.003504323
TC01000286.hg.1	C1QC	NM_001114101	2.751938581	0.00749718
TC03001906.hg.1	P2RY13	NM_176894	2.745084524	0.001061366
TC17000108.hg.1	ATP1B2	NM_001678	2.727494955	0.039477639
TC0X000171.hg.1	CYBB	NM_000397	2.699702263	0.006082909
TC11000802.hg.1	SLCO2B1	NM_001145211	2.681615353	0.001124069
TC12000642.hg.1	GLIPR1	NM_006851	2.670655489	0.009343919
TC10000132.hg.1	MRC1	NM_002438	2.670426846	0.028465163
TC10000135.hg.1	MRC1	NM_002438	2.648893356	0.031044224
TC01001161.hg.1	FCGR1C	NR_027484	2.646533251	0.004399983
TC08001081.hg.1	CLU	NM_001831	2.646105528	0.006213433

TC01001619.hg.1	RGS18	NM_130782	2.64263916	0.000782193
TC01006307.hg.1	FCGR3A	NM_000569	2.639513254	0.015022321
TC16000455.hg.1	LPCAT2	NM_017839	2.622773647	0.025507638
TC07000192.hg.1	C7orf41	NM_152793	2.607469559	0.015969507
TC14000701.hg.1	SNORD114-21	NR_003214	2.59266758	0.006872288
TC11001839.hg.1	MS4A6A	NM_001247999	2.57846117	0.000801482
TC20000587.hg.1	RASSF2	NM_014737	2.558472633	0.014965618
TC01000226.hg.1			2.53313303	0.031280614
TC17001342.hg.1	EVI2A	NM_001003927	2.532556295	0.001509922
TC14000070.hg.1	RNASE6	NM_005615	2.530841827	0.02391497
TC17001157.hg.1	PMP22	NM_000304	2.519938231	0.010174166
TC04001393.hg.1	HPGDS	NM_014485	2.516288519	0.043542936
TC04001370.hg.1	ABCG2	NM_004827	2.515264988	0.010327037
TC20000893.hg.1	PLTP	NM_001242920	2.514629841	0.019285696
TC04001809.hg.1	ACSL1	NM_001995	2.512543917	0.00209672
TC11002420.hg.1	FEZ1	NM_005103	2.498394012	0.001489481
TC03000203.hg.1	MOBP	NM_182935	2.496957779	0.035026733
TC12001171.hg.1	C3AR1	NM_004054	2.489016056	0.012653514
TC07000095.hg.1	SCIN	NM_001112706	2.478035688	0.009431725
TC17001820.hg.1	SLC16A6	NM_001174166	2.461461544	0.000653997
TC01001974.hg.1	KMO	NM_003679	2.460780621	0.011364904
TC20000960.hg.1	BCAS1	NM_003657	2.459759474	0.048525069
TC0X000051.hg.1	TLR7	NM_016562	2.447454691	0.001470799
TC0X000829.hg.1	KAL1	NM_000216	2.445884228	0.008073085
TC13000741.hg.1	KCTD12	NM_138444	2.44319129	0.001940637
TC14002288.hg.1	RNASE2	NM_002934	2.442022324	0.008989264
TC14000523.hg.1	GPR65	NM_003608	2.439985275	0.005741122
TC0X001180.hg.1	ITM2A	NM_001171581	2.427601337	0.006480054
TC06000976.hg.1	LAMA2	NM_000426	2.402740479	0.014744353
TC12001772.hg.1	LIN7A	NM_004664	2.384558678	0.001055531
TC02001750.hg.1	CYP1B1	NM_000104	2.378429174	0.032221615
TC10000145.hg.1	PLXDC2	NM_032812	2.372161865	0.001983076
TC07001546.hg.1	FGL2	NM_006682	2.370890617	0.012966131
TC12001324.hg.1	BHLHE41	NM_030762	2.36116147	0.003997198
TC06001841.hg.1	OTTHUMG00000014935		2.359289169	0.041097458
TC15000329.hg.1	MAP1A	NM_002373	2.358320951	0.019474095
TC14000671.hg.1	SNORD113-6	NR_003234	2.35455513	0.017198363
TC14000700.hg.1	SNORD114-20	NR_003213	2.353644848	0.018875163
TC01002986.hg.1	ADORA3	NM_000677	2.352229595	0.001930645
TC15000405.hg.1	GLDN	NM_181789	2.350723267	0.038936343
TC08001556.hg.1	ENPP2	NM_001040092	2.349602461	0.001832421
TC05000187.hg.1	C7	NM_000587	2.34081459	0.006927712
TC01001738.hg.1	CR1	NM_000573	2.335926294	0.001657461
TC17000103.hg.1	CD68	NM_001040059	2.313439131	0.022235774

TC19000788.hg.1	FPR2	NM_001005738	2.308834553	0.022137124
TC11000755.hg.1	FOLR2	NM_000803	2.295002699	0.004802138
TC17001606.hg.1			2.294960976	0.013857574
TC02002649.hg.1	RFTN2	NM_144629	2.285322905	0.003588176
TC09001335.hg.1	OMD	NM_005014	2.266857624	0.011049322
TC09002901.hg.1	S1PR3		2.260079384	0.001690242
TC18000273.hg.1	COLEC12	NM_130386	2.251832724	0.039545309
TC01002314.hg.1	CAMK2N1	NM_018584	2.250782013	0.001708544
TC13000100.hg.1	ALOX5AP	NM_001204406	2.247437	0.036999334
TC01003405.hg.1	CD84	NM_001184879	2.247006893	0.001388173
TC01001382.hg.1	FCER1G	NM_004106	2.244108438	0.02203254
TC11001818.hg.1	MPEG1	NM_001039396	2.240686655	0.015349614
TC05001419.hg.1	CD180	NM_005582	2.239713669	0.011049389
TC11001893.hg.1	PLA2G16	NM_001128203	2.235122204	0.002933481
TC10000219.hg.1	ZEB1	NM_001128128	2.227586269	0.004976335
TC01001950.hg.1	GPR137B	NM_003272	2.22223568	0.004409033
TC20000703.hg.1	CD93	NM_012072	2.220791578	0.015664687
TC09001334.hg.1	OGN	NM_014057	2.218692541	0.023812324
TC06002070.hg.1			2.214931488	0.026492801
TC03000468.hg.1	EPHA3	NM_005233	2.208221912	0.002714551
TC06001976.hg.1	BVES	NM_001199563	2.202935457	0.001212139
TC05000576.hg.1	SNX2	NM_003100	2.202290297	0.014819757
TC12000591.hg.1	IRAK3	NM_001142523	2.197674513	0.00445207
TC01001346.hg.1	MNDA	NM_002432	2.194089174	0.008001962
TC01001587.hg.1	RGL1	NM_015149	2.184227943	0.010796065
TC04001682.hg.1	FAM198B	NM_001031700	2.179914236	0.004595179
TC13000298.hg.1	SLAIN1	NM_001040153	2.176131248	0.039470069
TC01000808.hg.1	PRKACB	NM_001242857	2.16961813	0.002177593
TC03000626.hg.1	CD86	NM_001206924	2.16865325	0.018101113
TC10000499.hg.1			2.163562536	0.011178438
TC11000507.hg.1	MS4A6E	NM_139249	2.154759407	0.001560888
TC07001563.hg.1	CACNA2D1	NM_000722	2.14908576	0.011312648
TC03002038.hg.1	GNB4	NM_021629	2.149040937	0.019864563
TC14000708.hg.1	SNORD114-28	NR_003221	2.144290209	0.011284227
TC04000775.hg.1	TLR2	NM_003264	2.134350538	0.004950068
TC04001226.hg.1	IGFBP7	NM_001253835	2.130049706	0.016208015
TC13000524.hg.1	UBL3	NM_007106	2.12929368	0.002885738
TC19001787.hg.1	FPR1	NM_001193306	2.126012325	0.015436689
TC03000455.hg.1	CADM2	NM_001167674	2.12441659	0.00321079
TC0X000203.hg.1	GPR82	NM_080817	2.122865915	0.029688872
TC21000060.hg.1	NCAM2	NM_004540	2.117866993	0.006578705
TC20000821.hg.1	SAMHD1	NM_015474	2.116315126	0.030043956
TC19000789.hg.1	FPR3	NM_002030	2.11372447	0.04786583
TC04001713.hg.1	SPOCK3	NM_001040159	2.109771729	0.003166464

TC05001861.hg.1	CD14	NM_000591	2.106118202	0.027529068
TC01003624.hg.1	FAM129A	NM_052966	2.103080511	0.032668542
TC01000287.hg.1	C1QB	NM_000491	2.094592333	0.005059643
TC05001411.hg.1	SGTB	NM_019072	2.092687845	0.015940936
TC17001341.hg.1	EVI2B	NM_006495	2.081735849	0.012223152
TC01001427.hg.1	RGS4	NM_001102445	2.060781956	0.006182276
TC15000796.hg.1	TM6SF1	NM_001144903	2.058783293	0.005165192
TC16000921.hg.1	GPRC5B	NM_016235	2.057255507	0.010053606
TC04002939.hg.1	TMEM144	NM_018342	2.055847168	0.00279869
TC05001449.hg.1			2.0517416	0.019341806
TC18000566.hg.1	CD226	NM_006566	2.050318003	0.002275425
TC06002119.hg.1	VNN1	NM_004666	2.048698187	0.039683923
TC15001373.hg.1			2.041697979	0.046006896
TC01001364.hg.1	PEA15	NM_003768	2.037189007	0.004939863
TC10001064.hg.1	ITGA8	NM_003638	2.033124208	0.041617431
TC09001224.hg.1	PRUNE2	NM_015225	2.032747269	0.001938998
TC21001069.hg.1	SAMSN1	NM_022136	2.03207016	0.00638666
TC04000351.hg.1	LPHN3	NM_015236	2.031728983	0.010423156
TC06000954.hg.1	NKAIN2	NM_001040214	2.027779579	0.009949411
TC05001182.hg.1	FAM134B	NM_001034850	2.022445679	0.003530346
TC15000269.hg.1			2.00852561	0.005878597
TC13000717.hg.1	PCDH9	NM_020403	2.002192497	0.003175348
TC01003042.hg.1	TBX15	NM_152380	2.002003908	0.002395197
TC11001107.hg.1	SORL1	NM_003105	1.998506665	0.029905563
TC04002916.hg.1	TLR1	NM_003263	1.992959857	0.015391935
TC05000132.hg.1	CDH6	NM_004932	1.990787864	0.006212386
TC03001862.hg.1	SLC9A9	NM_173653	1.989861012	0.001907557
TC09000601.hg.1	TLR4	NM_003266	1.98921597	0.012277525
TC05000291.hg.1	PIK3R1	NM_001242466	1.988412619	0.021487946
TC05001836.hg.1	LRRTM2	NM_015564	1.987689853	0.029261475
TC02000701.hg.1	MERTK	NM_006343	1.986803174	0.032018881
TC14000688.hg.1	SNORD114-11	NR_003204	1.982136726	0.028997179
TC19002629.hg.1	IFI30	NM_006332	1.973547339	0.032913744
TC08000203.hg.1	DPYSL2	NM_001197293	1.965387106	0.020727353
TC04000439.hg.1	LOC100505702	NR_038303	1.963857889	0.008867913
TC6_dbb_hap3000060.hg.1	AIF1	NM_001623	1.949707627	0.024306083
TC0Y000084.hg.1			1.948933125	0.04512709
TC0Y000221.hg.1			1.948933125	0.04512709
TC15000768.hg.1			1.948933125	0.04512709
TC15000775.hg.1			1.948933125	0.04512709
TC15000781.hg.1			1.948933125	0.04512709
TC15000788.hg.1			1.948933125	0.04512709
TC15000803.hg.1			1.948933125	0.04512709
TC15001749.hg.1			1.948933125	0.04512709

TC15001779.hg.1			1.948933125	0.04512709
TC15001781.hg.1			1.948933125	0.04512709
TC01003605.hg.1	GLUL	NM_001033044	1.947606087	0.008251152
TC06000126.hg.1	ID4	NM_001546	1.943039656	0.006859032
TC0X000433.hg.1	SH3BGRL	NM_003022	1.931292772	0.007203844
TC09001547.hg.1	STOM	NM_004099	1.930805087	0.006195429
TC04000432.hg.1	CXCL13	NM_006419	1.920502067	0.029311659
TC03000723.hg.1	TF	NM_001063	1.918911338	0.026039289
TC17001760.hg.1	LOC653653	NR_027408	1.918480158	0.006045571
TC02001272.hg.1			1.917553902	0.003860502
TC02002087.hg.1			1.917458892	0.011038133
TC04001194.hg.1	SGCB	NM_000232	1.916543365	0.004368348
TC07000161.hg.1	SNX10	NM_001199835	1.912013769	0.01126759
TC05000307.hg.1			1.910999775	0.005956322
TC14001451.hg.1	LGMN	NM_001008530	1.907801986	0.005861972
TC03000378.hg.1	PXK	NM_017771	1.904220581	0.003610034
TC05003434.hg.1	HAVCR2	NM_032782	1.899686337	0.00491087
TC6_mcf_hap5000055.hg.1	AIF1	NM_001623	1.898176908	0.024688741
TC10000869.hg.1	INPP5F	NM_001243194	1.89793539	0.003760972
TC03000862.hg.1	PTX3	NM_002852	1.893106937	0.008563991
TC10001559.hg.1	PIK3AP1	NM_152309	1.881738901	0.011950638
TC07000125.hg.1	ITGB8	NM_002214	1.881598353	0.021098344
TC12000092.hg.1	CD4	NM_000616	1.868907213	0.009369635
TC06000373.hg.1	AIF1	NM_001623	1.865234256	0.02349562
TC6_cox_hap2000069.hg.1	AIF1	NM_001623	1.865234256	0.02349562
TC6_qbl_hap6000060.hg.1	AIF1	NM_001623	1.865234256	0.02349562
TC6_ssto_hap7000056.hg.1	AIF1	NM_001623	1.865234256	0.02349562
TC18000300.hg.1	EPB41L3	NM_012307	1.863116026	0.003497042
TC16000879.hg.1	CPPED1	NM_001099455	1.86191678	0.003502326
TC05001310.hg.1	SEPP1	NM_001085486	1.857307076	0.035830796
TC19001185.hg.1	ELAVL3	NM_001420	1.856193781	0.007933593
TC01002553.hg.1	PPT1	NM_000310	1.850933671	0.01238612
TC15001418.hg.1			1.847047567	0.003916617
TC10001439.hg.1	KCNMA1	NM_001014797	1.837312222	0.003824607
TC19000772.hg.1	SIGLEC9	NM_001198558	1.835746169	0.008605267
TC06000399.hg.1	HLA-DRA	NM_019111	1.834497929	0.019914411
TC06000120.hg.1	RNF144B	NM_182757	1.83321476	0.020553565
TC12001309.hg.1	BCAT1	NM_001178091	1.827880859	0.006519837
TC14000406.hg.1	EIF2S1	NM_004094	1.82742238	0.029070204
TC17001029.hg.1	CXCL16	NM_001100812	1.821106434	0.033397015
TC19001846.hg.1	OTTHUMG00000150514		1.820336103	0.042054754
TC01000729.hg.1	DNAJC6	NM_014787	1.819239616	0.004514343
TC08000487.hg.1	LY96	NM_001195797	1.817831993	0.039121933
TC6_mcf_hap5000226.hg.1	HLA-DPB2	NR_001435	1.815494418	0.048406161

TC04001673.hg.1	PDGFC	NM_016205	1.813420057	0.038226802
TC13000161.hg.1	LACC1	NM_001128303	1.808711529	0.015436416
TC15001643.hg.1	SEMA7A	NM_001146029	1.805334687	0.020920603
TC05001172.hg.1	ANKH	NM_054027	1.802340508	0.009457212
TC08001007.hg.1	MSR1	NM_002445	1.799332976	0.010095731
TC07001915.hg.1	HIPK2	NM_001113239	1.798986316	0.023142289
TC6_cox_hap2000090.hg.1	HLA-DRA	NM_019111	1.797632337	0.021822097
TC06000895.hg.1	FAM229B	NM_001033564	1.794671059	0.005440593
TC11001786.hg.1	APLNR	NM_005161	1.787570119	0.039426185
TC14000705.hg.1	SNORD114-25	NR_003218	1.786252499	0.038482323
TC01000978.hg.1	C1orf162	NM_174896	1.785871148	0.023406878
TC06001228.hg.1	TUBB2B	NM_178012	1.784302235	0.021172674
TC04000732.hg.1	TMEM184C	NM_018241	1.78315556	0.027852565
TC10000338.hg.1	NCOA4	NM_001145260	1.783011794	0.035170801
TC03001501.hg.1	FAM107A	NM_001076778	1.781281233	0.012176199
TC04001670.hg.1	CTSO	NM_001334	1.780298233	0.040037058
TC17001340.hg.1	OMG	NM_002544	1.77842927	0.017382015
TC10000265.hg.1	RSU1P1		1.777194142	0.015435442
TC01003500.hg.1	SELL	NM_000655	1.776467085	0.005749077
TC05000253.hg.1	GAPT	NM_152687	1.774637222	0.026569236
TC12000467.hg.1	NCKAP1L	NM_001184976	1.773195505	0.005040627
TC20000867.hg.1	SERINC3	NM_006811	1.773094177	0.020573139
TC03000888.hg.1	PSAT1P4		1.772385836	0.018403146
TC02002827.hg.1	DOCK10	NM_014689	1.770691872	0.04413018
TC6_mann_hap4000074.hg.1	HLA-DRA	NM_019111	1.770550251	0.025163084
TC6_mcf_hap5000075.hg.1	HLA-DRA	NM_019111	1.768650532	0.024320813
TC6_qbl_hap6000081.hg.1	HLA-DRA	NM_019111	1.768650532	0.024320813
TC6_ssto_hap7000076.hg.1	HLA-DRA	NM_019111	1.768650532	0.024320813
TC04001161.hg.1	GABRA2	NM_000807	1.767859817	0.031199275
TC14001150.hg.1	GMFB	NM_004124	1.762240052	0.017662138
TC14002328.hg.1	RDH11	NM_001252650	1.759887338	0.047801435
TC06001057.hg.1	STX11	NM_003764	1.759380221	0.037603207
TC04001660.hg.1	PLRG1	NM_001201564	1.758620381	0.02563069
TC12001507.hg.1	BIN2	NM_016293	1.758072853	0.008164509
TC6_dbb_hap3000083.hg.1	HLA-DRA	NM_019111	1.756819963	0.024454553
TC03000407.hg.1	KBTBD8	NM_032505	1.756061792	0.0302116
TC05003425.hg.1	DAB2	NM_001244871	1.753152251	0.017038818
TC02001867.hg.1	EFEMP1	NM_001039348	1.751693249	0.014719662
TC06002106.hg.1	EPB41L2	NM_001135554	1.750870109	0.007542077
TC02002490.hg.1	SLC38A11	NM_001199148	1.749772429	0.03294928
TC10000081.hg.1	CELF2	NM_001025076	1.749268532	0.020491546
TC09000906.hg.1	PTPRD	NM_001040712	1.741073132	0.005014092
TC01000510.hg.1	SMAP2	NM_001198978	1.740068197	0.009913513
TC05000343.hg.1	FCHO2	NM_001146032	1.739500523	0.006512166

TC01002815.hg.1	TLL7	NM_024686	1.737247705	0.004946108
TC08001015.hg.1	ASAH1	NM_001127505	1.735827684	0.017108195
TC13000341.hg.1	RAP2A	NM_021033	1.735532284	0.01570341
TC13000663.hg.1	KPNA3	NM_002267	1.733271956	0.033814866
TC06001165.hg.1	QKI	NM_006775	1.731454611	0.005246948
TC03002041.hg.1	PEX5L	NM_016559	1.730320215	0.027829051
TC14000686.hg.1	SNORD114-9	NR_003201	1.723537564	0.015924191
TC02001769.hg.1	SLC8A1	NM_001112800	1.723072767	0.005438464
TC14000287.hg.1	ATL1	NM_001127713	1.721514702	0.029550226
TC03000867.hg.1	MFSD1	NM_001167903	1.720861673	0.009531613
TC01001498.hg.1	DNM3	NM_001136127	1.719269276	0.005535924
TC04000696.hg.1	USP38	NM_032557	1.707619429	0.016071584
TC17001385.hg.1	CCL3	NM_002983	1.705611944	0.034498461
TC04000510.hg.1	RAP1GDS1	NM_001100426	1.702547312	0.026678704
TC05000368.hg.1	IQGAP2	NM_006633	1.70125699	0.008513724
TC0X000978.hg.1	MAOB	NM_000898	1.701175451	0.045546416
TC01003523.hg.1	TNFSF18	NM_005092	1.698726892	0.010179875
TC11001015.hg.1	NCAM1	NM_000615	1.69781971	0.007619641
TC01001423.hg.1	DDR2	NM_001014796	1.69459784	0.02756854
TC07001236.hg.1	CPVL	NM_019029	1.694371581	0.011071404
TC19000634.hg.1	APOC1	NM_001645	1.693586588	0.019077871
TC15001612.hg.1	UACA	NM_001008224	1.692179441	0.008795445
TC17000357.hg.1	ADAP2	NM_018404	1.691679478	0.018502435
TC03001903.hg.1	GPR171	NM_013308	1.691167951	0.013045879
TC09000330.hg.1	GDA	NM_001242505	1.689515829	0.041477494
TC03000978.hg.1	B3GNT5	NM_032047	1.687116981	0.019300403
TC10002943.hg.1	ENTPD1	NM_001098175	1.686588407	0.009619052
TC05001883.hg.1	FGF1	NM_000800	1.68586278	0.007538858
TC0X000503.hg.1	PLP1	NM_000533	1.685408115	0.009234858
TC03000127.hg.1	NR1D2	NM_001145425	1.684740305	0.023932314
TC13000383.hg.1	TNFSF13B	NM_001145645	1.684415221	0.045429025
TC15000494.hg.1			1.682696342	0.026928185
TC13000190.hg.1	RB1	NM_000321	1.680433154	0.037994564
TC11003472.hg.1	CTSD	NM_001909	1.679901719	0.021703808
TC17000868.hg.1	UBALD2	NM_182565	1.678415418	0.006294477
TC06001941.hg.1	RRAGD	NM_021244	1.675221443	0.038760919
TC13000498.hg.1	MTMR6	NM_004685	1.675179482	0.023649281
TC19001779.hg.1	SIGLEC10	NM_001171156	1.6740973	0.007009546
TC05001689.hg.1	FEM1C	NM_020177	1.67382288	0.007438653
TC07000643.hg.1	SERPINE1	NM_000602	1.672187209	0.019066934
TC17001904.hg.1	ST6GALNAC1	NM_018414	1.672103763	0.040955208
TC05000769.hg.1	PCDHGC5		1.671090484	0.016083624
TC01001399.hg.1	FCGR2A	NM_001136219	1.670891166	0.029648492
TC06000817.hg.1	MANEA	NM_024641	1.665444851	0.04145683

TC05000184.hg.1	PTGER4	NM_000958	1.665353417	0.008722279
TC17001825.hg.1	ABCA8	NM_007168	1.665339112	0.012954676
TC09001548.hg.1	GGTA1P	NR_003191	1.665323138	0.008497919
TC04001347.hg.1	HPSE	NM_001098540	1.66470623	0.046781443
TC09001201.hg.1	KLF9	NM_001206	1.662670016	0.022404099
TC01001201.hg.1	MLLT11	NM_006818	1.661531806	0.04857628
TC18000180.hg.1	ME2	NM_001168335	1.661010146	0.012340344
TC08000209.hg.1	SCARA3	NM_016240	1.6604563	0.026908059
TC08000151.hg.1	ATP6V1B2	NM_001693	1.658333778	0.022379864
TC02004997.hg.1	LIMS3L	NM_001205288	1.654632092	0.031911705
TC12000297.hg.1	FGD4	NM_139241	1.653180242	0.03189642
TC10001504.hg.1	CH25H	NM_003956	1.652647614	0.02833329
TC22000547.hg.1	MAPK1	NM_002745	1.651054502	0.017056864
TC6_ssto_hap7000172.hg.1	HLA-DPA1	NM_001242524	1.65063107	0.015498672
TC6_apd_hap1000107.hg.1	HLA-DPA1	NM_001242524	1.648773909	0.016140211
TC6_mcf_hap5000177.hg.1	HLA-DPA1	NM_001242524	1.648773909	0.016140211
TC10001744.hg.1	ADAM12	NM_003474	1.648174524	0.023988346
TC06002071.hg.1	SERINC1	NM_020755	1.647115946	0.035418894
TC0X001197.hg.1	NAP1L3	NM_004538	1.645667315	0.04297062
TC11001593.hg.1			1.645286679	0.02905537
TC10001718.hg.1	IKZF5	NM_022466	1.645242572	0.012495917
TC17000780.hg.1			1.643994093	0.009123595
TC07001003.hg.1	GIMAP7	NM_153236	1.643314958	0.042082004
TC04001769.hg.1	AGA	NM_000027	1.642868519	0.027493948
TC05000227.hg.1	GZMK	NM_002104	1.642820835	0.011944581
TC13000748.hg.1	EDNRB	NM_000115	1.640839577	0.008933009
TC6_mann_hap4000170.hg.1	HLA-DPA1	NM_001242524	1.637617469	0.019592145
TC6_qbl_hap6000190.hg.1	HLA-DPA1	NM_001242524	1.637617469	0.019592145
TC05001932.hg.1	CSF1R	NM_005211	1.636199951	0.012680477
TC04001719.hg.1	DDX60L	NM_001012967	1.636003137	0.035775118
TC06001578.hg.1	HLA-DPA1	NM_001242524	1.635184646	0.01838842
TC6_dbb_hap3000188.hg.1	HLA-DPA1	NM_001242524	1.635184646	0.01838842
TC08000403.hg.1	SDCBP	NM_001007067	1.634121418	0.011780549
TC6_cox_hap2000202.hg.1	HLA-DPA1	NM_001242524	1.633663416	0.020409446
TC13000472.hg.1	ZDHHC20	NM_153251	1.632399321	0.047088113
TC13000518.hg.1	SLC46A3	NM_001135919	1.631816745	0.028470192
TC11001515.hg.1			1.628465414	0.021810761
TC06000720.hg.1	OGFRL1	NM_024576	1.627935886	0.010260507
TC01000785.hg.1	AK5	NM_012093	1.625139356	0.025652997
TC11001758.hg.1	FOLH1	NM_001014986	1.624141693	0.019476466
TC01003871.hg.1	TLR5	NM_003268	1.622881651	0.035445161
TC05002142.hg.1	RNF130	NM_018434	1.62266016	0.014552443
TC16001314.hg.1	COTL1	NM_021149	1.619325042	0.040123221
TC02000852.hg.1	RHOQP2		1.618747115	0.024383567

TC03001484.hg.1	ERC2	NM_015576	1.618318319	0.04335279
TC01003396.hg.1	KCNJ10	NM_002241	1.618152857	0.031885646
TC01001640.hg.1	PTPRC	NM_002838	1.616533637	0.015862171
TC0X000066.hg.1	MOSPD2	NM_001177475	1.615693927	0.019920198
TC11000777.hg.1	PLEKHB1	NM_001130033	1.614600182	0.013721935
TC04001383.hg.1	SNCA	NM_000345	1.613755584	0.012904987
TC17000047.hg.1	ARRB2	NM_004313	1.611590981	0.015398011
TC15001183.hg.1	FMN1	NM_001103184	1.608714581	0.022164734
TC01001900.hg.1	RAB4A	NM_004578	1.608391762	0.031798385
TC01000285.hg.1	CIQA	NM_015991	1.607345343	0.01731262
TC14001267.hg.1	SYNJ2BP-COX16	NM_001202547	1.606850386	0.046364356
TC01002649.hg.1	EPS15	NM_001159969	1.606660247	0.014267572
TC11000888.hg.1	FOLH1B	NM_153696	1.606162429	0.014303984
TC0X001113.hg.1	PDZD11	NM_016484	1.606147289	0.046555892
TC04001094.hg.1			1.605238676	0.046441071
TC03001696.hg.1	HCLS1	NM_005335	1.604821801	0.026686203
TC12000779.hg.1	GAS2L3	NM_174942	1.598672748	0.040324189
TC17001388.hg.1	CCL3L3	NM_001001437	1.597466946	0.03944442
TC06001809.hg.1	ICK	NM_014920	1.59718132	0.011478371
TC08000551.hg.1	NECAB1	NM_022351	1.595958591	0.011153744
TC01003210.hg.1	CTSS	NM_001199739	1.595672727	0.015562758
TC0X000025.hg.1	STS	NM_000351	1.594999909	0.032326497
TC15001161.hg.1	MTMR10	NM_017762	1.593420267	0.009921614
TC04001621.hg.1	SLC10A7	NM_001029998	1.593314409	0.019366292
TC13000742.hg.1	FBXL3	NM_012158	1.592939973	0.017780436
TC12000276.hg.1	FAR2	NM_018099	1.592667222	0.03292381
TC11000924.hg.1	AMOTL1	NM_130847	1.590832233	0.009820316
TC17001753.hg.1	TUBD1	NM_001193609	1.590809584	0.027423438
TC04000733.hg.1	ARHGAP10	NM_024605	1.590351701	0.035399456
TC06002114.hg.1	STX7	NM_003569	1.589060187	0.029530715
TC20000844.hg.1	MAFB	NM_005461	1.588638544	0.027851531
TC0X000619.hg.1	UTP14A	NM_001166221	1.588109374	0.030746059
TC11000639.hg.1			1.586022139	0.011091705
TC22001473.hg.1	SMDT1	NM_033318	1.585832357	0.048536155
TC22000838.hg.1	NAGA	NM_000262	1.585827589	0.014773532
TC14001387.hg.1	GALC	NM_000153	1.584712625	0.010025515
TC15001872.hg.1			1.584481478	0.03019787
TC17001395.hg.1	CCL3L3	NM_001001437	1.584100485	0.034462791
TC01003403.hg.1	SLAMF6	NM_001184714	1.583752394	0.027733212
TC17001053.hg.1	SCIMP	NM_207103	1.583092928	0.013745846
TC14001348.hg.1	SPTLC2	NM_004863	1.582128882	0.028474063
TC19000633.hg.1	APOE	NM_000041	1.581545353	0.019058947
TC12001933.hg.1	CMKLR1	NM_001142343	1.579734087	0.028918786
TC02000302.hg.1	FOXN2	NM_002158	1.579345703	0.014274254

TC02002365.hg.1	NCKAP5	NM_207363	1.577781081	0.011815603
TC16000529.hg.1	C16orf70	NM_025187	1.577251792	0.026289793
TC06001329.hg.1	FAM65B	NM_014722	1.575110674	0.031416897
TC01004040.hg.1	AKT3	NM_001206729	1.573407173	0.028290115
TC04000611.hg.1	USP53	NM_019050	1.572432399	0.030559516
TC0Y000006.hg.1	CSF2RA	NM_001161529	1.572237968	0.037033945
TC06000889.hg.1	SLC16A10	NM_018593	1.57210815	0.037610393
TC07000668.hg.1	LRRRC17	NM_001031692	1.571084261	0.038437568
TC10000366.hg.1	PHYHIPL	NM_001143774	1.570457697	0.014756302
TC13000642.hg.1	LCPI	NM_002298	1.569313049	0.024132196
TC19001517.hg.1	GMFG	NM_004877	1.567770123	0.026430231
TC16000435.hg.1	CNEP1R1	NM_153261	1.56677711	0.017254813
TC20000572.hg.1	C20orf194	NM_001009984	1.566055417	0.030230235
TC0X001544.hg.1	MPP1	NM_001166460	1.565374851	0.012078174
TC20000920.hg.1	PREX1	NM_020820	1.564140916	0.016988665
TC17001617.hg.1			1.561806917	0.025832813
TC20000333.hg.1	TTPAL	NM_001039199	1.558508277	0.014956389
TC02000315.hg.1	SPTBN1	NM_003128	1.557424307	0.037076153
TC01000837.hg.1	LRRRC8B	NM_001134476	1.556092739	0.042928383
TC14001474.hg.1	CLMN	NM_024734	1.554048538	0.018120211
TC15000456.hg.1	GCNT3	NM_004751	1.553201795	0.012458527
TC01001740.hg.1	CR1L	NM_175710	1.552442789	0.013395036
TC05001906.hg.1	PPP2R2B	NM_001127381	1.550522327	0.015170173
TC06000949.hg.1	FABP7	NM_001446	1.549923658	0.024559965
TC0X000792.hg.1	VAMP7	NM_001145149	1.549792767	0.03420005
TC03002106.hg.1	LEPREL1	NM_001134418	1.548669815	0.021076508
TC06001854.hg.1	LMBRD1	NM_018368	1.547796249	0.029677523
TC17001808.hg.1	GNA13	NM_006572	1.547772765	0.017945675
TC22000073.hg.1	SNAP29	NM_004782	1.546880841	0.034621239
TC03000595.hg.1	GAP43	NM_001130064	1.546615005	0.033876557
TC02002399.hg.1	ZEB2	NM_001171653	1.546411633	0.013145695
TC05000134.hg.1	C5orf22	NM_018356	1.545454025	0.022908052
TC06002265.hg.1	EZR	NM_001111077	1.544707417	0.01781402
TC12001485.hg.1	FAIM2	NM_012306	1.543509126	0.025521897
TC04001197.hg.1	SCFD2	NM_152540	1.542994022	0.027573211
TC09001287.hg.1	AGTPBP1	NM_015239	1.540227175	0.017829766
TC6_mann_hap4000158.hg.1			1.539963484	0.032332443
TC6_mcf_hap5000168.hg.1			1.539963484	0.032332443
TC6_ssto_hap7000162.hg.1			1.539963484	0.032332443
TC06001189.hg.1	SMOC2	NM_001166412	1.53936708	0.022076977
TC05001455.hg.1	NAIP	NM_004536	1.539058805	0.015748983
TC04001517.hg.1	BBS7	NM_018190	1.536269665	0.027255591
TC19000729.hg.1	CD37	NM_001040031	1.536110759	0.014213191
TC09002903.hg.1	TMEFF1	NM_003692	1.534916639	0.02982731

TC01006281.hg.1	AGT	NM_000029	1.534456015	0.029207474
TC10000066.hg.1	ITIH2	NM_002216	1.534218669	0.031991001
TC01003112.hg.1	POLR3C	NM_006468	1.534064531	0.037937805
TC04000458.hg.1	COPS4	NM_016129	1.534040213	0.036879193
TC04001116.hg.1	RELL1	NM_001085399	1.533650875	0.026616743
TC02001273.hg.1	PKI55	NR_037701	1.533402443	0.039418314
TC02002733.hg.1	LANCL1	NM_001136574	1.53252244	0.024071544
TC01001357.hg.1	SLAMF8	NM_020125	1.532229662	0.014481062
TC18000585.hg.1	MBP	NM_001025081	1.532116652	0.036351211
TC02000978.hg.1	GCA	NM_012198	1.531497002	0.042477299
TC01000781.hg.1	ST6GALNAC3	NM_001160011	1.529477596	0.019298078
TC05001687.hg.1	PGGT1B	NM_005023	1.527739048	0.040962845
TC13000843.hg.1	TMTC4	NM_001079669	1.524960995	0.018769972
TC17002865.hg.1	TNFSF13	NM_001198622	1.52391541	0.044774987
TC14000568.hg.1	CPSF2	NM_017437	1.52206099	0.036641743
TC17000328.hg.1	SNORD4B	NR_000009	1.521878362	0.045752451
TC10000177.hg.1	GPR158	NM_020752	1.521777749	0.022548562
TC04000870.hg.1	SPCS3	NM_021928	1.519522071	0.040728439
TC0X000133.hg.1	IL1RAPL1	NM_014271	1.518389463	0.035740927
TC14001432.hg.1	TTC7B	NM_001010854	1.517631412	0.041273884
TC02000284.hg.1	RHOQ	NM_012249	1.517389059	0.018048316
TC01002992.hg.1	KCND3	NM_004980	1.513391256	0.021192549
TC05001166.hg.1	CTNND2	NM_001332	1.511682987	0.029068369
TC02002411.hg.1			1.510168791	0.022105027
TC10000623.hg.1	PTEN	NM_000314	1.510165334	0.019812282
TC0X000255.hg.1	RBM3	NM_006743	1.508688211	0.029952489
TC01000979.hg.1	RAP1A	NM_001010935	1.505979419	0.023699734
TC14001237.hg.1	ATP6V1D	NM_015994	1.505488634	0.026613105
TC0X000992.hg.1	SLC9A7	NM_032591	1.502134681	0.023532903
TC01002741.hg.1	JAK1	NM_002227	1.501065731	0.018116008
TC02001152.hg.1	PLCL1	NM_006226	1.501034975	0.038480047
TC07001004.hg.1	GIMAP4	NM_018326	1.501013517	0.034158282
TC02002605.hg.1	CALCRL	NM_005795	1.500473499	0.039479077

BM vs. non-BM down-regulated

TC14002240.hg.1	IGHD3-3		-10.44909	6.94915E-05
TC14002257.hg.1	IGHV3-23		-6.81994057	5.80725E-05
TC10000569.hg.1	SFTPA1	NM_001093770	-6.51824665	0.010722174
TC10001454.hg.1	SFTPA2	NM_001098668	-6.15827847	0.006891925
TC09000302.hg.1			-5.02286577	0.031550236
TC16000397.hg.1			-4.01820135	0.019196469
TC07001611.hg.1	TFPI2	NM_006528	-3.86331964	0.012023821
TC09001118.hg.1			-3.67511535	0.001332815
TC09001145.hg.1			-3.67511535	0.001332815
TC16002057.hg.1	HP	NM_001126102	-3.6581924	0.000854862

TC16000387.hg.1			-3.53290319	0.027212117
TC10000890.hg.1	DMBT1	NM_004406	-3.51778126	0.002745621
TC14002214.hg.1			-3.33932018	0.048593722
TC19000570.hg.1	CYP2B7P1	NR_001278	-3.21393108	0.007744411
TC14002278.hg.1	IGHV3-64		-3.20637155	0.003802004
TC22000117.hg.1			-3.16514158	0.004373582
TC22000119.hg.1	IGLV2-18		-3.10156965	0.003198268
TC22000122.hg.1			-3.08680391	0.013447022
TC16001073.hg.1			-3.03188491	0.000625602
TC14002248.hg.1	IGHV1-8		-2.97683764	0.009384476
TC07001168.hg.1	OTTHUMG00000152731		-2.96574426	0.004929034
TC22001449.hg.1	IGLC7		-2.9064095	0.005272385
TC02004983.hg.1	IGKV3D-15		-2.84257483	0.024265211
TC14002277.hg.1	IGHV4-61		-2.83298922	0.001450661
TC14002213.hg.1	IGHM		-2.78915548	0.013566842
TC07001164.hg.1	AGR3	NM_176813	-2.77971125	0.037090842
TC17000752.hg.1			-2.74191856	0.006303644
TC17001046.hg.1			-2.74191856	0.006303644
TC02004986.hg.1	IGKV3D-11		-2.71760368	0.033486787
TC14002272.hg.1	IGHV3-49		-2.68802786	0.002092367
TC15000503.hg.1			-2.65854311	0.011012322
TC07001167.hg.1	OTTHUMG00000152727		-2.64041805	0.007520755
TC02000531.hg.1			-2.63096786	0.04201572
TC14002274.hg.1	IGHV3-53		-2.62619114	0.003545584
TC14002283.hg.1	IGHV3-73		-2.62350965	0.004512087
TC14002215.hg.1	IGHJ5		-2.61661553	0.001103382
TC16000395.hg.1			-2.61463928	0.002841879
TC14002228.hg.1	IGHD3-16		-2.61157751	0.005466129
TC14002249.hg.1	IGHV3-9		-2.59311509	0.028693583
TC04001218.hg.1	RNA5SP162		-2.58882809	0.017977068
TC15001041.hg.1			-2.58207035	0.0258194
TC22000120.hg.1			-2.57942796	0.005306454
TC16000385.hg.1			-2.57388043	0.000613713
TC14002286.hg.1	IGHV7-81		-2.53153849	0.038440868
TC16000398.hg.1			-2.52978873	0.000662678
TC14002252.hg.1	IGHV3-15		-2.50568295	0.002317519
TC14002279.hg.1	IGHV3-66		-2.49658465	0.001408647
TC12001846.hg.1			-2.49610353	0.013905831
TC05000957.hg.1	SNORA74B	NR_002988	-2.49124336	0.005765344
TC14002260.hg.1	LOC100653243		-2.47140956	0.000674544
TC11002234.hg.1	MMP1	NM_001145938	-2.47020102	0.002091383
TC02000559.hg.1	IGKV3D-7		-2.4570682	0.004201347
TC11002391.hg.1	SNORD14E		-2.44575739	0.041544039
TC22001440.hg.1	IGLV7-43		-2.41475177	0.031016452

TC15001409.hg.1			-2.40454912	0.001326029
TC12002039.hg.1	RNU4-2		-2.39751124	0.014769065
TC22000124.hg.1			-2.38877416	0.000851777
TC02004980.hg.1	IGKV3D-20		-2.34119916	0.020224361
TC15000386.hg.1	FGF7	NM_002009	-2.3309803	0.002984303
TC09000561.hg.1	MIR4668	NR_039814	-2.32659364	0.002595749
TC14002266.hg.1	IGHV3-38		-2.32321262	0.00099291
TC02002076.hg.1	IGKV3-7		-2.30713654	0.034244753
TC14002246.hg.1	IGHV2-5		-2.28794241	0.005056044
TC14002256.hg.1	IGHV3-21		-2.28764081	0.002264519
TC14002269.hg.1	IGHV1-45		-2.27362561	0.009507497
TC02004944.hg.1	IGKV2-24		-2.26493859	0.008154629
TC14002229.hg.1	IGHD2-15		-2.25873971	0.008154557
TC07000478.hg.1	SNORA14A	NR_002955	-2.24611068	0.035098467
TC21000524.hg.1			-2.23999429	0.003983
TC02000550.hg.1	IGKV4-1		-2.23716569	0.036265243
TC22000111.hg.1	IGLV2-33		-2.23021126	0.003779675
TC16001072.hg.1			-2.21862936	0.011858631
TC15001692.hg.1	LINC00597	NR_026813	-2.20957422	0.033277858
TC22001439.hg.1	IGLV7-46		-2.19879127	0.030903494
TC11001662.hg.1			-2.18227005	0.008267349
TC16000388.hg.1			-2.15964913	0.002304442
TC14002247.hg.1	IGHV3-7		-2.13051438	0.005178431
TC02000188.hg.1	SNORD92	NR_003074	-2.12596035	0.003121671
TC02002500.hg.1	SCN7A	NM_002976	-2.11685944	0.015618229
TC16000396.hg.1			-2.11284018	0.003649434
TC14002280.hg.1	IGHV1-69		-2.10805297	0.046477467
TC14002264.hg.1	IGHV4-34		-2.09493089	0.003383369
TC11001652.hg.1			-2.08519197	0.011297316
TC06001612.hg.1			-2.08134079	0.043213554
TC15000519.hg.1			-2.08102655	0.008111575
TC14002261.hg.1	IGHV3-30		-2.06825662	0.011498257
TC16001155.hg.1	SNORA46	NR_002978	-2.05498838	0.01378495
TC19001411.hg.1			-2.04091191	0.002661267
TC15001903.hg.1			-2.04048157	0.008254077
TC14002250.hg.1	IGHV3-11		-2.03540421	0.001997651
TC01001602.hg.1	HMCN1	NM_031935	-2.0338037	0.027064215
TC19000595.hg.1			-2.02830696	0.03133421
TC15000547.hg.1			-2.01915622	0.023452541
TC15001961.hg.1			-2.0185976	0.031207778
TC14002271.hg.1	IGHV3-48		-2.01375699	0.002873361
TC15001375.hg.1			-2.01056743	0.016789248
TC16000386.hg.1			-1.99829125	0.012581823
TC14002245.hg.1	IGHV1-3		-1.99810171	0.007273735

TC19000307.hg.1			-1.99762106	0.005415105
TC05001097.hg.1	MIR4456	NR_039661	-1.9874593	0.008030096
TC11001594.hg.1			-1.97858357	0.037110407
TC19001313.hg.1			-1.96689081	0.029836338
TC14002209.hg.1			-1.95986676	0.009130568
TC15001927.hg.1			-1.95330286	0.020996779
TC01000787.hg.1	RNA5SP20		-1.93865132	0.010833525
TC02002586.hg.1	MIR4437	NR_039637	-1.91910982	0.009298712
TC15000999.hg.1			-1.91317189	0.004797794
TC15000559.hg.1			-1.91182172	0.007638981
TC02000555.hg.1	IGKV2D-24		-1.91101933	0.037110861
TC06001473.hg.1			-1.90883017	0.032205798
TC12002040.hg.1	RNU4-1		-1.90868378	0.033027902
TC22000742.hg.1			-1.90821576	0.019610722
TC16000454.hg.1	MMP2	NM_001127891	-1.90075529	0.040175922
TC14002267.hg.1	IGHV4-39		-1.89826596	0.040686753
TC01002542.hg.1	SNORA55	NR_002983	-1.89721286	0.031100513
TC02000547.hg.1	ANKRD36BP2	NR_015424	-1.894539	0.037130341
TC03001048.hg.1	IL1RAP		-1.88107538	0.003591427
TC10000533.hg.1			-1.87592649	0.029673105
TC10001399.hg.1			-1.87584031	0.037236173
TC12001586.hg.1			-1.87546825	0.015014423
TC14002262.hg.1	IGHV4-31		-1.87018633	0.031865921
TC21000280.hg.1			-1.86942625	0.041832831
TC08001549.hg.1			-1.86385143	0.023169262
TC14000798.hg.1	SNORA28	NR_002964	-1.8623507	0.015750714
TC09001184.hg.1	PGM5-AS1	NR_015423	-1.86097419	0.011661707
TC07001814.hg.1	RNF133	NM_139175	-1.8578881	0.016086077
TC02002124.hg.1			-1.85627174	0.012277803
TC12001996.hg.1	TBX5	NM_000192	-1.85304546	0.003891903
TC08001226.hg.1			-1.8487699	0.037897427
TC02004947.hg.1	IGKV2-29		-1.84693456	0.005972757
TC06001484.hg.1	MAS1L		-1.84448528	0.004022618
TC6_apd_hap1000059.hg.1	MAS1L		-1.84448528	0.004022618
TC6_cox_hap2000121.hg.1	MAS1L		-1.84448528	0.004022618
TC6_dbb_hap3000110.hg.1	MAS1L		-1.84448528	0.004022618
TC6_mann_hap4000099.hg.1	MAS1L		-1.84448528	0.004022618
TC6_mcf_hap5000103.hg.1	MAS1L		-1.84448528	0.004022618
TC6_qbl_hap6000111.hg.1	MAS1L		-1.84448528	0.004022618
TC6_ssto_hap7000103.hg.1	MAS1L		-1.84448528	0.004022618
TC07001811.hg.1	AASS	NM_005763	-1.83997822	0.011858778
TC03001177.hg.1			-1.83308578	0.006845045
TC07000771.hg.1			-1.82827055	0.004430947
TC0X000185.hg.1			-1.82827055	0.004430947

TC10000534.hg.1			-1.82827055	0.004430947
TC16000856.hg.1			-1.82827055	0.004430947
TC14001396.hg.1			-1.82778478	0.013036409
TC17000412.hg.1			-1.82708895	0.017556407
TC17000419.hg.1			-1.82708895	0.017556407
TC17000426.hg.1			-1.82708895	0.017556407
TC11001601.hg.1			-1.82665062	0.007153932
TC09000750.hg.1	SNORD62B	NR_002914	-1.81787825	0.028808793
TC09000751.hg.1	SNORD62B		-1.81787825	0.028808793
TC01003537.hg.1	RNA5SP68		-1.81603634	0.028805619
TC15000480.hg.1			-1.81334448	0.012695662
TC09001250.hg.1			-1.81056929	0.006296045
TC16002058.hg.1	HPR	NM_020995	-1.80902004	0.005559274
TC02000554.hg.1	IGKV2D-26		-1.80201173	0.03928094
TC19001320.hg.1			-1.79465747	0.012265882
TC12000599.hg.1	IFNG-AS1		-1.794065	0.03320488
TC02000553.hg.1	IGKV2D-29		-1.79250085	0.007504141
TC22000479.hg.1	MIR648	NR_030378	-1.79248369	0.006231277
TC07003320.hg.1	GLCC1	NM_138426	-1.78692734	0.046142947
TC09000164.hg.1			-1.78605413	0.023321582
TC19001897.hg.1			-1.78594899	0.020745631
TC14002265.hg.1	IGHV3-35		-1.78547215	0.011648837
TC11001620.hg.1			-1.7852385	0.020979363
TC17000432.hg.1			-1.78515112	0.02302224
TC17000455.hg.1			-1.78515112	0.02302224
TC17000733.hg.1			-1.78515112	0.02302224
TC17000751.hg.1			-1.78515112	0.02302224
TC17001416.hg.1			-1.78515112	0.02302224
TC01003129.hg.1	GJA5	NM_005266	-1.7793318	0.021066722
TC01001406.hg.1			-1.77907062	0.014746821
TC0X001082.hg.1	XAGE-4		-1.77564931	0.017376855
TC11001618.hg.1			-1.77233362	0.016608464
TC07001353.hg.1	SNORA5C	NR_002991	-1.77048588	0.041697025
TC07001902.hg.1			-1.76729012	0.004296443
TC03000944.hg.1	LINC00578		-1.7664609	0.008227192
TC14002268.hg.1	IGHV3-43		-1.76470673	0.004329305
TC18000574.hg.1	CYB5A	NM_001190807	-1.76243114	0.047290396
TC14002282.hg.1	IGHV3-72		-1.7618289	0.006359541
TC22000556.hg.1			-1.76092184	0.008788522
TC08001589.hg.1			-1.75966048	0.008503781
TC13000540.hg.1			-1.75841463	0.009365384
TC10000162.hg.1	RNA5SP304		-1.75756335	0.019401316
TC06001156.hg.1	SLC22A3	NM_021977	-1.75483286	0.028296443
TC14002276.hg.1	IGHV4-59		-1.75273395	0.008409887

TC12001706.hg.1			-1.75261235	0.010740499
TC02004950.hg.1	IGKC		-1.75057852	0.010722471
TC02000220.hg.1	RNA5SP92		-1.74944997	0.005006613
TC12000309.hg.1	LRRK2	NM_198578	-1.7458266	0.010496608
TC05001881.hg.1			-1.74253607	0.042700969
TC06001646.hg.1			-1.738855	0.006846777
TC0X000232.hg.1			-1.7388525	0.014588004
TC19000963.hg.1	RNA5SP473		-1.73480916	0.033080582
TC16001071.hg.1	IGHV3OR16-7		-1.73047519	0.009999281
TC06002131.hg.1	OTTHUMG00000015621		-1.72829163	0.009101613
TC10000505.hg.1			-1.7272346	0.043822296
TC09001626.hg.1	MIR3154	NR_036110	-1.72672832	0.014134569
TC0X000761.hg.1	HCFC1-AS1		-1.72535121	0.036474045
TC11001651.hg.1			-1.72421765	0.007469246
TC03001383.hg.1	MIR711	NR_031756	-1.72318435	0.048940238
TC04000606.hg.1			-1.72143221	0.027757088
TC15000895.hg.1			-1.71914196	0.014162214
TC19000304.hg.1			-1.71817255	0.046738673
TC06001954.hg.1			-1.71814561	0.021614298
TC02000202.hg.1			-1.71650469	0.018590644
TC11001709.hg.1			-1.71643257	0.015989285
TC16000269.hg.1			-1.7138555	0.013572696
TC19001109.hg.1	MBD3L4	NM_001164419	-1.7092948	0.010486144
TC14002253.hg.1	IGHV3-16		-1.70874572	0.040303063
TC11000333.hg.1	CD44		-1.70841599	0.018110996
TC07000726.hg.1	CFTR	NM_000492	-1.70791388	0.027127791
TC14002216.hg.1	IGHJ1		-1.70650625	0.046167921
TC22000686.hg.1	RNA5SP497		-1.7034142	0.007686453
TC02002686.hg.1			-1.7027545	0.008029815
TC11001491.hg.1	RNA5SP336		-1.70047331	0.037045743
TC14000122.hg.1	TRAJ59		-1.69521856	0.030659476
TC06000496.hg.1			-1.69416881	0.011456681
TC19001326.hg.1			-1.69049168	0.030100102
TC14002258.hg.1	IGHA2		-1.68007052	0.014515953
TC01004044.hg.1	OTTHUMG00000150375		-1.67988515	0.008456546
TC15001789.hg.1			-1.67824411	0.024958406
TC0X001022.hg.1			-1.67676973	0.010955143
TC0X000153.hg.1			-1.67502666	0.007064488
TC08001608.hg.1			-1.67433858	0.03028167
TC0X000057.hg.1	EGFL6	NM_001167890	-1.67378199	0.013409541
TC6_mann_hap4000217.hg.1	HCG27		-1.67324102	0.028325552
TC19001175.hg.1			-1.67046046	0.010822486
TC02000698.hg.1	OTTHUMG00000153690		-1.67045903	0.033091605
TC15001897.hg.1			-1.6693511	0.007860071

TC07000218.hg.1	OTTHUMG00000156245		-1.66930664	0.015748929
TC09001260.hg.1			-1.66853571	0.034940258
TC07001621.hg.1			-1.66806877	0.021154327
TC09000934.hg.1	SCARNA8	NR_003009	-1.66743982	0.009169239
TC02004979.hg.1	IGKV1D-27		-1.66502213	0.016896464
TC22000108.hg.1	IGLV5-37		-1.66290033	0.036054496
TC15001405.hg.1			-1.66226459	0.01967953
TC10000553.hg.1			-1.66183829	0.028898463
TC11001630.hg.1			-1.66021538	0.01331262
TC06001296.hg.1	RNA5SP204		-1.65939856	0.027133156
TC19001322.hg.1			-1.65793872	0.019667028
TC21000419.hg.1			-1.65471864	0.017753698
TC15001311.hg.1			-1.6542089	0.031178189
TC07000186.hg.1			-1.65372241	0.0096065
TC18000456.hg.1	MIR187	NR_029616	-1.65149438	0.009279876
TC08000113.hg.1	RNA5SP255		-1.65099716	0.035090648
TC11000049.hg.1	KRTAP5-6	NM_001012416	-1.64770174	0.039644174
TC11000628.hg.1	MIR612	NR_028272	-1.64724982	0.03875931
TC14002281.hg.1	IGHV2-70		-1.64697325	0.026966805
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