

Supplement Table2. Down-regulated lncRNAs

lncRNAs	logFC	logCPM	PValue	FDR
IL12A-AS1	-3.49995	5.082463	5.43E-52	5.67E-48
AP001107.5	-3.37616	6.17965	1.05E-44	5.48E-41
AC087521.1	-2.74503	4.915204	6.39E-43	2.22E-39
AP001267.3	-2.03442	5.577395	2.46E-42	6.42E-39
AC116407.1	-2.33659	6.071172	2.47E-38	5.15E-35
AC018742.1	-3.98495	3.449417	6.88E-38	1.20E-34
ADAMTS9-AS1	-2.69508	6.435753	2.35E-37	3.50E-34
UBXN10-AS1	-3.09417	6.082288	6.08E-36	7.93E-33
AC011472.4	-2.11909	5.072517	6.29E-34	7.30E-31
LINC00671	-2.91649	4.316645	8.78E-34	9.16E-31
AC091230.1	-3.69931	3.145479	4.03E-33	3.82E-30
HNF4A-AS1	-2.64738	6.331666	1.72E-32	1.50E-29
AP001065.1	-2.63755	4.927478	1.18E-31	9.50E-29
PGM5-AS1	-3.82793	6.693005	9.88E-31	6.88E-28
LRRC3-DT	-3.11457	3.331236	1.47E-30	9.05E-28
HCG22	-4.45606	7.289675	1.67E-30	9.67E-28
AC025280.1	-2.69275	3.724247	1.79E-30	9.83E-28
LINC02158	-2.32885	4.096954	2.28E-30	1.19E-27
TMEM220-AS1	-2.19	6.840355	5.25E-30	2.49E-27
C5orf66-AS1	-3.371	7.318578	1.04E-29	4.72E-27
LINC01697	-2.94786	5.67649	5.78E-29	2.41E-26
NALT1	-2.58518	6.437048	2.26E-28	9.06E-26
AL136982.6	-3.33377	3.178284	6.22E-28	2.41E-25
AC097103.1	-2.98787	2.535666	3.04E-27	1.13E-24
CDKN2B-AS1	-2.74508	7.210176	3.13E-27	1.13E-24
ADAMTS9-AS2	-2.39515	7.119781	2.94E-26	1.02E-23
LINC01055	-2.64679	4.576498	4.14E-26	1.39E-23
AC103563.7	-3.68911	4.082554	4.40E-26	1.44E-23
AC022081.1	-4.24095	2.132138	2.13E-25	6.17E-23
AP000721.2	-2.734	3.627124	2.69E-25	7.59E-23
AC012085.2	-2.27836	5.18331	3.21E-25	8.82E-23
AL357054.4	-2.04638	7.15771	5.16E-25	1.35E-22
MEF2C-AS1	-2.22081	5.640232	1.01E-24	2.44E-22
AC115619.1	-5.36841	5.348245	1.04E-24	2.47E-22
AC007920.1	-3.974	3.356503	2.20E-24	5.10E-22
PRDM16-DT	-2.51654	9.320037	9.85E-24	2.24E-21
AC011374.1	-3.51351	4.177971	1.98E-23	4.39E-21
DIRC3	-2.02198	5.157903	4.54E-23	9.67E-21
AC092422.1	-2.72796	3.517985	4.69E-23	9.78E-21
LHX5-AS1	-4.53367	2.262883	5.05E-23	1.03E-20
LINC00844	-3.06278	2.139112	9.18E-23	1.78E-20

LINC01634	-2.54096	3.144381	9.45E-23	1.79E-20
CERS3-AS1	-3.00768	3.246023	3.04E-22	5.47E-20
LINC02471	-4.20436	3.007084	3.49E-22	6.17E-20
AC110491.1	-3.5912	3.986696	9.40E-22	1.61E-19
LINC00955	-4.12166	5.21188	1.08E-21	1.81E-19
AC015908.3	-2.09152	5.414652	1.18E-21	1.96E-19
FLG-AS1	-2.36011	5.790142	1.36E-21	2.21E-19
AC008406.3	-2.35937	4.355876	2.52E-21	4.04E-19
RBMS3-AS3	-2.37752	3.692879	4.91E-21	7.53E-19
AC104024.1	-2.35015	3.846599	7.51E-21	1.12E-18
LINC00582	-2.45978	4.167249	7.51E-21	1.12E-18
AC244205.1	-2.69186	5.175535	9.00E-21	1.32E-18
AC103740.1	-2.38627	7.347652	1.65E-20	2.33E-18
AC093159.1	-2.45205	3.258568	2.09E-20	2.88E-18
FALEC	-2.10404	4.286922	2.14E-20	2.91E-18
AL021026.1	-2.87682	3.441369	3.15E-20	4.11E-18
CISTR	-3.17455	2.406443	3.71E-20	4.79E-18
LINC02200	-3.639	2.319983	4.71E-20	6.00E-18
PCAT18	-3.21913	5.400085	4.88E-20	6.13E-18
AC051619.8	-3.17824	2.860092	8.75E-20	1.07E-17
LINC02106	-2.69782	4.429701	1.33E-19	1.60E-17
MRGPRF-AS1	-2.48463	4.043389	2.39E-19	2.78E-17
AL139393.2	-4.24638	2.579872	3.53E-19	4.05E-17
AP003037.1	-5.34073	2.580762	4.26E-19	4.83E-17
AC104699.1	-2.09999	5.658981	6.95E-19	7.72E-17
GAS1RR	-2.31186	5.68129	1.17E-18	1.28E-16
LINC02621	-3.62671	2.854457	1.18E-18	1.29E-16
AC083902.1	-3.27231	2.676677	1.71E-18	1.82E-16
LINC02487	-2.79708	7.60872	2.35E-18	2.43E-16
LINC00365	-2.47688	7.705681	3.04E-18	3.06E-16
LINC00330	-3.12973	5.104642	3.53E-18	3.51E-16
AC036108.3	-2.48165	7.598412	4.27E-18	4.20E-16
AC015908.2	-2.07128	3.997187	4.53E-18	4.42E-16
LINC02560	-3.18176	5.142854	8.10E-18	7.69E-16
NCOA7-AS1	-2.33465	3.313821	2.52E-17	2.24E-15
AP000802.1	-2.51553	3.516302	3.15E-17	2.78E-15
MIR1-1HG-AS1	-2.73998	6.884429	6.19E-17	5.28E-15
ARHGEF26-AS1	-2.27835	5.533535	6.22E-17	5.28E-15
AC133485.2	-4.61216	3.505982	7.09E-17	5.97E-15
AC023090.1	-2.62376	7.070768	7.96E-17	6.65E-15
AC007182.1	-2.73409	4.888059	8.65E-17	7.16E-15
HAND2-AS1	-2.96089	10.16122	9.68E-17	7.90E-15
AC084030.1	-3.91466	2.211068	9.96E-17	8.06E-15
LINC01082	-2.15749	6.144947	2.02E-16	1.59E-14

PPM1K-DT	-2.12399	3.512327	2.52E-16	1.93E-14
AC233266.2	-2.43634	4.122766	3.45E-16	2.56E-14
AC246793.1	-2.66193	3.209822	4.31E-16	3.10E-14
AC008808.2	-2.12658	5.671201	5.36E-16	3.81E-14
AC008268.1	-3.631	4.199435	5.81E-16	4.10E-14
AC006007.1	-3.65753	2.819426	6.41E-16	4.46E-14
LINC00682	-2.57986	2.627739	1.07E-15	7.20E-14
AC004637.1	-2.09609	3.731449	1.16E-15	7.74E-14
AL135924.2	-2.4978	4.117317	1.39E-15	9.27E-14
PART1	-2.37827	8.830405	1.75E-15	1.15E-13
AL589986.2	-3.16109	2.821862	1.99E-15	1.29E-13
AP003396.3	-2.26956	2.670177	3.17E-15	2.00E-13
LINC02490	-3.26546	3.333778	3.47E-15	2.17E-13
AC005722.3	-2.61272	3.329943	4.85E-15	2.89E-13
AC027807.2	-2.27653	3.050261	5.02E-15	2.98E-13
AC002398.2	-2.7575	4.957806	5.63E-15	3.32E-13
AC116337.3	-2.18409	3.354172	7.59E-15	4.33E-13
BARX1-DT	-2.31329	6.13874	7.83E-15	4.44E-13
AC105398.1	-2.86797	2.014596	8.33E-15	4.70E-13
AL359979.1	-3.16601	2.499749	8.43E-15	4.73E-13
AC079305.3	-2.17901	2.698573	1.01E-14	5.57E-13
AL033380.1	-3.1088	2.213374	2.38E-14	1.24E-12
LINC01497	-2.9948	2.69879	2.42E-14	1.25E-12
AC010980.1	-2.1713	5.251518	3.14E-14	1.61E-12
AC021242.2	-3.10241	3.154766	3.52E-14	1.77E-12
BVES-AS1	-2.20279	4.873007	3.61E-14	1.80E-12
AC005532.1	-2.26135	6.133809	4.32E-14	2.12E-12
AC012055.1	-3.18473	2.799532	4.81E-14	2.33E-12
LINC02268	-2.70054	4.604724	5.56E-14	2.65E-12
AC135586.2	-2.01593	2.463632	7.00E-14	3.26E-12
AC138430.1	-2.13083	3.310247	7.33E-14	3.40E-12
FRMD6-AS2	-2.40357	3.253101	8.57E-14	3.96E-12
AP000915.1	-2.23109	2.368293	1.04E-13	4.75E-12
LINC02177	-2.31297	4.771556	1.18E-13	5.38E-12
AL121796.1	-3.34921	2.258399	1.46E-13	6.50E-12
OSTN-AS1	-2.19792	3.816661	1.56E-13	6.94E-12
AC092834.1	-2.53718	3.873881	2.84E-13	1.22E-11
AC055874.1	-3.03568	2.632517	3.38E-13	1.44E-11
AL391807.1	-2.00666	4.310677	4.10E-13	1.72E-11
AL513217.1	-2.53152	3.946352	4.65E-13	1.95E-11
AC002511.1	-2.03113	4.201866	5.05E-13	2.10E-11
AL353997.2	-2.13124	3.931536	6.08E-13	2.51E-11
AC124852.1	-2.29866	3.722353	6.46E-13	2.63E-11
MPPED2-AS1	-2.70923	2.967265	6.51E-13	2.64E-11

AC090618.1	-2.08006	2.528422	6.98E-13	2.82E-11
AC244230.1	-3.60474	2.147349	8.93E-13	3.54E-11
AC092691.1	-2.64904	2.965726	1.02E-12	3.98E-11
CARMN	-2.0117	10.62265	1.03E-12	4.00E-11
AC093583.1	-2.08311	5.899762	1.36E-12	5.11E-11
AC002546.1	-2.20839	3.564164	1.42E-12	5.32E-11
AC084880.3	-2.32399	2.696221	1.45E-12	5.40E-11
AC009123.1	-3.30529	3.161844	1.48E-12	5.48E-11
AF001548.1	-2.30836	6.276247	2.47E-12	8.75E-11
AC093607.1	-2.43359	3.369057	2.52E-12	8.89E-11
AC108861.1	-2.58362	2.226633	5.75E-12	1.91E-10
CHL1-AS2	-2.27759	3.416089	7.28E-12	2.38E-10
AC005906.2	-2.76512	2.924565	8.48E-12	2.73E-10
IL20RB-AS1	-2.16525	2.753107	8.84E-12	2.81E-10
LINC02404	-3.04117	8.060203	1.05E-11	3.32E-10
MKX-AS1	-2.37552	2.88026	1.16E-11	3.59E-10
AC110619.1	-2.26119	5.5908	1.42E-11	4.33E-10
AP001554.1	-2.78134	3.268946	2.01E-11	5.94E-10
AL162511.1	-2.78627	3.465318	2.05E-11	6.04E-10
LINC02557	-2.7259	2.092773	2.65E-11	7.53E-10
AC112236.1	-2.50294	3.539002	2.74E-11	7.68E-10
AC104971.3	-2.06287	3.312068	2.76E-11	7.69E-10
AL031429.2	-2.02253	3.230001	2.76E-11	7.69E-10
PTCHD1-AS	-2.50726	2.438958	2.86E-11	7.95E-10
AL357153.1	-2.20758	4.276321	3.57E-11	9.82E-10
AL033384.1	-2.02433	5.52612	4.11E-11	1.13E-09
LINC01579	-2.0284	7.181708	4.69E-11	1.27E-09
AC099684.2	-2.43207	5.47366	5.17E-11	1.38E-09
SOX21-AS1	-2.51565	9.158742	5.84E-11	1.54E-09
AL139393.1	-2.31929	2.60144	7.04E-11	1.82E-09
AC092667.1	-2.19794	3.378185	8.93E-11	2.28E-09
LINC00551	-2.30347	2.655604	1.46E-10	3.56E-09
AC005165.1	-2.05871	6.732346	2.16E-10	5.11E-09
AC246787.2	-2.17771	3.900297	2.74E-10	6.44E-09
LINC00332	-2.74716	2.71331	3.52E-10	8.08E-09
NKAIN3-IT1	-2.03469	6.101606	4.45E-10	1.00E-08
CALML3-AS1	-2.32446	6.480505	4.72E-10	1.05E-08
AC093702.1	-2.45122	3.445351	5.48E-10	1.20E-08
LINC00940	-2.09387	3.737787	6.53E-10	1.39E-08
AC012178.1	-2.44267	2.351664	6.74E-10	1.43E-08
LINC01644	-2.00759	4.655799	7.65E-10	1.60E-08
AC079467.1	-2.24932	2.563545	8.46E-10	1.76E-08
AL161457.1	-2.18745	3.07993	8.62E-10	1.79E-08
PDZRN3-AS1	-2.02496	2.532102	1.15E-09	2.32E-08

DIO2-AS1	-2.30915	2.499004	1.38E-09	2.74E-08
AP003500.2	-2.75164	2.787248	1.40E-09	2.77E-08
AC126121.3	-2.48415	2.052952	1.91E-09	3.68E-08
AC053503.4	-2.43902	4.972278	2.19E-09	4.12E-08
AL023754.1	-2.85779	3.226819	2.35E-09	4.37E-08
AC116312.1	-2.21728	2.064918	2.42E-09	4.47E-08
AC026391.1	-2.07923	2.133738	2.74E-09	4.99E-08
LINC01100	-2.66716	2.255242	3.22E-09	5.79E-08
AC103563.2	-3.16051	4.540999	5.20E-09	8.94E-08
AC008808.1	-2.09079	2.509868	5.28E-09	9.02E-08
LINC02310	-2.67317	2.331182	5.75E-09	9.74E-08
MIR1-1HG	-2.2695	2.907406	7.41E-09	1.23E-07
DSG1-AS1	-2.40872	5.633605	1.13E-08	1.80E-07
AC097625.1	-2.34502	2.555447	1.25E-08	1.95E-07
AC009229.1	-2.20185	2.317207	1.34E-08	2.07E-07
AC093390.1	-2.00167	2.733558	3.31E-08	4.66E-07
LINC01214	-2.471	2.87299	3.67E-08	5.12E-07
AC007126.1	-2.17038	2.629646	3.75E-08	5.22E-07
AC104407.1	-2.62047	2.478339	5.79E-08	7.58E-07
AL928742.1	-2.00885	6.581927	6.06E-08	7.82E-07
LINC02269	-2.13707	3.175188	7.01E-08	8.89E-07
AC012558.1	-2.08595	2.045016	8.82E-08	1.09E-06
AC087379.2	-2.50907	2.988378	1.34E-07	1.59E-06
AL079303.1	-2.66419	4.610611	1.35E-07	1.59E-06
AP001360.2	-2.41685	2.000195	1.56E-07	1.81E-06
VSTM2A-OT1	-2.11722	2.22304	1.57E-07	1.81E-06
AC090531.1	-2.16638	2.220309	1.62E-07	1.87E-06
AC142086.1	-2.7935	2.072522	1.84E-07	2.09E-06
AC026774.1	-2.12816	2.132112	1.71E-06	1.46E-05
MIR205HG	-2.98367	8.444615	2.69E-06	2.18E-05
AC105389.3	-2.4024	1.997088	4.18E-06	3.18E-05
AC069228.1	-2.0352	3.450529	1.46E-05	9.61E-05
AC116609.3	-2.03612	2.252951	5.62E-05	0.000302