

Table S1 The top 25 RNAs for upregulated and downregulated genes

Upregulated genes			
lncRNA			
Symbol	ENSG	log2 Fold Change	Padj
MIR205HG	ENSG00000230937	5.891829681	1.31E-29
DLGAP1-AS5	ENSG00000261520	4.906166571	5.15E-29
RP11-379K22.3	ENSG00000270919	4.546298049	3.93E-43
RP11-587P21.2	ENSG00000257893	4.540929144	3.47E-26
RP11-369C8.1	ENSG00000258616	4.473795575	9.31E-29
LINC00326	ENSG00000231023	4.173758229	7.77E-18
RP11-440G9.1	ENSG00000236366	4.120404356	1.92E-26
AC007381.2	ENSG00000223929	4.072948017	2.10E-19
CTC-458G6.4	ENSG00000248588	4.033982338	1.12E-14
RP11-127O4.3	ENSG00000225768	3.701138645	9.22E-23
RP11-554I8.2	ENSG00000223784	3.576553101	5.91E-13
RP11-292D4.1	ENSG00000248346	3.454976161	6.38E-14
AP001065.15	ENSG00000228709	3.399878854	3.81E-24
RP3-326I13.1	ENSG00000224294	3.399522596	8.46E-16
AFAP1-AS1	ENSG00000272620	3.39174407	5.24E-19
RP11-550H2.1	ENSG00000225605	3.387144773	4.67E-25
LINC01300	ENSG00000253595	3.38402592	1.63E-22
RP11-338H14.1	ENSG00000250390	3.338291954	2.17E-22
LINC01168	ENSG00000240707	3.327367762	3.22E-21
RP11-362K2.2	ENSG00000258231	3.323642661	4.09E-18
RP11-218F4.1	ENSG00000260019	3.307185676	6.40E-15
RP11-256I9.2	ENSG00000260834	3.297363227	6.43E-18
NFE4	ENSG00000230257	3.293770206	1.71E-25
RP11-267C16.1	ENSG00000227115	3.196553201	3.04E-17
CTC-338M12.1	ENSG00000248514	3.15866994	7.29E-33
mRNA			
Symbol	ENSG	log2 Fold Change	Padj
PAEP	ENSG00000122133	8.113540746	4.29E-124

KRT14	ENSG00000186847	7.582334772	2.48E-72
MAGEA1	ENSG00000198681	6.449845895	5.83E-32
SERPINB13	ENSG00000197641	6.049425578	7.73E-26
SPRR2E	ENSG00000203785	5.926629874	1.49E-30
SEMG2	ENSG00000124157	5.839939979	4.30E-53
KRT78	ENSG00000170423	5.722170771	3.25E-50
MUC6	ENSG00000184956	5.677332757	9.34E-63
LCE3D	ENSG00000163202	5.612082089	1.66E-30
GP2	ENSG00000169347	5.610096047	6.96E-58
CRCT1	ENSG00000169509	5.454104705	1.01E-27
INSL4	ENSG00000120211	5.39606316	5.61E-48
ZNF479	ENSG00000185177	5.189311095	9.77E-22
SPRR2B	ENSG00000196805	5.053743904	6.19E-24
LIPF	ENSG00000182333	4.930280988	6.10E-27
IVL	ENSG00000163207	4.721542899	9.04E-24
KRT5	ENSG00000186081	4.693321004	7.74E-32
MSMB	ENSG00000263639	4.668500628	8.80E-33
KRT6A	ENSG00000205420	4.600441771	4.36E-38
CRNN	ENSG00000143536	4.524270066	1.77E-18
ESX1	ENSG00000123576	4.437225497	8.49E-23
IRGM	ENSG00000237693	4.376174705	1.45E-46
CCDC160	ENSG00000203952	4.342666852	1.42E-38
MAGEB2	ENSG00000099399	4.302645781	5.20E-14
TTC29	ENSG00000137473	4.256193042	4.53E-20
miRNA			
ID	Accession number	log2 Fold Change	Padj
hsa-miR-205-5p	MIMAT0000266	4.832839175	3.47E-26
hsa-miR-302b-3p	MIMAT0000715	4.509966102	8.01E-18
hsa-miR-302a-5p	MIMAT0000683	4.49431721	3.39E-18
hsa-miR-508-3p	MIMAT0002880	3.778275243	1.70E-38
hsa-miR-508-5p	MIMAT0004778	3.548091665	9.62E-20
hsa-miR-509-3p	MIMAT0002881	3.12837859	4.25E-32

hsa-miR-514a-3p	MIMAT0002883	3.013711145	2.03E-17
hsa-miR-506-3p	MIMAT0002878	2.846322951	7.94E-12
hsa-miR-513c-5p	MIMAT0005789	2.662812394	3.34E-09
hsa-miR-615-3p	MIMAT0003283	2.482126163	8.01E-18
hsa-miR-514a-5p	MIMAT0022702	2.397850529	9.33E-05
hsa-miR-6744-3p	MIMAT0027390	2.351108389	1.47E-11
hsa-miR-6744-5p	MIMAT0027389	2.302348334	9.52E-13
hsa-miR-302a-3p	MIMAT0000684	2.081101783	6.34E-06
hsa-miR-1293	MIMAT0005883	1.979828993	2.54E-09
hsa-miR-551a	MIMAT0003214	1.900360463	4.56E-11
hsa-miR-31-3p	MIMAT0004504	1.825473319	5.14E-09
hsa-miR-7702	MIMAT0030017	1.813687741	5.10E-13
hsa-miR-215-3p	MIMAT0026476	1.763228121	3.49E-09
hsa-miR-3619-5p	MIMAT0017999	1.702150221	6.10E-08
hsa-miR-1911-5p	MIMAT0007885	1.684608687	0.0058736
hsa-miR-513a-5p	MIMAT0002877	1.571982921	0.001356035
hsa-miR-1224-5p	MIMAT0005458	1.553217417	0.000116419
hsa-miR-31-5p	MIMAT0000089	1.529052752	2.84E-06
hsa-miR-4787-3p	MIMAT0019957	1.512283336	5.98E-08

Downregulated genes

lncRNA

Symbol	ENSG	log2 Fold Change	Padj
CTD-2024I7.18	ENSG00000273557	-1.000038981	0.004505793
RP3-323P24.3	ENSG00000226310	-1.002307037	2.20E-08
AC091633.3	ENSG00000223711	-1.003010622	2.48E-05
LINC01473	ENSG00000237877	-1.003244045	2.26E-10
RP11-327L3.3	ENSG00000231518	-1.003734347	8.49E-05
FENDRR	ENSG00000268388	-1.006926236	2.73E-07
RP11-150O12.6	ENSG00000253414	-1.007945692	4.20E-05
RP11-399K21.14	ENSG00000272692	-1.009056501	7.30E-07
FAM66C	ENSG00000226711	-1.01091407	1.94E-06
RP11-438D8.2	ENSG00000249417	-1.011703919	0.000179442

RP4-584D14.6	ENSG00000239377	-1.012055273	1.67E-05
AP006748.1	ENSG00000223400	-1.012167965	1.53E-06
RP11-170M17.1	ENSG00000228566	-1.013998005	0.000755249
AC007255.8	ENSG00000223813	-1.014916451	1.24E-13
RP11-725P16.2	ENSG00000272769	-1.014930273	7.61E-05
RP11-235C23.5	ENSG00000228317	-1.016104406	0.003749773
LINC01315	ENSG00000229891	-1.016886289	8.21E-10
RP11-496D24.2	ENSG00000261121	-1.016937133	0.002582576
RP5-1059L7.1	ENSG00000278709	-1.017217706	1.29E-06
RP11-153K11.3	ENSG00000233590	-1.017541693	0.006967532
AC004837.5	ENSG00000228554	-1.018742056	0.001348261
RP11-44N21.1	ENSG00000257556	-1.021212849	6.62E-12
AC072062.1	ENSG00000229267	-1.025510357	7.67E-05
RP11-405F3.5	ENSG00000261633	-1.02575129	0.003054928
RP11-111M22.4	ENSG00000272301	-1.027144738	8.53E-09
mRNA			
Symbol	ENSG	log2 Fold Change	Padj
MTMR8	ENSG00000102043	-1.000074445	1.23E-09
STPG2	ENSG00000163116	-1.000816806	1.36E-05
BRINP1	ENSG00000078725	-1.000981675	0.000649783
MYLK	ENSG00000065534	-1.00103538	4.68E-06
GUCY2C	ENSG00000070019	-1.001858809	4.82E-10
WSCD2	ENSG00000075035	-1.001933306	0.00955842
LIMS2	ENSG00000072163	-1.002686019	1.37E-06
FGFR4	ENSG00000160867	-1.004820047	2.52E-11
MKX	ENSG00000150051	-1.005239731	1.22E-06
LTN1	ENSG00000198862	-1.005352328	1.85E-20
PCDHGB5	ENSG00000276547	-1.006822061	0.002322105
STX16-NPEPL1	ENSG00000254995	-1.007456458	5.12E-06
ID4	ENSG00000172201	-1.008541644	4.72E-07
SPATC1L	ENSG00000160284	-1.008896819	4.38E-05
APOD	ENSG00000189058	-1.00899427	0.001808563

TTLL2	ENSG00000120440	-1.009266305	2.53E-07
DDC	ENSG00000132437	-1.009661498	5.68E-08
LUZP2	ENSG00000187398	-1.009821698	0.000172717
HOXA1	ENSG00000105991	-1.009936551	8.66E-09
AP006285.2	ENSG00000278919	-1.010452516	2.22E-08
CHRM3	ENSG00000133019	-1.010510761	1.24E-06
PROX1	ENSG00000117707	-1.010976935	1.24E-07
SORBS1	ENSG00000095637	-1.011175289	9.83E-08
HBD	ENSG00000223609	-1.012138959	0.002024429
LGR5	ENSG00000139292	-1.012347479	6.57E-05
miRNA			
ID	Accession number	log2 Fold Change	Padj
hsa-miR-3131	MIMAT0014996	-1.084450925	0.000823689
hsa-miR-133a-3p	MIMAT0000427	-1.09261419	0.001303116
hsa-miR-1247-3p	MIMAT0022721	-1.094185654	0.000870044
hsa-miR-181d-5p	MIMAT0002821	-1.095167555	1.68E-07
hsa-miR-296-5p	MIMAT0000690	-1.148721344	0.00022947
hsa-miR-1-3p	MIMAT0000416	-1.198539589	0.000241216
hsa-miR-1247-5p	MIMAT0005899	-1.207313396	0.000109393
hsa-miR-362-5p	MIMAT0000705	-1.230787022	2.25E-09
hsa-miR-6720-3p	MIMAT0025851	-1.239606284	0.001038791
hsa-miR-4780	MIMAT0019939	-1.253497267	0.005396448
hsa-miR-224-5p	MIMAT0000281	-1.272290427	3.74E-13
hsa-miR-452-3p	MIMAT0001636	-1.275538287	4.66E-13
hsa-miR-499a-5p	MIMAT0002870	-1.280824152	0.007344687
hsa-miR-383-5p	MIMAT0000738	-1.467025366	0.002082337
hsa-miR-204-5p	MIMAT0000265	-1.483446429	0.00264761
hsa-miR-196b-5p	MIMAT0001080	-1.572778649	7.53E-14
hsa-miR-6507-5p	MIMAT0025470	-1.600293432	0.002257018
hsa-miR-4636	MIMAT0019693	-1.608905548	5.00E-08
hsa-miR-6715b-3p	MIMAT0025843	-1.726689358	2.25E-09
hsa-miR-1275	MIMAT0005929	-1.830056647	1.03E-06

hsa-miR-466	MIMAT0015002	-1.896066763	0.003184641
hsa-miR-552-5p	MIMAT0026615	-1.911572731	9.54E-16
hsa-miR-548f-3p	MIMAT0005895	-1.939540658	7.27E-06
hsa-miR-552-3p	MIMAT0003215	-1.99645377	7.81E-16
hsa-miR-1269b	MIMAT0019059	-3.039438969	0.001149542

ENSG: Ensembl ID