

SUPPLEMENTARY MATERIAL

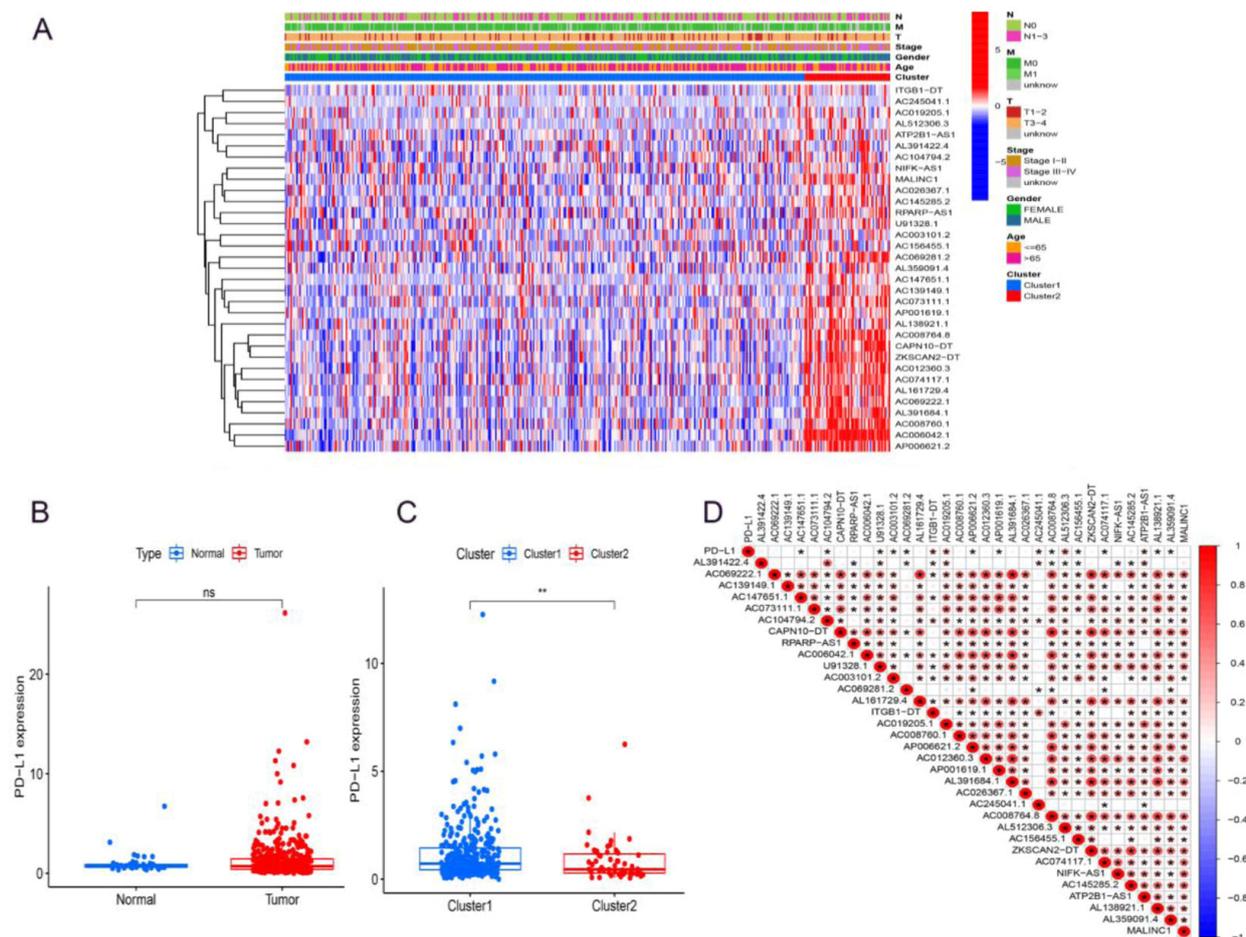
Characterization of the m6A-related lncRNA signature in predicting prognosis and immune response in patients with colon cancer

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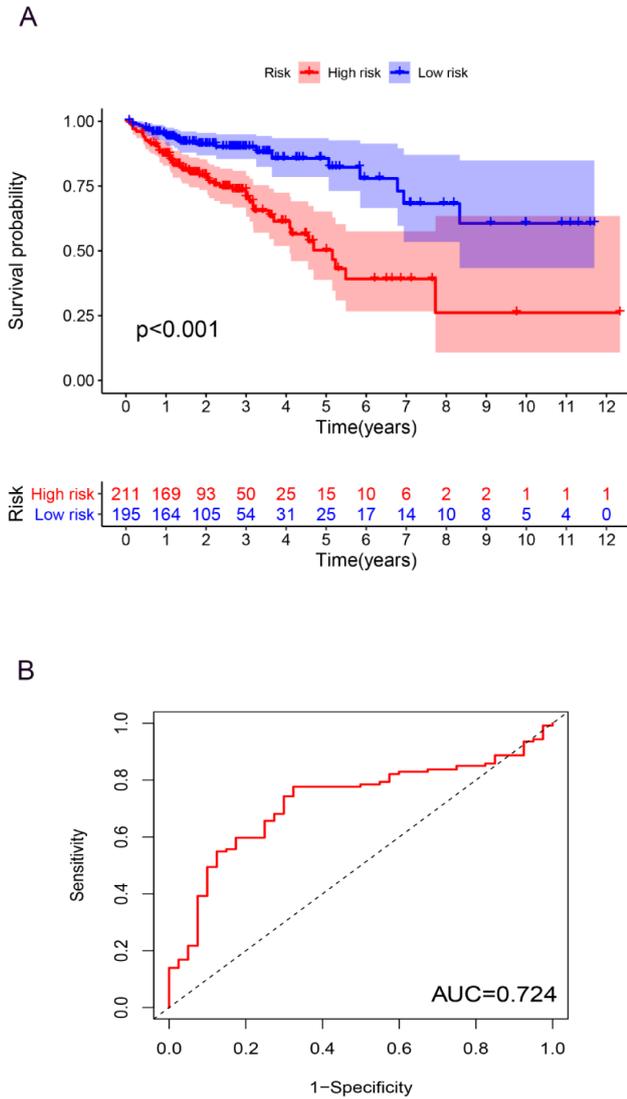


Supplementary Figure 1. Clinical characteristics among two m6A-related lncRNAs clusters. **A:** The heatmap of m6A-related lncRNAs from 2 clusters and clinical characteristics. **B:** Expression of PD-L1 in tumors and normal tissues. **C:** Expression of PD-L1 in cluster 1 and 2. **D:** The correlation between m6A-related lncRNAs and PD-L1. (** $p < 0.01$).

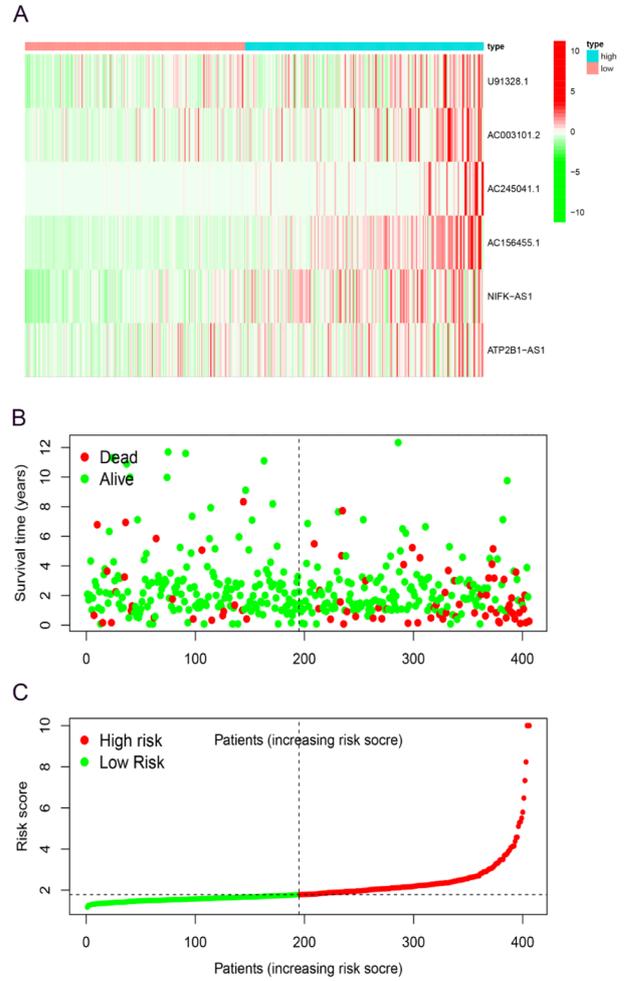
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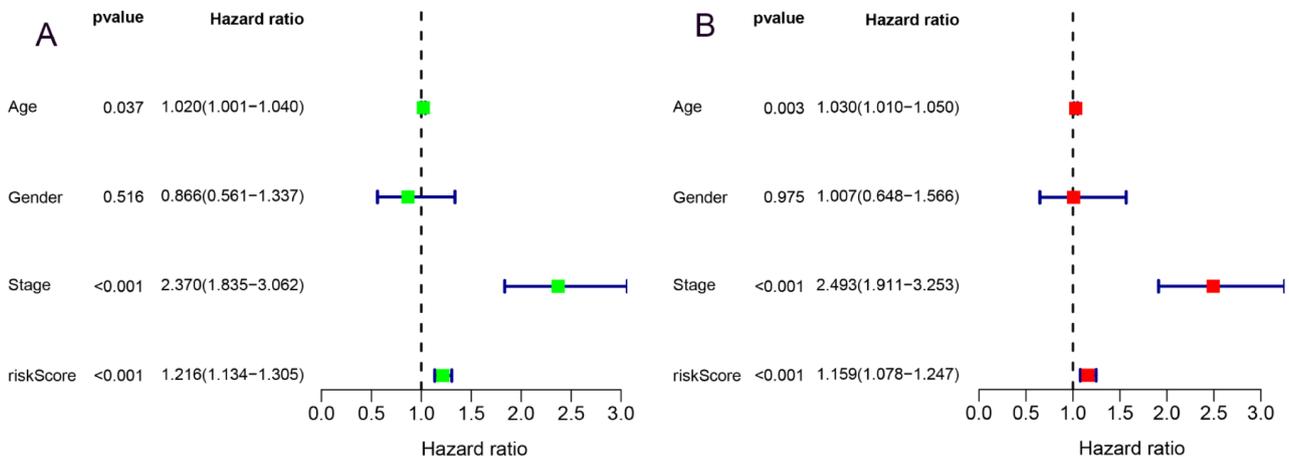
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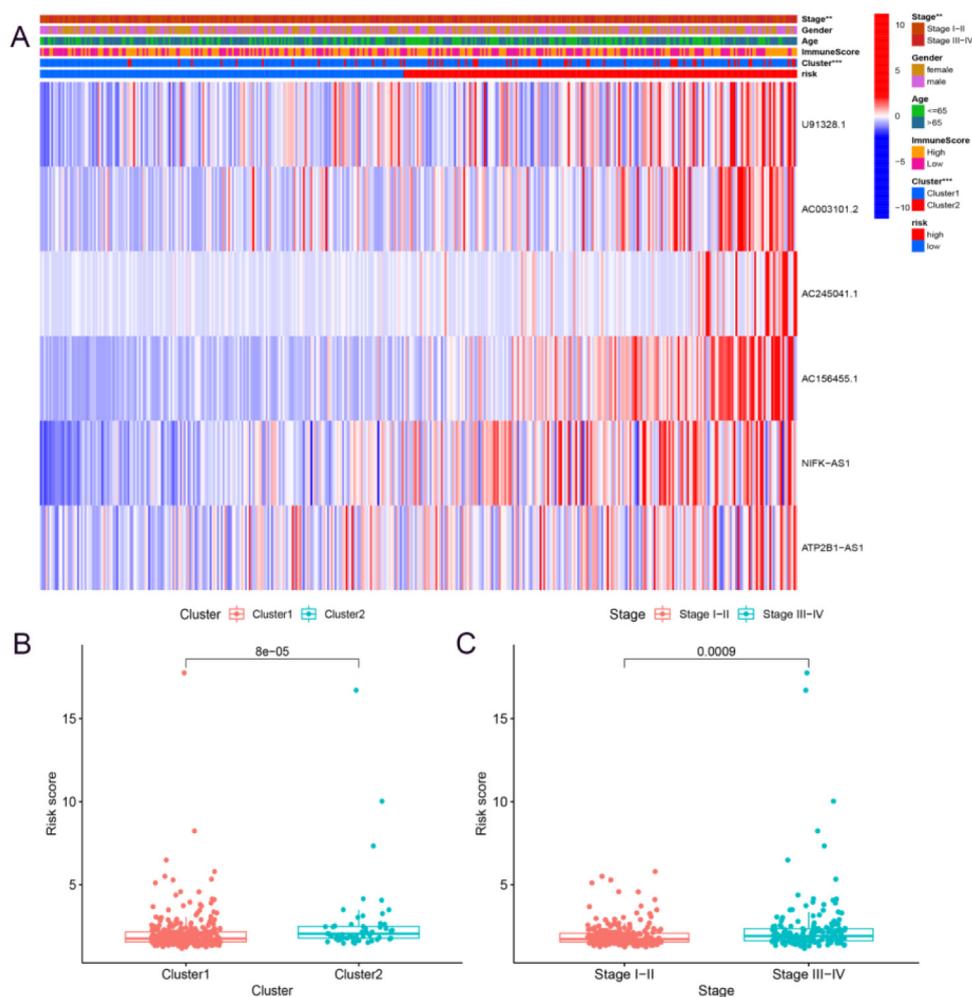
Supplementary Figure 2. Risk model from m6A-related lncRNAs. **A:** Overall survival analysis for patients in high/low-risk groups in the entire TCGA set. **B:** The ROC curve of the risk score in the entire TCGA set.



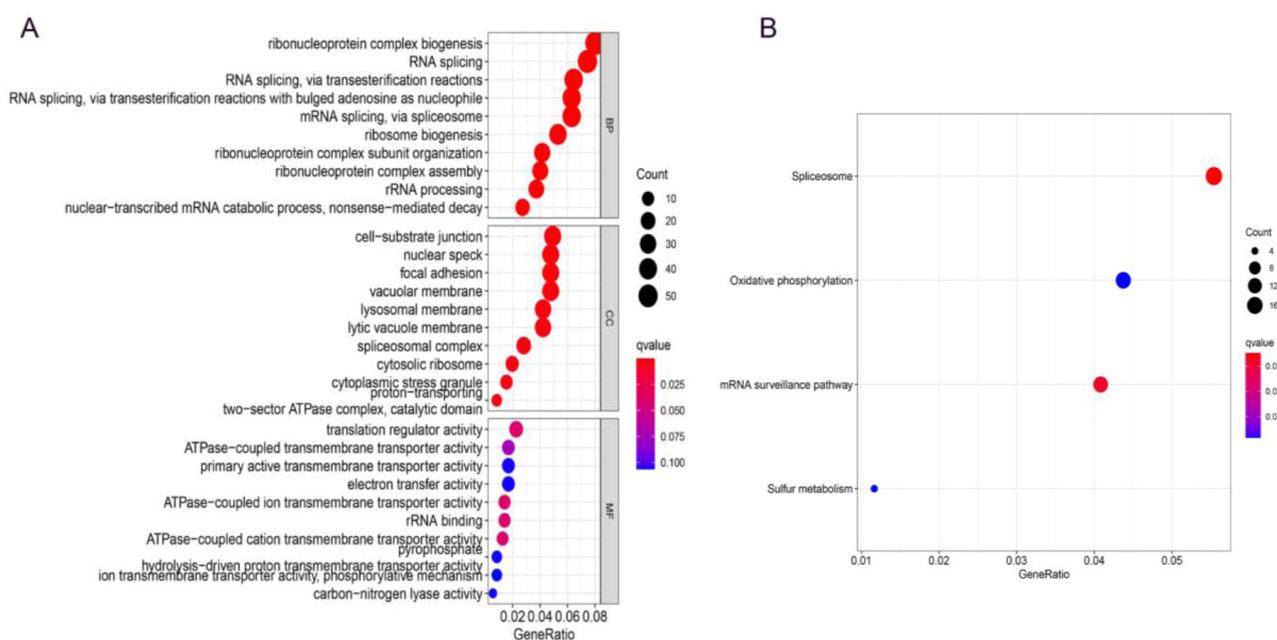
Supplementary Figure 3. Prognostic value of the six m6A-related lncRNAs risk patterns. **A:** The presentation of the cluster analysis heatmap of the expression criterion of the six prognostic lncRNAs for each patient in the entire TCGA set. **B:** Various modes of survival condition and survival time between two groups in the entire TCGA set. **C:** Allocation of m6A-related lncRNA model-based risk score in entire TCGA set.



Supplementary Figure 4. The independence of the m6A-related lncRNA signature in OS. **A:** The univariate Cox regression analysis in the entire TCGA set. **B:** The multivariate Cox regression analysis in the entire TCGA set.



Supplementary Figure 5. The correlation of risk points with clinical characteristics. **A** and clusters **B**. **C**: The association of risk scores with stage.



Supplementary Figure 6. Enrichment analysis. **A**: The GO analysis of DEGs between two groups. **B**: The KEGG analysis of DEGs between two groups.

Supplementary Table 1. The univariate Cox regression of 33 m6A-related lncRNAs

<i>Gene</i>	<i>HR</i>	<i>HR.95L</i>	<i>HR.95H</i>	<i>p value</i>	<i>Gene</i>	<i>HR</i>	<i>HR.95L</i>	<i>HR.95H</i>	<i>p value</i>
AL391422.4	1.820776	1.24026	2.673009	0.00222	AC012360.3	1.887929	1.241825	2.870191	0.002946
AC069222.1	4.939446	1.773675	13.75569	0.002239	AP001619.1	1.659035	1.208941	2.276699	0.001718
AC139149.1	3.139285	1.437031	6.857968	0.004113	AL391684.1	2.099047	1.231697	3.577179	0.006408
AC147651.1	2.181585	1.347891	3.530932	0.001498	AC026367.1	4.764966	1.594951	14.23549	0.005174
AC073111.1	1.527397	1.132723	2.059587	0.005486	AC245041.1	1.481192	1.212205	1.809866	0.000122
AC104794.2	1.390084	1.115357	1.732479	0.00337	AC008764.8	2.571175	1.256221	5.26256	0.009762
CAPN10-DT	1.862035	1.209749	2.866027	0.004723	AL512306.3	3.47232	1.491609	8.08322	0.003884
RPARP-AS1	1.261611	1.077049	1.477799	0.00398	AC156455.1	1.187032	1.080919	1.303563	0.000333
AC006042.1	1.077925	1.01836	1.1409743	0.009674	ZKSCAN2-DT	1.481083	1.267875	1.730144	7.31E-07
U91328.1	2.37585	1.366276	4.131424	0.002173	AC074117.1	1.305943	1.089796	1.564959	0.003835
AC003101.2	3.163983	1.62615	6.15613	0.000695	NIFK-AS1	1.907391	1.343919	2.707114	0.000301
AC069281.2	1.41097	1.08931	1.827614	0.009108	AC145285.2	4.992403	1.755531	14.19746	0.002567
AL161729.4	1.436046	1.177402	1.751508	0.000355	ATP2B1-AS1	8.408046	2.616827	27.01563	0.00035
ITGB1-DT	2.323377	1.36958	3.941412	0.00177	AL138921.1	5.853586	1.72317	19.88455	0.004624
AC019205.1	13.35795	2.202481	81.0154	0.004825	AL359091.4	2.350324	1.251095	4.415349	0.0079
AC008760.1	1.567868	1.208925	2.033385	0.000698	MALINC1	3.532372	1.528241	8.164714	0.003156
AP006621.2	1.216811	1.085362	1.364179	0.000767					

Supplementary Table 2. The Differentially Expressed Genes between high risk group and low risk group

<i>ID</i>	<i>logFC</i>	<i>p value</i>	<i>adj. p value</i>	<i>ID</i>	<i>logFC</i>	<i>p value</i>	<i>adj. p value</i>
AC156455.1	1.597983	2.86E-26	1.53E-21	AHSA2P	1.187985	1.13E-06	0.000258
JRKL	1.522696	1.49E-10	6.64E-07	AL445524.1	-1.48086	1.32E-06	0.000288
AC106782.2	1.040693	4.88E-10	1.63E-06	PIGW	1.042653	1.34E-06	0.00029
C11orf71	1.142012	6.49E-10	1.83E-06	ASRGL1	-1.95586	1.39E-06	0.000295
C2orf68	1.133763	3.44E-09	5.75E-06	CLK1	2.097995	1.47E-06	0.000304
LINC02542	1.097992	2.71E-08	2.16E-05	EMC2	1.907594	1.55E-06	0.000316
LRP11	4.628536	4.22E-08	3.05E-05	NXF1	1.210366	1.84E-06	0.000346
PRNP	7.927415	5.80E-08	3.83E-05	MARVELD1	3.607045	1.88E-06	0.000347
MOSPD1	1.593018	6.23E-08	3.99E-05	RAB25	-18.9635	1.90E-06	0.00035
LUC7L3	2.958027	6.26E-08	3.99E-05	FNBP4	1.406558	2.18E-06	0.000388
CREBZF	2.527796	6.51E-08	4.07E-05	CHCHD7	1.536222	2.41E-06	0.000422
UPF3B	2.269095	7.48E-08	4.32E-05	LGALS4	-122.704	2.52E-06	0.000434
ATP6V1C1	2.544225	1.10E-07	5.71E-05	CWC15	2.568137	2.56E-06	0.000439
OGA	3.258348	1.13E-07	5.79E-05	NRBP2	1.648784	2.83E-06	0.000468
CH17-340M24.3	1.534267	1.70E-07	7.62E-05	STK4	1.843629	2.97E-06	0.000485
ILF3-DT	2.463173	1.88E-07	8.17E-05	PNISR	1.586895	3.00E-06	0.000486
RDX	1.434434	2.59E-07	0.0001	PABPC1L	2.689132	3.47E-06	0.000528
WSB2	-3.09983	2.91E-07	0.000107	SPAG9	1.431222	3.61E-06	0.000541
ATP6V1C2	1.5176	3.18E-07	0.000113	STAG2	3.103917	3.72E-06	0.000555
FAM192A	2.680371	3.21E-07	0.000113	RPL39P40	2.271459	3.97E-06	0.00058
FER1L4	1.349597	4.58E-07	0.000146	ORMDL1	1.308398	4.05E-06	0.000587
RB1CC1	2.525306	5.10E-07	0.000157	NOA1	-2.00064	4.18E-06	0.000598
TSPYL4	1.024964	5.96E-07	0.000172	FH	-7.15487	5.04E-06	0.000691
NEMP1	1.161216	6.29E-07	0.000177	GMDS	-11.2524	5.46E-06	0.000732
HADH	-7.41299	8.86E-07	0.000223	AC073869.1	1.073686	5.87E-06	0.000775
CASC9	1.98166	8.87E-07	0.000223	ATP1B1	-57.6711	6.22E-06	0.000801
OGT	5.742987	9.04E-07	0.000224	CXorf56	1.765414	6.45E-06	0.000819
TOR4A	-5.84233	1.06E-06	0.00025	TMEM185B	2.063048	6.63E-06	0.000835
ZNF12	1.157204	1.13E-06	0.000258	OSER1-DT	1.672945	6.74E-06	0.00084

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ID	logFC	p value	adj. p value	ID	logFC	p value	adj. p value
WSB1	1.794716	6.82E-06	0.000843	AC018645.2	1.530558	2.43E-05	0.001845
MKNK2	-5.72865	7.12E-06	0.000869	ORC3	1.039419	2.44E-05	0.00185
TAF1	1.076855	7.15E-06	0.000869	DHX40	1.284092	2.45E-05	0.001851
C11orf95	1.133522	7.28E-06	0.000869	PARN	1.375516	2.51E-05	0.001884
C4orf19	-1.47213	7.29E-06	0.000869	DCAF13	1.643765	2.64E-05	0.00196
FUT6	-2.36157	7.45E-06	0.000869	CANT1	-9.67788	2.65E-05	0.001971
TAF1D	1.919123	7.45E-06	0.000869	QSOX1	-13.1784	2.68E-05	0.001985
UTP23	1.086688	7.46E-06	0.000869	TNFRSF11A	-1.51897	2.70E-05	0.001987
IDS	1.855789	7.77E-06	0.000888	IFRD1	1.250462	2.70E-05	0.001987
EBAG9	1.997289	7.82E-06	0.000891	UGT8	-3.45406	2.87E-05	0.002074
HNRNPH3	3.1434	8.06E-06	0.000909	MRPL37	-5.83846	2.91E-05	0.002093
WWC3	1.266852	8.23E-06	0.000919	TSR2	6.162498	2.96E-05	0.002116
UBR5	1.793899	9.21E-06	0.000989	FAM91A1	2.123838	2.97E-05	0.00212
FOXA3	-5.14808	9.95E-06	0.001045	ABHD17C	-4.8534	2.98E-05	0.002127
LINC02001	1.78456	1.00E-05	0.001051	ARHGEF19	1.431282	3.02E-05	0.002144
TCEAL4	3.679968	1.01E-05	0.001057	C8orf59	3.009698	3.04E-05	0.002152
TRA2A	2.555187	1.03E-05	0.001071	RBM6	1.927598	3.06E-05	0.002157
CBX1	3.024254	1.12E-05	0.001126	MRAP2	-1.79892	3.11E-05	0.002178
NCBP2	3.529403	1.17E-05	0.001151	ETHE1	-20.3959	3.14E-05	0.002194
LAMP2	5.329799	1.36E-05	0.001278	CAPN5	-5.20844	3.29E-05	0.002247
OFD1	1.61456	1.51E-05	0.001384	UAP1	-3.63489	3.32E-05	0.002256
CDIP1	1.321262	1.51E-05	0.001384	SRSF5	3.948478	3.35E-05	0.002258
MPHOSPH10	1.384439	1.52E-05	0.001385	ATAD1	1.648045	3.36E-05	0.002258
WDR45	1.14611	1.62E-05	0.00144	PAXIP1-AS1	1.268559	3.55E-05	0.002343
MAP7D2	1.843146	1.67E-05	0.001469	FAM57A	-3.17817	3.57E-05	0.002348
ZDHHC3	-2.20103	1.68E-05	0.001475	SSB	3.892075	3.89E-05	0.002468
NAB2	1.176244	1.76E-05	0.001505	CCNL1	1.62027	3.89E-05	0.002468
ASL	-5.43191	1.77E-05	0.001511	7-Sep	2.164254	3.90E-05	0.002468
TAF1C	1.235676	1.78E-05	0.001516	SLC44A4	-18.8617	3.92E-05	0.002468
U2SURP	1.773876	1.79E-05	0.001522	KDF1	-1.98018	3.98E-05	0.002493
CDC42EP5	-26.0978	1.82E-05	0.001528	CUL4B	1.895193	4.07E-05	0.002536
ZNF623	1.084711	1.82E-05	0.001528	OSGIN2	1.072138	4.35E-05	0.00266
TP53	-6.98064	1.83E-05	0.001535	AGR2	-168.675	4.38E-05	0.002668
TMUB2	1.490546	1.84E-05	0.001535	PFN2	5.020454	4.39E-05	0.002668
FMR1	1.86049	1.85E-05	0.001539	SLC25A36	1.438127	4.41E-05	0.002668
ARFGEF1	2.019727	1.86E-05	0.001539	ENY2	1.385673	4.48E-05	0.002696
BTAF1	1.11177	1.91E-05	0.001566	WASHC3	1.415106	4.55E-05	0.002725
SUN1	1.521159	1.91E-05	0.001569	NSRP1	1.093663	4.61E-05	0.002752
ZCRB1	2.277999	1.96E-05	0.001596	POLR2K	6.182532	4.61E-05	0.002752
TIA1	1.927814	1.98E-05	0.001614	RIDA	3.739408	4.63E-05	0.002752
ST6GALNAC1	-19.2309	2.01E-05	0.001629	FDPS	-5.39995	4.63E-05	0.002752
ZNF638	1.067016	2.07E-05	0.001666	CDS1	-1.94374	4.63E-05	0.002752
FUT3	-8.23051	2.18E-05	0.00173	BACE2	-4.90418	4.73E-05	0.002786
SMG1	1.116749	2.18E-05	0.001732	KLHL24	1.39201	4.84E-05	0.002822
STX16	3.987683	2.31E-05	0.001802	WAC-AS1	1.197082	4.90E-05	0.00285
OLFM4	-563.797	2.32E-05	0.001804	ATP2A3	-6.37364	4.93E-05	0.00286
NDUFS2	-4.45236	2.35E-05	0.001815	NFATC2IP	1.452734	5.12E-05	0.002949
SPINT1	-11.8595	2.36E-05	0.00182	ZBTB10	1.186521	5.38E-05	0.003031
FAM122B	2.725999	2.38E-05	0.001827	RHOQ	1.072441	5.43E-05	0.003048
SLC37A1	-2.15874	2.39E-05	0.001832	TAF2	1.009315	5.57E-05	0.003106
PM20D2	2.722326	2.40E-05	0.001835	CMTR1	1.208775	5.98E-05	0.003247

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<i>ID</i>	<i>logFC</i>	<i>p value</i>	<i>adj. p value</i>	<i>ID</i>	<i>logFC</i>	<i>p value</i>	<i>adj. p value</i>
RNU6-850P	1.141588	6.10E-05	0.003278	BTBD6	-3.21365	0.000144	0.005756
RBM39	4.849616	6.31E-05	0.003338	LUC7L	1.037809	0.000144	0.005771
CELF1	1.358951	6.52E-05	0.003419	MAPK15	1.223885	0.000147	0.005828
SORBS1	2.074167	6.73E-05	0.003495	COA5	1.208395	0.000151	0.005941
CALCOCO1	1.201783	6.75E-05	0.003503	S100P	-67.7552	0.000153	0.005985
RNF19A	1.246582	6.82E-05	0.003527	FUT2	-3.41038	0.000153	0.00599
RNF13	2.131262	7.14E-05	0.003663	ASAP1	1.197903	0.000159	0.00607
COX5A	-19.0915	7.77E-05	0.003899	RBMX2	1.427809	0.000163	0.006203
ZBTB7C	-1.20032	7.88E-05	0.003938	EEA1	1.120654	0.000165	0.006265
THOC2	1.64232	7.94E-05	0.003948	USP12	2.636107	0.000166	0.006288
PPP6R3	1.23827	8.04E-05	0.003979	GLS	2.3253	0.000167	0.006312
AL118516.1	1.001169	8.20E-05	0.004037	SERINC3	9.046041	0.00017	0.00638
YAP1	3.494156	8.21E-05	0.004038	TRIM44	1.106056	0.000172	0.006424
DDX27	4.429546	8.34E-05	0.004085	RNF149	1.671533	0.000173	0.006458
ATP5F1A	-6.85917	8.35E-05	0.004086	FAM118A	1.311666	0.000174	0.006465
RMND5A	1.809639	8.40E-05	0.004102	ZMYND8	2.448586	0.000174	0.006472
UPF2	1.065431	8.47E-05	0.004113	GTF3C1	1.034479	0.000177	0.006536
NCOA3	1.408986	8.53E-05	0.004131	NUDCD1	1.701614	0.000177	0.006542
PCMTD1	1.664641	8.70E-05	0.004191	CETN2	3.716657	0.00018	0.006614
MLF1	1.131386	8.80E-05	0.004216	TAF11	2.036047	0.000186	0.006801
EPB41L1	2.734445	8.90E-05	0.004242	MRM1	1.391327	0.000187	0.006822
MPDU1	-2.98217	9.35E-05	0.004386	CDIPT	3.301173	0.000188	0.006824
TERF2IP	1.50957	9.42E-05	0.004403	GSKIP	-4.42047	0.00019	0.006846
HIST2H2BE	2.57575	9.65E-05	0.004473	RSRP1	1.498985	0.00019	0.006854
UBE2V2	1.710429	9.67E-05	0.004477	CCDC43	1.269106	0.000191	0.006888
FANCF	1.044051	9.81E-05	0.004503	PIM3	-7.92974	0.000192	0.006897
OTUD6B	1.16886	9.83E-05	0.004503	NAA38	-4.66659	0.000192	0.006907
FZD7	1.770732	9.84E-05	0.004503	P3H4	1.993255	0.000193	0.006921
SH2B1	1.122343	1.00E-04	0.004559	SPINDOC	1.547369	0.000194	0.006927
LMAN2L	1.110846	0.000103	0.004652	MAGEF1	3.155689	0.000195	0.006959
KLF4	-6.85503	0.000108	0.004811	LRRCC1	1.149805	0.000197	0.006982
TUG1	2.795039	0.00011	0.004891	AL117382.1	3.97558	0.000198	0.007023
CLDN7	-20.1994	0.000113	0.004966	NORAD	16.08455	0.000201	0.007095
XPO1	2.089875	0.000114	0.005004	CCAR1	1.627258	0.000203	0.007146
SERINC1	5.886555	0.000115	0.005023	PPIG	1.530164	0.000204	0.007178
COX6C	7.764192	0.000116	0.005052	TXNL4A	-1.30604	0.000206	0.007223
SH2D4A	-1.6403	0.000116	0.005052	CPT2	-1.23441	0.000208	0.007268
PICALM	3.361683	0.000119	0.005119	PDK3	1.093288	0.000209	0.007295
PPP1R3D	1.042087	0.000122	0.005199	CTNBNB1	2.812787	0.000209	0.007295
RPS6KA1	-3.10356	0.000122	0.005204	SMIM31	-1.72226	0.000211	0.007328
METTL23	1.31003	0.000124	0.00525	LAMTOR2	-3.80987	0.000211	0.007328
FUCA1	-6.26073	0.000125	0.005269	ATF7IP	1.199437	0.000215	0.007421
DPY19L4	1.128187	0.000127	0.00534	GUCD1	-3.03254	0.000219	0.007506
BAG1	-1.83921	0.000131	0.005431	HIPK3	1.643235	0.000219	0.007506
RRN3	1.715729	0.000133	0.00549	MDH2	-12.9207	0.00022	0.007518
GPA33	-20.7403	0.000135	0.005528	ERGIC1	-1.9502	0.000221	0.007531
RAB22A	1.626336	0.000138	0.005598	SRPX2	4.90753	0.000224	0.007605
PPA2	-2.66118	0.000138	0.005612	DARS	3.790074	0.000224	0.007605
BLCAP	2.169337	0.00014	0.005662	NFAT5	1.257351	0.000229	0.007693
AKR1A1	-6.60551	0.000141	0.005696	GRIPAP1	1.064172	0.000229	0.007694
TSTA3	-12.2963	0.000142	0.00571	ITCH	2.066498	0.000232	0.007787

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LAD1	-11.188	0.000233	0.007791	ATP6AP2	7.74881	0.000412	0.011134
MACC1	1.906587	0.000234	0.007803	NUMA1	1.661273	0.000414	0.011165
NFKB1	-1.23865	0.00024	0.007935	CDCA8	-2.55837	0.000416	0.011208
FFAR4	-2.30998	0.000245	0.008032	SQOR	-4.92988	0.000418	0.011249
ZBTB38	1.75049	0.000248	0.008104	HNMT	2.310697	0.00042	0.011293
IMPAD1	2.384777	0.000254	0.008221	CASC19	1.231506	0.000422	0.011304
VAMP7	2.557333	0.000257	0.008297	MTDH	4.274988	0.000424	0.011344
TMEM238L	-2.58043	0.000259	0.00832	NES	2.741374	0.00043	0.011452
ZCCHC14	1.151114	0.000259	0.00832	EFR3A	2.209431	0.000431	0.011458
PURB	1.394767	0.000261	0.008365	TNNC2	8.184247	0.000432	0.011462
RIPK2	1.613768	0.000262	0.008379	LAS1L	1.87623	0.000438	0.011566
TRIM15	-2.99861	0.000262	0.008385	UQCRC1	-18.1553	0.000439	0.011584
TATDN1	1.025403	0.000266	0.008474	SSR2	-4.41449	0.000439	0.011584
PRDX2	-18.1056	0.000273	0.008627	DNAJC2	1.076846	0.000446	0.011696
6-Mar	1.481019	0.000276	0.008673	DKC1	5.116942	0.000452	0.01179
LAPTM4B	16.22756	0.00028	0.008778	TFCP2	1.24411	0.000453	0.01179
CTSV	1.115224	0.000303	0.009224	KIAA1522	-3.99355	0.000459	0.011915
SEPHS2	8.658383	0.000303	0.009224	ANKZF1	1.024264	0.00046	0.011916
AL390728.6	1.24004	0.000305	0.009256	ARF1	-23.7236	0.000464	0.011988
RBL2	1.241424	0.000305	0.009259	TTC38	-4.76086	0.000467	0.012033
CRAT	-4.76035	0.000305	0.009259	ATP2C2	-2.06188	0.00047	0.012084
DDX6	1.395847	0.000305	0.009263	CPNE3	3.224245	0.000471	0.012087
KIAA1551	1.440174	0.000306	0.009266	RNF19B	-3.17882	0.000471	0.012087
TLNRD1	-1.77373	0.000308	0.009302	PHF1	1.269089	0.000471	0.012093
AEN	-1.15499	0.000308	0.009302	PAQR8	-3.95678	0.000474	0.01213
PHF3	1.211439	0.000323	0.009585	PHF10	1.439574	0.000475	0.01213
CHRAC1	1.988011	0.000326	0.009624	BPNT1	-2.59309	0.000475	0.01213
TOX	-1.05951	0.000329	0.009699	WASHC5	2.281847	0.000476	0.01213
TJP3	-4.17991	0.00033	0.009728	TMEM54	-28.0187	0.000488	0.012315
RBM17	1.211474	0.000332	0.009757	TSPAN1	-44.691	0.00049	0.012336
WDR75	1.212142	0.000335	0.009803	AGO2	1.149621	0.00049	0.012336
RTL8A	6.483891	0.000338	0.00987	PFDN4	3.017214	0.000493	0.012368
CCDC14	1.103601	0.000339	0.009893	SPRY2	-4.46842	0.000503	0.012569
COP55	1.284367	0.000345	0.010017	INTS8	1.065985	0.000505	0.012612
RGL2	1.852231	0.000349	0.010071	SERPINA1	-48.6069	0.000507	0.012621
RPLP0	-102.036	0.000349	0.010079	IDH2	-17.5303	0.000519	0.012825
ABHD3	-1.60214	0.00035	0.010094	CBX3	8.106827	0.000527	0.012959
PUM2	2.484312	0.000352	0.010132	AZIN1	5.07507	0.000529	0.012974
C2CD4A	-4.03899	0.000352	0.010137	TIMMDC1	2.223086	0.000533	0.013057
RALGAPB	1.231627	0.000352	0.010138	MAP2K2	-3.50167	0.000534	0.013068
KIFC2	1.722731	0.000361	0.010267	SLC25A32	1.72658	0.000536	0.013107
WWTR1	1.130775	0.000368	0.010396	ARMC1	2.333333	0.000538	0.013129
ARFGEF2	2.654982	0.000368	0.010406	EBLN3P	1.476205	0.000545	0.013244
ANKIB1	1.018299	0.000369	0.010406	PNRC1	2.892018	0.000545	0.013244
TTC3	1.581989	0.000378	0.010537	RAP1GAP	-3.98449	0.000546	0.013244
PTRHD1	-1.52242	0.000388	0.010742	DCAF16	1.243331	0.000548	0.013275
ZFAND1	2.155408	0.000395	0.010855	ATP6V1H	1.416342	0.000548	0.013275
PCYOX1	1.631786	0.000401	0.010951	DPM1	8.416233	0.000561	0.013451
TNFSF13	-1.42043	0.000407	0.011043	CIB1	-18.764	0.000565	0.013499
HLTF	1.078297	0.000408	0.011063	ARMCX3	2.255075	0.000568	0.013529
LRRC58	1.270665	0.000412	0.011134	PRKCI	1.198118	0.000569	0.013545

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ZMYM2	1.182859	0.00057	0.013555	FKBP10	7.837457	0.000784	0.016447
CYCSP6	1.244935	0.000571	0.013565	CNDP2	-2.20574	0.000788	0.016497
PTPRN2	-3.46357	0.000571	0.013567	IFT57	1.495329	0.000795	0.016611
CDX1	-18.8331	0.000572	0.013575	REG4	-144.598	0.000797	0.016625
METTL13	-1.55544	0.000573	0.013575	CIR1	1.675788	0.000797	0.016625
ARL16	1.063633	0.00059	0.013823	RTL8C	7.583172	0.000802	0.016683
CALM3	-9.77404	0.000597	0.01391	CEBPZOS	1.326678	0.000802	0.016683
TAZ	1.023887	0.000597	0.01391	NR1D2	1.118589	0.000811	0.016807
UQCRFS1	-3.47447	0.000599	0.013929	AL161431.1	1.143328	0.000812	0.016825
STAT5B	1.141471	0.000607	0.014043	FAM199X	1.500998	0.000812	0.016827
HTR1D	-1.36005	0.000612	0.014132	MAGEA3	3.822729	0.000818	0.016881
DDX39B	2.07608	0.000615	0.014166	CCDC58	1.666093	0.000819	0.016881
C1orf53	-1.33328	0.000617	0.01421	CSAG1	1.900426	0.00082	0.016881
IMPA2	-2.99777	0.000621	0.014265	STK26	2.106006	0.000837	0.017082
CFDP1	2.095468	0.000626	0.014368	APOBEC3B	1.001374	0.000843	0.017173
CAPNS1	-14.856	0.000631	0.014439	PTGER2	-1.17372	0.000845	0.017191
HERPUD2	1.148199	0.000641	0.014603	GTPBP4	1.128989	0.00085	0.017237
CYSTEM1	-8.97386	0.000642	0.014608	PPIL4	1.284322	0.000852	0.017245
MAP1LC3B	1.840612	0.000646	0.014658	AP1M2	-7.14623	0.000856	0.017283
SF3B1	2.827546	0.000651	0.014742	SHROOM3	-1.52469	0.000858	0.017307
CHP1	-5.44191	0.000656	0.014788	CPSF7	1.082007	0.00089	0.017709
DDX5	5.540712	0.000656	0.014788	RRM2B	1.189067	0.000891	0.017725
HDAC5	1.107275	0.000657	0.014798	SNHG1	2.528299	0.000905	0.017879
CRB3	-3.30787	0.000662	0.014857	ETFA	-3.44839	0.00091	0.01795
ST3GAL4	-4.69182	0.000667	0.014935	SUMO1	4.647835	0.000916	0.018033
AP002360.1	1.023382	0.000672	0.014984	EIF5K	-9.53976	0.000917	0.018054
PLXNA3	1.026511	0.000689	0.015247	EEF2	-142.116	0.00092	0.018097
TRMT2B	1.065862	0.00069	0.015247	PPP1R2	1.734111	0.000932	0.018237
TMEM183A	-1.34686	0.000698	0.015349	SLC35C1	-1.97568	0.000933	0.018237
ADAM15	-5.02882	0.000699	0.015369	SLC25A3	-5.39434	0.000935	0.018247
CORO2A	-1.90291	0.0007	0.015369	OXR1	1.07418	0.000937	0.018287
DNAJB2	1.387587	0.000702	0.015374	MAGEA12	1.938691	0.000947	0.018405
COX17	1.520698	0.000711	0.01548	HIST1H2BD	7.83134	0.000951	0.01848
SCML1	1.675884	0.000713	0.015489	MGME1	2.111928	0.00097	0.018727
SCAMP5	1.002444	0.00072	0.015575	KIF1C	-2.74859	0.000971	0.018727
MYDGF	-12.6782	0.000724	0.015649	ARHGEF16	-1.59875	0.000974	0.018751
TMEM41B	1.322852	0.00073	0.015734	ATP5F1B	-49.0069	0.000974	0.018751
UBE2G2	1.192501	0.000734	0.015794	PDP1	1.370968	0.000983	0.018878
AC093010.3	1.080292	0.000738	0.01586	SLC35F2	1.77045	0.000989	0.018968
TRAF5	1.425741	0.000743	0.015934	PGRMC1	12.20834	0.000991	0.018989
AMZ2	1.733697	0.000745	0.015952	OR7E38P	1.202556	0.000998	0.019105
PHETA1	-1.82169	0.000749	0.015989	C9orf152	-3.67211	0.001002	0.01916
OSBPL2	1.100181	0.000754	0.016049	F2RL1	-4.40856	0.001013	0.019304
RAD21	6.239005	0.000757	0.016109	ZNF672	-1.26747	0.001013	0.019304
TFF3	-302.73	0.000763	0.016184	FZD6	1.151199	0.001022	0.019401
TXN2	-4.92233	0.000765	0.016218	PABPN1	2.762881	0.001029	0.019487
GRHPR	-1.53972	0.000771	0.016334	ROCK2	1.933438	0.001031	0.019508
CYP4F2	1.744144	0.000772	0.01634	CDK5RAP3	2.380124	0.001063	0.019959
VMP1	6.574242	0.000778	0.016395	ZBTB33	1.273299	0.001065	0.019969
SRSF10	1.348234	0.000779	0.016405	RCN1	3.144046	0.001068	0.020012
FABP2	-1.66635	0.000781	0.016419	PAPSS2	-4.50829	0.001073	0.020052

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AC006042.1	1.028936	0.001077	0.020088	MED13	1.222811	0.001468	0.024386
KHDC4	1.504856	0.001078	0.020091	TMEM147	-7.24246	0.001476	0.024482
PLS3	2.012349	0.001087	0.020238	MPHOSPH6	1.097898	0.001515	0.024886
PLOD2	2.085412	0.00109	0.020271	CKMT2	3.647091	0.00152	0.024918
C2orf72	-1.69999	0.001098	0.020361	MTIF2	1.574572	0.001558	0.025339
MRPS6	1.005898	0.001116	0.020583	PCED1A	2.498348	0.001566	0.025419
PITX1	-2.95721	0.001118	0.020602	IQANK1	2.552673	0.00157	0.025468
RRS1	4.472808	0.001121	0.020636	EIF4EBP3	1.749711	0.001604	0.025822
ZC3H15	3.571869	0.001128	0.020745	SLC25A43	1.38063	0.00161	0.025876
XIAP	1.596732	0.001135	0.020837	RPE	1.5873	0.001611	0.025879
SNHG6	11.1314	0.001141	0.020928	HSPH1	4.795509	0.001635	0.026134
PIK3C2A	1.089424	0.001141	0.020928	MPND	-1.58418	0.001648	0.026257
TFF1	-221.761	0.001146	0.020966	RPS2	-111.49	0.001653	0.026308
PRPF4B	1.132132	0.001151	0.021045	DDX18	1.679094	0.001659	0.026388
FMNL2	1.068731	0.001151	0.021045	VMA21	2.426751	0.00167	0.026468
LRP10	-6.77706	0.001155	0.021103	CKAP4	-6.80373	0.001705	0.026785
LY6G6D	8.029042	0.001157	0.021119	AC135050.6	1.433265	0.001705	0.026785
BRCC3	2.170085	0.001161	0.021146	CCNL2	2.202429	0.001724	0.026973
CSNK2A2	1.222558	0.001172	0.021284	CASP7	-2.63448	0.001728	0.027013
SMC3	2.093448	0.001172	0.021284	TMEM43	2.309196	0.001729	0.027019
KDELC2	1.342429	0.001179	0.021356	MED14	1.513411	0.00173	0.027032
TXLNG	1.498299	0.001185	0.021397	HPDL	3.203979	0.001773	0.027504
ALG8	1.376827	0.001197	0.021514	AKR1B10	-5.16921	0.001774	0.027513
DDX42	1.21797	0.001198	0.021514	C1QBP	-13.2002	0.001775	0.027521
ZMAT2	3.403921	0.001198	0.021514	DMTN	-2.0297	0.001783	0.02758
PDE9A	-1.17435	0.001237	0.022031	AL390728.4	1.433205	0.001793	0.027689
PNN	3.42228	0.001244	0.022111	AC016596.1	-4.03913	0.001799	0.027715
STIP1	4.101616	0.00125	0.022167	CXADR	2.730187	0.001802	0.027736
TAF9B	1.450559	0.001269	0.022364	RPS9	-34.7338	0.001806	0.027752
TFE3	1.273018	0.001273	0.022396	TSPO	-19.7961	0.001806	0.027752
SCPEP1	1.527291	0.001275	0.022419	PARVB	1.103531	0.001814	0.027824
GIPC1	-5.93913	0.001284	0.022481	FOSL1	3.569382	0.001821	0.027933
APEH	-4.29665	0.00129	0.022546	EPHB4	-3.1257	0.00183	0.028017
SPDEF	-6.73076	0.001298	0.022664	RPS8	-68.3781	0.00183	0.028017
LY6G6F-LY6G6D	3.816141	0.00131	0.022804	UBXN4	3.357312	0.001831	0.028017
PPP2R1A	-4.92667	0.001317	0.022867	SRSF6	4.659512	0.001843	0.028124
MIR4292	1.352091	0.001328	0.02295	CDC42EP2	-1.97572	0.001844	0.028133
UBA52	-19.3511	0.001328	0.02295	MFHAS1	-1.45703	0.001879	0.028443
ARHGAP4	3.214307	0.001335	0.023017	FNDC3B	1.312386	0.001894	0.028584
LPIN3	1.692753	0.001335	0.023017	TSN	2.526264	0.0019	0.028634
AP002498.1	-1.30663	0.001339	0.02305	DERL1	1.654423	0.001901	0.028634
CREB3L1	-11.2012	0.001343	0.02309	N4BP2L2	1.039497	0.001907	0.028664
QARS	-6.90321	0.001346	0.023113	GATAD1	1.364823	0.001913	0.028738
NOL3	1.219545	0.001371	0.023422	SDC4	18.33257	0.001915	0.028757
YIPF6	1.152794	0.001377	0.023483	SFXN3	1.497324	0.001921	0.02881
SLC2A3	1.564941	0.001385	0.023551	JTB	-11.9655	0.001928	0.028842
ANKRD10-IT1	3.334055	0.001413	0.023857	DSCC1	1.149874	0.001933	0.028889
VPS37B	-1.5816	0.00142	0.02394	MLEC	-11.3307	0.00194	0.028958
LHFPL6	1.709794	0.001435	0.024069	UQCRB	2.198215	0.001949	0.029036
EEF1A1	-118.535	0.001436	0.024069	KLHL23	1.067876	0.00196	0.029167
MUC2	-58.888	0.001444	0.024142	USH1C	-3.81901	0.001964	0.029218

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LETMD1	1.012662	0.001965	0.029218	ESYT2	2.2161	0.002465	0.0335
YTHDF3	1.786217	0.001972	0.02929	SYVN1	1.376197	0.002472	0.033566
MCTS1	2.057098	0.001973	0.029293	CTSF	1.400067	0.002487	0.033695
SETD5	1.025572	0.002002	0.029607	ZNF524	-2.67843	0.002488	0.033695
SLC43A3	1.405902	0.002011	0.029672	ASPN	3.928588	0.00249	0.033704
ERBIN	1.081495	0.00202	0.029764	HPS6	-1.18837	0.002495	0.033749
EHD4	-1.29445	0.002026	0.029821	SRCAP	1.117	0.002497	0.033757
GOS2	6.88296	0.002037	0.029921	ALCAM	1.673945	0.002497	0.033757
PPP1CB	4.629417	0.002071	0.03019	CTDNEP1	-3.04539	0.002513	0.033931
VAT1	4.667742	0.002072	0.03019	TNS3	1.790408	0.002528	0.034045
AES	-6.44088	0.002073	0.03019	YWHAZ	15.27331	0.002528	0.034045
KIAA1324	-5.16579	0.002087	0.030295	PCNP	3.864234	0.002534	0.034103
OLR1	1.037219	0.002111	0.030479	TOP1MT	2.012085	0.002537	0.034134
MTERF3	1.767821	0.002112	0.030481	GSPT2	1.404545	0.002553	0.034295
CDKN1A	-11.5916	0.002114	0.030494	CRYAB	1.168189	0.002564	0.0344
PRPS1	2.3115	0.002116	0.030523	NEO1	-2.1813	0.002567	0.034407
NBN	1.643334	0.002118	0.030532	MYLIP	1.273956	0.002572	0.034438
VILL	-2.32491	0.00212	0.030556	ANO6	1.200599	0.002587	0.034579
ATXN2L	2.163178	0.002135	0.030705	ATP13A2	-2.85104	0.002598	0.034694
TUBB4B	-37.2917	0.002144	0.030792	CDC42EP1	-9.76257	0.0026	0.034702
NOL11	1.487072	0.002168	0.031085	KDELR1	-11.8677	0.002612	0.034789
CARD10	-1.78069	0.002186	0.031212	THUMPD1	1.120731	0.002656	0.035196
SEC63	1.168669	0.002204	0.03136	APMAP	9.95226	0.002667	0.035304
ST13	5.138995	0.002207	0.03139	LPCAT4	-2.32774	0.002685	0.035447
FLNA	20.35455	0.002207	0.03139	CEMIP2	-2.735	0.002687	0.035447
SPINT1-AS1	-1.34732	0.002217	0.031433	UBE2B	2.194812	0.002721	0.035743
FBXO32	1.615698	0.002227	0.03154	DAB2	2.129051	0.002734	0.035844
SERINC2	-11.9605	0.002228	0.031546	LMBRD1	2.817661	0.002739	0.03588
TAGLN2	-27.4396	0.002241	0.031683	CALCOCO2	1.108971	0.002741	0.03588
TCEA1	2.190589	0.002251	0.031746	BNIP3	1.153156	0.002746	0.035921
GAA	3.082179	0.002251	0.031748	MAGEA6	2.831895	0.002756	0.036
SPAG1	2.068856	0.002266	0.031865	TMEM252	2.410386	0.002773	0.036154
NUDT21	2.304017	0.00227	0.031914	C1orf115	-1.47123	0.002781	0.036204
ASNA1	-6.04794	0.002276	0.031935	ESF1	1.399312	0.002785	0.036217
FOXRED2	1.285711	0.002276	0.031935	SLC27A2	-1.69459	0.002794	0.036262
DDX17	3.823241	0.002281	0.031979	ATP1A1	-28.3125	0.002795	0.036262
GUK1	-9.57734	0.002286	0.031994	ARID5B	1.110327	0.002802	0.036327
TMEM123	12.56408	0.002295	0.032098	ECH1	-8.30744	0.00281	0.036412
SESN3	1.42299	0.002302	0.032128	H2AFZ	-13.7145	0.002812	0.036418
NCSTN	-2.71947	0.002304	0.032141	NBR1	2.179575	0.002815	0.036438
NENF	-7.1645	0.002308	0.03218	SDC2	1.903719	0.002827	0.036534
LINC01612	1.082734	0.002311	0.032207	NAB1	1.516489	0.002827	0.036534
RPL3	-59.3868	0.002339	0.032507	SNORD101	1.109045	0.002857	0.036823
HP1BP3	2.177193	0.002359	0.032658	ARHGAP12	1.099392	0.002868	0.036905
VBP1	3.174066	0.002359	0.032658	TNKS2	1.039321	0.002872	0.036934
DNM1L	1.018723	0.002381	0.032811	SELENOI	1.097051	0.002873	0.036935
DYNC1LI2	1.335326	0.0024	0.033027	LGALS9	-3.43318	0.002881	0.037005
SQLE	4.973764	0.002405	0.03303	EDNRA	1.586536	0.002897	0.037148
CHAC1	-1.20243	0.002408	0.033042	ALDOB	-11.2899	0.0029	0.03715
PLEKHG4	1.268217	0.002409	0.033047	CGGBP1	1.178352	0.002903	0.037171
KBTBD2	1.033204	0.002445	0.033352	TMEM102	-1.07876	0.002905	0.037189

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ID	logFC	p value	adj. p value	ID	logFC	p value	adj. p value
TGS1	1.337336	0.00293	0.03739	CCDC115	1.006601	0.003529	0.041943
NOP58	3.713641	0.002938	0.037429	AC069282.1	1.013829	0.003544	0.042045
KDM2A	1.036031	0.00294	0.037429	ADH5	-3.20616	0.003555	0.042143
PLBD2	2.029956	0.002943	0.037445	MBNL1	1.522503	0.003611	0.042597
ENGASE	3.381368	0.00295	0.037476	THBS2	9.799636	0.003626	0.042733
UFL1	1.173176	0.002951	0.037479	BIRC2	1.239227	0.00364	0.042852
SART1	1.954828	0.002953	0.037482	ELOC	1.436845	0.003649	0.042918
STAP2	-5.12322	0.002971	0.037603	DDOST	-11.0135	0.003662	0.042996
CLPP	-4.35436	0.002983	0.037706	BCAS1	-1.63474	0.003674	0.043083
PRELID1	-6.34999	0.002996	0.037834	CTNNBIP1	-1.47237	0.003674	0.043083
MHENCRC	1.721269	0.002998	0.037844	GEM	1.931028	0.003684	0.043149
GSR	-6.09806	0.003012	0.037963	SNRPB2	4.007583	0.003688	0.043177
BDH1	-1.07942	0.003026	0.038083	TEAD3	1.422948	0.003689	0.043177
BAIAP2L2	-4.36534	0.003035	0.038146	RPL18	-44.1739	0.003721	0.043395
HECA	1.027745	0.003036	0.038148	GIGYF1	1.484661	0.003721	0.043395
GGCT	5.746706	0.003072	0.03843	CRISPLD2	1.552842	0.003726	0.043411
CALD1	5.859478	0.003076	0.038453	GCAT	-2.03786	0.003728	0.043419
GRHL2	1.011126	0.003077	0.038466	AC004656.1	1.265332	0.003747	0.043523
EIF2AK2	1.105145	0.00308	0.038484	CYFIP1	-1.26319	0.003762	0.043531
RPL7A	-90.6763	0.003092	0.038583	PDLIM7	2.297539	0.003768	0.04358
RPS15	-44.0268	0.003097	0.038635	ATP5F1D	-10.9389	0.003778	0.043667
DEGS2	-2.50474	0.003098	0.038649	RAB7A	6.696985	0.003786	0.043692
AHCYL2	-2.76363	0.003132	0.038981	HNRNPUL2	1.268661	0.003795	0.043753
PADI3	1.197027	0.003149	0.039083	ZNF706	1.444048	0.003797	0.043756
PCMTD2	2.249151	0.003153	0.039116	UBE2Z	1.450633	0.003798	0.043763
SH3BGRL5	-22.4988	0.003163	0.039188	DNAJB11	1.226323	0.003804	0.043817
MORF4L2	8.967752	0.003175	0.039296	SEC13	-2.41999	0.003806	0.043823
FHL3	1.298463	0.003178	0.039325	ZFR	1.162527	0.003831	0.044022
MXRA8	3.185389	0.003188	0.039402	AC005261.1	1.090812	0.003831	0.044022
ZNF185	1.695038	0.003196	0.039466	WFDC2	-21.0653	0.003833	0.044028
GOLPH3L	-2.02436	0.003206	0.03954	USP11	1.593961	0.003839	0.044081
NUDT2	-2.34477	0.003222	0.039657	NUFIP2	1.938549	0.003845	0.044107
MIR647	2.733425	0.003229	0.039706	CHMP7	-1.00437	0.003845	0.044107
NANOS3	1.207333	0.003239	0.039737	ELOVL5	2.775332	0.00386	0.044193
HNRNP2	4.471228	0.003271	0.040004	ZBTB7B	-2.01048	0.003873	0.044314
HOXB3	1.507294	0.003271	0.040004	TRAF7	-3.25777	0.003883	0.044362
LTV1	1.780234	0.003274	0.040018	HUWE1	2.172935	0.003894	0.044423
SDR16C5	-2.14328	0.003298	0.040275	RPSA	-31.2123	0.003899	0.044433
VPS35	1.751962	0.003304	0.040318	PARM1	-6.21232	0.003903	0.044472
PPP4R2	1.202013	0.003305	0.040318	LBH	2.517033	0.003904	0.044472
AOAH	1.937224	0.003343	0.040602	TPP1	3.596012	0.003905	0.044472
BTG3	1.4687	0.003359	0.040701	WDR45	1.85732	0.003932	0.044684
MIR570	2.994834	0.003364	0.04072	ABCC1	1.466756	0.003961	0.044894
GPNMB	4.534895	0.003374	0.040776	ITPKA	-1.69064	0.003977	0.045031
EIF3L	-4.21595	0.003401	0.04101	AL035661.1	2.692611	0.004033	0.045436
SNX12	2.618822	0.003401	0.04101	TPM2	10.26427	0.004052	0.045583
TNS1	2.21348	0.003466	0.041499	RPRD1B	1.315845	0.004056	0.045589
C6orf120	1.061383	0.003484	0.041636	GABRE	1.083424	0.004063	0.045659
MRPS27	-1.29961	0.003505	0.041769	RTF2	3.64791	0.004092	0.045894
RPL12	-48.5162	0.003512	0.041805	TLR4	-1.1932	0.004094	0.045897
KLK12	-2.31941	0.003524	0.041894	GDPD5	1.15069	0.004122	0.046089

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<i>ID</i>	<i>logFC</i>	<i>p value</i>	<i>adj. p value</i>	<i>ID</i>	<i>logFC</i>	<i>p value</i>	<i>adj. p value</i>
GALE	-3.39477	0.004134	0.046194	SORD	-1.24445	0.004382	0.047763
USP9X	1.73861	0.00414	0.046241	AP1S1	-10.2763	0.004388	0.047799
SNORD14A	1.327273	0.00415	0.046308	SRD5A3	-1.12866	0.004421	0.048035
HOXD13	1.344915	0.004175	0.046474	ATL3	1.298404	0.004425	0.048063
MARCKS	4.982415	0.004192	0.046579	RAB31	2.896614	0.004435	0.048121
CD47	2.099777	0.004205	0.046666	MT-TT	1.841165	0.00446	0.048294
RAP2C	1.197802	0.004215	0.046747	YPEL5	2.012315	0.004473	0.048371
RPL13A	-111.418	0.004218	0.046752	SLC16A5	1.296705	0.004485	0.048449
RLIM	1.30342	0.00426	0.047065	PRPF40A	1.374948	0.004488	0.04847
AC108865.2	2.06147	0.004262	0.047077	BSPRY	-3.03812	0.004489	0.048472
SHF	-1.09983	0.004265	0.047081	AP003774.4	5.087966	0.004512	0.048604
PRKDC	3.066294	0.004284	0.047159	RFLNA	-2.56113	0.004522	0.048667
MFSD2A	-1.14629	0.004294	0.047224	STC2	1.31774	0.004563	0.048931
SATB2	1.945347	0.004306	0.047308	APH1A	-4.65247	0.004616	0.049338
SLC3A2	4.19146	0.00432	0.047373	HECTD3	-1.48372	0.004635	0.049418
PCSK1N	3.898556	0.004325	0.047403	SUDS3	1.043405	0.004648	0.049496
TRAM1	9.000826	0.004338	0.047494	EPS8L3	-5.90124	0.004653	0.049531
AKR7A3	-3.59061	0.004342	0.047505	ANG	-3.09031	0.004688	0.049758
COX6B1	-24.4823	0.004346	0.047522	FCGBP	-38.0252	0.004717	0.049941