Regulation	mRNA	logFC
Up	HOXD10	7.0657492
Up	SHOX2	6.8692629125
Up	POSTN	6.09422871
Up	TOP2A	6.0893005275
Up	HOXD11	5.95118
Up	HOXB3	5.941146115
Up	EN1	5.9337394
Up	HOXD9	5.82288678
Up	MKI67	5.741333395
Up	MYBL2	5.7330838375
Up	MEOX2	5.58859493
Up	STC2	5.380600925
Up	MMP9	5.3675641975
Up	NNMT	5.361172555
Up	ESPL1	5.2765701725
Up	ABCC3	5.18728671
Up	RRM2	5.0230804625
Up	TROAP	5.007641365
Up	CNGA3	4.991051825
Up	HOXC10	4.97072522
Up	FCGBP	4.93623435
Up	NKX2-5	4.9147794175
Up	GPX8	4.87912896
Up	KIF18B	4.848567365
Up	PLEKHA4	4.810283925
Up	BUB1	4.8051585975
Up	HOXD3	4.800507535
Up	APOL4	4.7762468325
Up	IGFBP2	4.770905175
Up	DLGAP5	4.76318599
Up	CENPF	4.7547078
Up	SIX1	4.73823713
Up	UHRF1	4.722056395
Up	CDCA2	4.6846211625
Up	CPXM1	4.6341451875
Up	AURKB	4.60474168
Up	IGF2BP3	4.57846774
Up	KNL1	4.54865113
Up	METTL7B	4.543538125
Up	COL4A1	4.522256625
Up	GTSE1	4.5156906375
Up	FOXJ1	4.511366245
Up	LIF	4.49293964
Up	TNC	4.4566955

Up	TGFBI	4.37856445
Up	UBE2C	4.3717389375
Up	NDC80	4.3698178775
Up	LHX9	4.3471907175
Up	KIF14	4.3430560075
Up	EGFR	4.331659675
Up	CA3	4.321852155
Up	CLEC5A	4.3146537875
Up	CKAP2L	4.3134822775
Up	CDC45	4.31232673
Up	VEGFA	4.308474775
Up	HAS2	4.3021974
Up	HOXC4	4.2792974575
Up	ASPM	4.275999295
Up	PRPH	4.273429215
Up	PTX3	4.2617011375
Up	HJURP	4.25461533
Up	MELK	4.233870305
Up	SEC61G	4.23323736
Up	PITX1	4.1629158975
Up	F2R	4.15841434
Up	SOX11	4.12669595
Up	TBX15	4.108832665
Up	NES	4.10766095
Up	VIM	4.080144725
Up	COL4A2	4.0720936
Up	IQGAP3	4.069798355
Up	HOXD8	4.06295478
Up	DPEP1	4.05861738
Up	RGS1	4.052365625
Up	LAMB4	4.0387621625
Up	CELSR1	4.029367395
Up	ADAMTS15	4.00583126
Up	NMB	4.004004245
Up	FN1	3.99036605
Up	NUSAP1	3.98086828
Up	KIFC1	3.9805313575
Up	MRC2	3.94620235
Up	LOX	3.930950765
Up	HLA-B	3.9165129
Up	DMRTA2	3.91578177
Up	C6orf118	3.907707765
Up	GSC	3.888107096
Up	SRPX2	3.872495115
Up	AGMO	3.862640035

Up	BUB1B	3.85593241
Up	CDCA7	3.854891355
Up	E2F7	3.8474414775
Up	ADM	3.843907515
Up	MCM10	3.83808836
Up	TMEM71	3.824802485
Up	AEBP1	3.817266475
Up	NCAPH	3.810941345
Up	ID3	3.810932175
Up	CEP55	3.80122487
Up	TXLNB	3.78633323
Up	CENPK	3.7568793425
Up	MMP14	3.747550475
Up	C1R	3.7415319
Up	KIF18A	3.736945425
Up	HOXD4	3.72406136
Up	ANXA1	3.712157875
Up	EVC2	3.71095253
Up	HOXD13	3.69889674
Up	FMOD	3.69278089
Up	MUC1	3.69199859
Up	ANXA2	3.68915865
Up	BATF2	3.6730301725
Up	TPX2	3.65574295
Up	TIMP1	3.6148791
Up	HLA-A	3.60677195
Up	E2F8	3.6058479475
Up	E2F2	3.59822102
Up	KIF4A	3.58448582
Up	TMEM45A	3.5669979325
Up	TNFRSF19	3.55851642
Up	KIAA0040	3.551492925
Up	OTP	3.5465570775
Up	GBP1	3.536066825
Up	CD44	3.534805625
Up	EMILIN1	3.52760865
Up	PLP2	3.481898475
Up	S100A10	3.47476795
Up	GDF15	3.471687505
Up	WEE1	3.464191995
Up	KLHDC8A	3.46282201
Up	DRAXIN	3.455048295
Up	BIRC5	3.443115435
Up	IGFBP5	3.427964575
Up	TTK	3.403961155

Up	SKA3	3.39905818
Up	ESM1	3.3582230575
Up	TNFAIP6	3.3424736875
Up	PLAU	3.3315551
Up	HOXC9	3.31581092
Up	TEAD2	3.30625698
Up	PDPN	3.30301845
Up	MDFI	3.300851785
Up	HS3ST3A1	3.299613795
Up	PXDN	3.293128625
Up	EMP3	3.258102255
Up	GAS1	3.253943745
Up	TGFB1I1	3.235992485
Up	TERT	3.23485864
Up	MACC1	3.23327676
Up	AJUBA	3.227771855
Up	F2RL1	3.2267239225
Up	APOC1	3.22662565
Up	KCNE4	3.226415685
Up	S1PR3	3.21738515
Up	SPC24	3.21073366
Up	CDKN2C	3.2062923
Up	HSPG2	3.20089775
Up	HILPDA	3.1992479
Up	EXO1	3.19430905
Up	KIF2C	3.192255375
Up	HOXA7	3.1818856
Up	SERPINH1	3.175263375
Up	SPATA12	3.173598945
Up	CA12	3.173235905
Up	IFI30	3.170732785
Up	CD101	3.168689675
Up	PLEKHG2	3.1659301
Up	ADAM12	3.157273725
Up	EDA2R	3.15625385
Up	BTN3A2	3.14893414
Up	DIAPH3	3.140926135
Up	C1RL	3.127257785
Up	OSR2	3.12592376
Up	TWIST1	3.109073755
Up	GABRR2	3.1024995675
Up	MCUB	3.09697865
Up	STAB1	3.09672675
Up	RAB20	3.092145475
Up	TAGLN2	3.08801915

Up	FKBP10	3.086555825
Up	FLNA	3.085601
Up	CDK1	3.07921718
Up	EXOC3L2	3.067968305
Up	CCDC80	3.0665228
Up	PYGL	3.055824805
Up	PRRX1	3.054233225
Up	ORC1	3.03514669
Up	TNFRSF12A	3.0309278
Up	ASF1B	3.0090595075
Up	S100A3	3.0036164725
Up	BGN	2.997843925
Up	NID1	2.997022165
Up	C21orf62	2.99416022
Up	RDH10	2.981971925
Up	HOXB6	2.96938626
Up	PGF	2.968779455
Up	RUNX1	2.961291025
Up	SLC5A9	2.9379386
Up	GLIS3	2.929798975
Up	LFNG	2.9235932
Up	CLEC18B	2.921453895
Up	BRCA2	2.921310305
Up	SAMD9L	2.91788115
Up	ESCO2	2.91458069
Up	ADAMTS7	2.91117239
Up	STEAP3	2.904755795
Up	VWA3B	2.89157614
Up	CRISPLD1	2.88287234
Up	TEAD4	2.882671715
Up	BCL3	2.87374501
Up	ADAMTS6	2.86771045
Up	SLC11A1	2.85642645
Up	CHRNA9	2.853806255
Up	SYTL4	2.853623225
Up	ADAM33	2.853186285
Up	SYDE1	2.8473885
Up	MEX3A	2.84395416
Up	CDC25A	2.8421116375
Up	CD93	2.8384397
Up	CEBPD	2.835310325
Up	CCDC169	2.831395365
Up	IL23A	2.8305394
Up	TFPI	2.82743341
Up	TACC3	2.82023263

Up	SLC28A1	2.81656167
Up	SNAI2	2.81386999
Up	TP53	2.81338546
Up	IKBIP	2.80818337
Up	SLFN12	2.80817763
Up	TMEM176A	2.80388426
Up	PLEK2	2.7961872575
Up	RCN3	2.795471705
Up	KIF15	2.79418975
Up	NLRC5	2.78302492
Up	IGDCC4	2.77916049
Up	SPARC	2.763869325
Up	TBX2	2.75864468
Up	RAD51	2.7575512925
Up	WWTR1	2.7560105
Up	APLN	2.753004425
Up	SPC25	2.7505407775
Up	CKS2	2.72837613
Up	EZH2	2.72794667
Up	ZBTB42	2.72430249
Up	TRIM22	2.718229475
Up	SYTL3	2.71150579
Up	SLC43A3	2.70364913
Up	ST14	2.700305475
Up	SIGLEC7	2.69300565
Up	IGSF9	2.6917344775
Up	CDCA7L	2.686493835
Up	ANXA5	2.683382875
Up	TRIP10	2.677906415
Up	HK2	2.675981725
Up	CXCR4	2.670968445
Up	LVRN	2.6704865075
Up	MDK	2.660454235
Up	S100A4	2.6593319
Up	SMO	2.647963675
Up	SOX4	2.647761875
Up	PARP9	2.631599875
Up	FBP1	2.6263961675
Up	EPHB4	2.623637695
Up	FSTL1	2.62262165
Up	TICRR	2.61762843
Up	SMIM3	2.616645555
Up	PTGIR	2.616152455
Up	ACKR3	2.615661235
Up	CENPU	2.61532131

Up	GPR84	2.6146931275
Up	CDK2	2.594054085
Up	IQGAP2	2.588366475
Up	DTX3L	2.58436455
Up	PCDHB9	2.5827848
Up	ITGA5	2.58098461
Up	TRIM5	2.58058509
Up	TMEM176B	2.57890189
Up	TMEM255A	2.577672935
Up	FAM20C	2.577084625
Up	LRRC25	2.576327525
Up	PABPC1L	2.569301425
Up	LDLRAD2	2.56482064
Up	CSRP2	2.563160665
Up	PTTG1	2.555464415
Up	PLOD2	2.555448525
Up	PCDHB16	2.55321187
Up	PLTP	2.54999225
Up	PPP1R13L	2.549865915
Up	HELZ2	2.54869805
Up	SERPING1	2.542340775
Up	ZNF217	2.540693725
Up	NKX3-2	2.53673126
Up	LHCGR	2.53289166
Up	S100A6	2.528992305
Up	CBX2	2.52896945
Up	PCDHB7	2.528050765
Up	CD99	2.5263296
Up	JAG1	2.52538175
Up	NTN1	2.520798825
Up	SAMD9	2.51704902
Up	PLSCR1	2.514506355
Up	RHOC	2.513181575
Up	SPSB4	2.511555025
Up	ONECUT1	2.5091076075
Up	CASP1	2.500100115
Up	CDK6	2.494618525
Up	FOXD1	2.494449365
Up	HPD	2.48418066
Up	PALLD	2.4792684
Up	BMF	2.47878302
Up	MFNG	2.47445767
Up	SPATA13	2.4736554025
Up	PCDHB1	2.470410675
Up	APOL6	2.468719625

Up	IFI16	2.46815835
Up	MGAM	2.468039565
Up	NEIL3	2.465718175
Up	POU3F4	2.464371385
Up	HS3ST3B1	2.458012135
Up	SLC2A10	2.4552785
Up	ZFP36L2	2.449145875
Up	SP140L	2.447137845
Up	TGIF1	2.44421344
Up	CCDC102A	2.442341505
Up	FXYD2	2.44034118
Up	VCAN	2.435543
Up	OSMR	2.434111775
Up	PLK4	2.43288947
Up	NOTCH3	2.432012425
Up	ADAMTS9	2.422341975
Up	FANCD2	2.421535845
Up	TEKT2	2.410041375
Up	GDPD2	2.40536214
Up	TXNDC2	2.395806185
Up	FNDC3B	2.3954034
Up	CLEC18A	2.38850165
Up	SP100	2.38842715
Up	CCDC103	2.38812122
Up	CD248	2.380473235
Up	TRIP6	2.37688955
Up	KIF7	2.37300718
Up	CXCL11	2.36866146
Up	C1orf226	2.36582437
Up	ITGB3	2.356784735
Up	PGGHG	2.354425475
Up	NMI	2.3527884
Up	PCDHGA1	2.35057632
Up	TRIM6	2.3486756225
Up	ABI3	2.34305783
Up	FAM187A	2.34182631
Up	OAS3	2.3413296
Up	DNAAF3	2.324110535
Up	PRR15	2.3236844375
Up	PPP1R3B	2.32097653
Up	EIF4EBP1	2.31848644
Up	CASP4	2.315827235
Up	KIF11	2.31102906
Up	NCF4	2.308586515
Up	SERINC2	2.30602703

Up	AOC1	2.3052884525
Up	TGIF2	2.29954656
Up	GLIPR2	2.298991225
Up	CSPG4	2.29586959
Up	PRDX4	2.29539407
Up	GSX2	2.29501402
Up	VCAM1	2.292554265
Up	APOBEC3G	2.290949615
Up	ACRV1	2.28851704
Up	RAD51AP1	2.288028135
Up	TGM5	2.2877097
Up	PLIN2	2.287098905
Up	STON1-GTF2A1L	2.28425997
Up	ARHGAP11A	2.2842459
Up	ABCA1	2.2836892
Up	FHL3	2.28277992
Up	YBX3	2.28267809
Up	TCAF2	2.28034952
Up	TNFRSF10B	2.27896614
Up	LAMB2	2.27527205
Up	TRIM56	2.273071
Up	TCIRG1	2.271984885
Up	EFEMP1	2.26768371
Up	GSDMD	2.26636367
Up	LPL	2.261950325
Up	C2orf66	2.2612181475
Up	AFAP1L1	2.25723298
Up	DNALI1	2.25593628
Up	CLEC18C	2.255749045
Up	PCDHB3	2.25052181
Up	TM6SF2	2.2492891925
Up	OAS1	2.24831843
Up	GINS4	2.24509598
Up	BTN3A1	2.242791375
Up	MASP1	2.241415785
Up	DNAJC22	2.23976076
Up	PRR11	2.23819316
Up	PCDHB8	2.229748135
Up	CENPI	2.224908345
Up	RPS19	2.2236319
Up	LYPD1	2.21446979
Up	GPR39	2.210783965
Up	CACNA2D4	2.2061408625
Up	FBN3	2.19616861
Up	CHST4	2.19530442

Up	GGT5	2.19431255
Up	IFITM3	2.191992825
Up	MSN	2.19076069999999
Up	SIX5	2.190561485
Up	CALD1	2.18987285
Up	EVC	2.189081575
Up	MYC	2.18898258
Up	SLC1A5	2.182315035
Up	CASZ1	2.1798857
Up	TLE6	2.17865386
Up	APCDD1L	2.177378725
Up	CD48	2.1768553775
Up	OLFML2A	2.174794845
Up	FAM111A	2.1731659
Up	TMEM154	2.172385995
Up	NT5DC2	2.17157731
Up	GBX2	2.1698997875
Up	SPRY1	2.16906218
Up	TNFRSF1A	2.167742275
Up	DPYSL3	2.1654716
Up	TNIP2	2.163364385
Up	SLC47A2	2.16178617
Up	ID4	2.157434
Up	CABP4	2.15740994
Up	SH3BP2	2.15388745
Up	S1PR2	2.15099538
Up	HMG20B	2.15037392
Up	FCGRT	2.14504555
Up	MYD88	2.141725895
Up	PSRC1	2.139027855
Up	CDCA5	2.138981215
Up	ANTXR2	2.13485667
Up	EGFLAM	2.134728435
Up	FKBP7	2.13368954
Up	RHOJ	2.132664685
Up	CISH	2.13104718
Up	LTBP1	2.1242282
Up	CD1D	2.124072695
Up	BTN3A3	2.12375769
Up	FLT4	2.123639635
Up	ZAP70	2.12115183
Up	HOXA11	2.12026302
Up	SYNE2	2.1180543
Up	ZAR1	2.109522355
Up	MICA	2.10816691

Up	FLNC	2.10696235
Up	SH2D3A	2.105060165
Up	RREB1	2.1050397
Up	CMTM3	2.104660715
Up	ITGB8	2.10026785
Up	CLECL1	2.0988293975
Up	TRIM47	2.09826555
Up	PDIA4	2.098251875
Up	STON1	2.095862695
Up	LAMA4	2.088680325
Up	MCM2	2.08808041
Up	TMCO4	2.08618046
Up	G0S2	2.085992035
Up	PHKG1	2.08465093
Up	RND3	2.082098755
Up	RAB13	2.08116014
Up	TBXA2R	2.07909438
Up	EFNA4	2.07297571
Up	ZC3HAV1	2.066279375
Up	ECM2	2.062704165
Up	LAMC1	2.055234975
Up	PPP1R14B	2.05493321
Up	PHLDA1	2.0524911
Up	ITPRIPL1	2.05142681
Up	THBS3	2.050929935
Up	GBE1	2.05045615
Up	PARP14	2.048726125
Up	KCNQ1	2.048548355
Up	PPIC	2.045516625
Up	APOBEC3B	2.0419594175
Up	BOC	2.03930328
Up	ADGRE2	2.03867103
Up	CD300A	2.038358705
Up	TCF3	2.03742302
Up	PDLIM4	2.036369505
Up	LIMD1	2.03010667
Up	POFUT1	2.028024025
Up	STK32B	2.02605244
Up	HOXD12	2.02387066
Up	EFEMP2	2.02328335
Up	CASP6	2.01790071
Up	PCDHB11	2.01764375
Up	DENND2A	2.015998225
Up	BCL2L12	2.014853755
Up	ASAP3	2.01340623

Up	MCM7	2.011069315
Up	STK17B	2.00921642
Up	PRKD2	2.008413365
Up	AURKA	2.00461108
Up	DRAM1	2.003882195
Up	MYO7A	2.00207259
Up	GNG5	2.00010207

Regulation	**mRNA**	**logFC**
Down	RELN	-8.56838372
Down	GRIN1	-8.298311227
Down	UNC13C	-8.0413108
Down	OPALIN	-7.944347485
Down	GABRA1	-7.89202856
Down	MOBP	-7.85160668
Down	RASGRF1	-7.756797675
Down	SLC17A7	-7.75317665
Down	TRHDE	-7.69649696
Down	GABRB2	-7.55847555
Down	KCNJ3	-7.49036963
Down	KSR2	-7.455946395
Down	HCN1	-7.36340519
Down	NEFM	-7.33677261
Down	MAG	-7.27412557
Down	GABRG2	-7.268722525
Down	SPOCK3	-7.25506684
Down	SV2B	-7.20935677
Down	PCLO	-7.147340235
Down	VSNL1	-7.1261632
Down	SYT4	-7.10760172
Down	FSTL5	-7.02178966
Down	PAK5	-7.014026075
Down	PACSIN1	-6.985024165
Down	CDH18	-6.980432295
Down	GRM4	-6.97813627
Down	RYR2	-6.97280534
Down	WSCD2	-6.89336112
Down	FAM153B	-6.819291836
Down	GABRG1	-6.79233569
Down	MAL2	-6.790164755
Down	SH3GL3	-6.75285732
Down	SYNPR	-6.750816084
Down	SH3GL2	-6.72712169
Down	OLFM3	-6.718117082
Down	CSMD3	-6.69771395

Down	SYT13	-6.6809363
Down	FRMPD4	-6.634365795
Down	HS6ST3	-6.63325505
Down	SNAP25	-6.62773357
Down	SLITRK4	-6.624826565
Down	GRM1	-6.623890185
Down	SYT1	-6.60510932
Down	AMER3	-6.58639141
Down	ATP8A2	-6.57787884
Down	TMEM130	-6.57763123
Down	LGI3	-6.57274616
Down	SULT4A1	-6.566261465
Down	RIMS2	-6.55950396
Down	SRRM4	-6.55368283
Down	CACNA1B	-6.51467584
Down	CKMT1A	-6.51448954
Down	RIMS1	-6.49476809
Down	SNAP91	-6.47662542
Down	NDST3	-6.445071165
Down	GAD2	-6.404822635
Down	HRH3	-6.393667325
Down	AFF2	-6.39126272
Down	ATP2B3	-6.36718723
Down	CDH7	-6.3598857
Down	SLC6A15	-6.31602882
Down	ASIC2	-6.283390465
Down	SVOP	-6.245636045
Down	RBFOX1	-6.22834926
Down	NEFL	-6.223437905
Down	NKAIN2	-6.184106545
Down	EPHA6	-6.17490993
Down	CBLN1	-6.168931325
Down	SLC8A2	-6.167068695
Down	FAM153A	-6.165414785
Down	SLC12A5	-6.16402957
Down	GABRB3	-6.13975725
Down	KCNJ12	-6.112829314
Down	UNC5D	-6.1074281
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Down	SCAI	-2.03456144
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Down	INPP5A	-2.03245887
Down	REEP1	-2.02636003
Down	C14orf180	-2.023866765
Down	TPRG1L	-2.02354589

Down	SLC3A1	-2.019688845
Down	KIF3A	-2.01873138
Down	SSX2IP	-2.01802961
Down	LHPP	-2.015639835
Down	BSPRY	-2.015096187
Down	ECE2	-2.01475618
Down	SLC9A6	-2.01437101
Down	MRLN	-2.014050475
Down	PSG5	-2.01090514
Down	NAT8L	-2.008174
Down	RAP1GAP	-2.00513375
Down	MTMR8	-2.003201232