

Additional File 8. Down-regulated genes in cells exposed to Hydrogel for 48 h. Fold-change is logarithmic ratio (\log_2 ratio) to expression level in control.

GeneName	Description	Fold-change (\log_2 ratio)
ID2	Homo sapiens inhibitor of DNA binding 2, dominant negative helix-loop-helix protein (ID2), mRNA [NM_002166]	-3.766
TRIM73	Homo sapiens tripartite motif-containing 73, mRNA (cDNA clone IMAGE:5181460). [BC033812]	-2.989
HERC3	Homo sapiens hect domain and RLD 3, mRNA (cDNA clone IMAGE:6050308),. [BC038960]	-2.902
LOC100128519	Homo sapiens misc_RNA (LOC100128519), miscRNA [XR_038473]	-2.824
CDC14A	Homo sapiens CDC14 cell division cycle 14 homolog A (S. cerevisiae) (CDC14A), mRNA [NM_003672]	-2.654
HSPD1P5	Homo sapiens misc_RNA (LOC345041), miscRNA [XR_018747]	-2.601
LOC389992	Homo sapiens similar to hCG2040259 (LOC389992), mRNA [XM_001720568]	-2.482
SOCS1	Homo sapiens suppressor of cytokine signaling 1 (SOCS1), mRNA [NM_003745]	-2.459
LOC100132658	Homo sapiens misc_RNA (LOC100132658), miscRNA [XR_038952]	-2.428
EFCAB10	Homo sapiens cDNA clone IMAGE:6616931, partial cds. [BC062748]	-2.424
TCF7L2	Homo sapiens transcription factor 7-like 2 (T-cell specific, HMG-box) (TCF7L2), mRNA [NM_030756]	-2.422
LOC653071	Homo sapiens similar to CG32820-PA, isoform A, mRNA (cDNA clone IMAGE:4812880), [BC068588]	-2.376
LOC343495	Homo sapiens misc_RNA (LOC343495), miscRNA [XR_016540]	-2.374
LOC646446	Homo sapiens similar to hCG2040301 (LOC646446), mRNA [XM_001722653]	-2.322
ZNF737	Homo sapiens zinc finger protein 737, mRNA (cDNA clone IMAGE:4854518), [BC015765]	-2.317
ARVCF	Homo sapiens armadillo repeat gene deletes in velocardiofacial syndrome (ARVCF), mRNA [NM_001670]	-2.299
LOC344178	Homo sapiens similar to hCG1794703 (LOC344178), mRNA [XM_001721796]	-2.285
LOC100132086	Homo sapiens misc_RNA (LOC100132086), miscRNA [XR_037769]	-2.270
UBE2D3P	Homo sapiens similar to Putative ubiquitin-conjugating enzyme E2 D3-like protein (LOC100128647), mRNA [XM_001725173]	-2.261
DAGLA	Homo sapiens diacylglycerol lipase, alpha (DAGLA), mRNA [NM_006133]	-2.241
KIAA0492	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0492. [AB007961]	-2.239
LOC392335	Homo sapiens misc_RNA (LOC392335), miscRNA [XR_037043]	-2.207
ZNF509	Homo sapiens zinc finger protein 509 (ZNF509), mRNA [NM_145291]	-2.192
LOC653773	Homo sapiens misc_RNA (LOC653773), partial miscRNA [XR_042355]	-2.162
MAGEA1	Homo sapiens melanoma antigen family A, 1 (directs expression of antigen MZ2-E) (MAGEA1), mRNA [NM_004988]	-2.158
LOC392382	Homo sapiens misc_RNA (LOC392382), miscRNA [XR_019110]	-2.146
ZNF486	Homo sapiens zinc finger protein 486 (ZNF486), mRNA [NM_052852]	-2.132

SAR1P3	Homo sapiens SAR1 gene homolog (<i>S. cerevisiae</i>) pseudogene 3 (SAR1P3), mRNA [XM_001714154]	-2.114
LOC728344	Homo sapiens misc_RNA (LOC728344), miscRNA [XR_018424]	-2.054
LOC643015	Homo sapiens misc_RNA (LOC643015), miscRNA [XR_018290]	-2.039
LOC283523	Homo sapiens similar to telomeric repeat binding factor (NIMA-interacting) 1 (LOC283523), mRNA [XM_001714856]	-2.030
LOC441666	Homo sapiens zinc finger protein 91 pseudogene (LOC441666), non-coding RNA [NR_024380]	-2.025
FLJ11292	Homo sapiens hypothetical protein FLJ11292, mRNA (cDNA clone MGC:151043 IMAGE:40125985). [BC117434]	-2.016
FKSG2	Homo sapiens apoptosis inhibitor (FKSG2), mRNA [NM_021631]	-2.014
SNHG10	Homo sapiens small nucleolar RNA host gene 10 (non-protein coding) (SNHG10), non-coding RNA [NR_003138]	-2.012
LOC728774	Homo sapiens similar to hCG1994130 (LOC728774), mRNA [XM_001129390]	-1.980
LOC100128701	Homo sapiens misc_RNA (LOC100128701), miscRNA [XR_037462]	-1.960
LOC648795	Homo sapiens hypothetical LOC648795 (LOC648795), mRNA [XM_001717954]	-1.959
LOC645294	Homo sapiens misc_RNA (LOC645294), miscRNA [XR_019042]	-1.956
LOC645231	Full-length cDNA clone CS0DI026YJ08 of Placenta Cot 25-normalized of Homo sapiens (human). [CR590757]	-1.949
ID1	Homo sapiens inhibitor of DNA binding 1, dominant negative helix-loop-helix protein (ID1), mRNA [NM_002165]	-1.943
LOC390413	Homo sapiens misc_RNA (LOC390413), miscRNA [XR_018341]	-1.942
KIAA0802	Homo sapiens KIAA0802 (KIAA0802), mRNA [NM_015210]	-1.939
LOC100128266	Homo sapiens misc_RNA (LOC100128266), miscRNA [XR_037888]	-1.938
ZNF43	Homo sapiens zinc finger protein 43 (ZNF43), mRNA [NM_003423]	-1.929
FAM179A	Homo sapiens family with sequence similarity 179, member A (FAM179A), mRNA [NM_199280]	-1.927
RNF215	Homo sapiens ring finger protein 215 (RNF215), mRNA [NM_001017981]	-1.924
SPATA9	Homo sapiens cDNA FLJ35906 fis, clone TESTI2009727. [AK093225]	-1.900
LOC100128626	Homo sapiens misc_RNA (LOC100128626), miscRNA [XR_038662]	-1.899
LOC203510	Homo sapiens similar to hCG1644442 (LOC203510), mRNA [XM_001719132]	-1.895
ARNT2	Homo sapiens aryl-hydrocarbon receptor nuclear translocator 2 (ARNT2), mRNA [NM_014862]	-1.892
C18orf32	Homo sapiens chromosome 18 open reading frame 32 (C18orf32), mRNA [NM_001035005]	-1.890
C5orf36	Homo sapiens chromosome 5 open reading frame 36 (C5orf36), mRNA [NM_173665]	-1.883
GOLGA8E	Homo sapiens golgi autoantigen, golgin subfamily a, 8E (GOLGA8E), mRNA [NM_001012423]	-1.865
LOC391282	Homo sapiens similar to ribosomal protein L23a (LOC391282), mRNA [XM_372878]	-1.858
ZCRB1	Homo sapiens zinc finger CCHC-type and RNA binding motif 1 (ZCRB1),	-1.847

	mRNA [NM_033114]	
LOC390876	Homo sapiens similar to ribosomal protein L35 (LOC390876), mRNA [XM_001718967]	-1.832
PABPC3	Homo sapiens poly(A) binding protein, cytoplasmic 3 (PABPC3), mRNA [NM_030979]	-1.828
RPS12	Homo sapiens ribosomal protein S12 (RPS12), mRNA [NM_001016]	-1.817
tcag7.873	Homo sapiens hypothetical LOC402644 (LOC402644), mRNA [NM_001126493]	-1.814
LOC729332	Homo sapiens hypothetical LOC729332 (LOC729332), mRNA [XM_001129827]	-1.813
CBWD6	Homo sapiens clone 1659351 unknown mRNA. [AF293368]	-1.800
GSPT2	Homo sapiens G1 to S phase transition 2 (GSPT2), mRNA [NM_018094]	-1.787
ESF1	Homo sapiens ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae) (ESF1), mRNA [NM_016649]	-1.785
LOC100131323	Homo sapiens misc_RNA (LOC100131323), miscRNA [XR_039461]	-1.774
LOC100130794	Homo sapiens similar to NADH dehydrogenase [ubiquinone] iron-sulfur protein 5 (NADH-ubiquinone oxidoreductase 15 kDa subunit) (CI-15 kDa) (LOC100130794), mRNA [XM_001724177]	-1.759
PL-5283	Homo sapiens PL-5283 protein (PL-5283), mRNA [NM_001130929]	-1.754
LOC100130518	Zinc finger protein ENSP00000350085 [Source:UniProtKB/Swiss-Prot;Acc:A6NN14] [ENST00000357491]	-1.750
PARP4	Homo sapiens poly (ADP-ribose) polymerase family, member 4 (PARP4), mRNA [NM_006437]	-1.747
RPS6P1	Homo sapiens misc_RNA (RPS6P1), miscRNA [XR_016837]	-1.744
ZNF479	Homo sapiens zinc finger protein 479 (ZNF479), mRNA [NM_033273]	-1.743
FTMT	Homo sapiens ferritin mitochondrial (FTMT), nuclear gene encoding mitochondrial protein, mRNA [NM_177478]	-1.738
LOC388532	Homo sapiens hypothetical LOC388532 (LOC388532), mRNA [XM_001721671]	-1.723
LOC643981	Homo sapiens misc_RNA (LOC643981), miscRNA [XR_018444]	-1.718
ANKRD50	Homo sapiens ankyrin repeat domain 50 (ANKRD50), mRNA [NM_020337]	-1.715
MYSM1	Homo sapiens mRNA for KIAA1915 protein, partial cds. [AB067502]	-1.712
POLB	Homo sapiens polymerase (DNA directed), beta (POLB), mRNA [NM_002690]	-1.704
TCEB1P3	Homo sapiens transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C) pseudogene 3 (TCEB1P3), mRNA [XM_927664]	-1.700
LOC646999	Homo sapiens hypothetical LOC646999 (LOC646999), non-coding RNA [NR_024390]	-1.697
LOC220429	Homo sapiens CTAGE family, member 5 pseudogene, mRNA (cDNA clone IMAGE:5270026). [BC030655]	-1.695
SUMO1P3	Homo sapiens SUMO1 pseudogene 3 (SUMO1P3), non-coding RNA [NR_002190]	-1.689
LOC100130211	Homo sapiens similar to translation elongation factor 1 alpha 1-like 14 (LOC100130211), mRNA [XM_001717632]	-1.681

LOC126235	Full-length cDNA clone CS0DE004YN04 of Placenta of Homo sapiens (human). [CR622909]	-1.676
LOC400061	Homo sapiens misc_RNA (LOC400061), miscRNA [XR_019557]	-1.671
LOC100129743	Homo sapiens similar to hCG2042936 (LOC100129743), mRNA [XM_001719980]	-1.642
LPAL2	Homo sapiens lipoprotein, Lp(a)-like 2 (LPAL2), mRNA [NM_145727]	-1.635
NACAP1	Homo sapiens nascent-polypeptide-associated complex alpha polypeptide pseudogene 1 (NACAP1), non-coding RNA [NR_002182]	-1.621
LOC400750	Homo sapiens misc_RNA (LOC400750), miscRNA [XR_039070]	-1.619
ZNF319	Homo sapiens zinc finger protein 319 (ZNF319), mRNA [NM_020807]	-1.603
HIST1H3J	Homo sapiens histone cluster 1, H3j (HIST1H3J), mRNA [NM_003535]	-1.601
TMEM129	Homo sapiens transmembrane protein 129 (TMEM129), mRNA [NM_138385]	-1.596
LOC100131149	Homo sapiens misc_RNA (LOC100131149), miscRNA [XR_039101]	-1.595
NUDT12	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 12 (NUDT12), mRNA [NM_031438]	-1.593
LOC643205	Homo sapiens hypothetical LOC643205 (LOC643205), mRNA [XM_001716733]	-1.592
LOC100128203	Homo sapiens similar to hCG2040272 (LOC100128203), mRNA [XM_001715724]	-1.590
ITM2B	Homo sapiens integral membrane protein 2B (ITM2B), mRNA [NM_021999]	-1.588
FAM175B	Homo sapiens family with sequence similarity 175, member B (FAM175B), mRNA [NM_032182]	-1.586
LOC442459	Homo sapiens X-ray repair complementing defective repair pseudogene (LOC442459), non-coding RNA [NR_024608]	-1.586
TRIM66	Homo sapiens tripartite motif-containing 66 (TRIM66), mRNA [NM_014818]	-1.585
ZNF667	Homo sapiens zinc finger protein 667 (ZNF667), mRNA [NM_022103]	-1.582
SMN2	Homo sapiens survival of motor neuron 2, centromeric (SMN2), mRNA [NM_022877]	-1.578
CCDC68	Homo sapiens coiled-coil domain containing 68 (CCDC68), mRNA [NM_025214]	-1.570
LOC100131581	Homo sapiens cDNA FLJ35225 fis, clone PROST2001116. [AK092544]	-1.570
hCG_1771830	Homo sapiens zinc finger protein LOC654254 (LOC654254), mRNA [NM_001137608]	-1.568
LOC728927	Homo sapiens cDNA FLJ57041 complete cds, moderately similar to Zinc finger protein 92. [AK301806]	-1.566
RPL31P10	Homo sapiens misc_RNA (RPL31P10), miscRNA [XR_018695]	-1.560
LOC730167	Homo sapiens similar to protein tyrosine phosphatase 4a1 (LOC730167), mRNA [XM_001134097]	-1.552
ZNF141	Homo sapiens zinc finger protein 141 (ZNF141), mRNA [NM_003441]	-1.545
LOC729046	PREDICTED: Homo sapiens misc_RNA (LOC729046), miscRNA [XR_015710]	-1.538
LOC130728	PREDICTED: Homo sapiens misc_RNA (LOC130728), miscRNA [XR_019248]	-1.535
LOC100129720	Full-length cDNA clone CS0DI044YN21 of Placenta Cot 25-normalized of Homo sapiens (human). [CR619772]	-1.534

FBXO10	Homo sapiens F-box protein 10 (FBXO10), mRNA [NM_012166]	-1.530
LOC646973	PREDICTED: Homo sapiens similar to eukaryotic translation elongation factor 1 beta 2 (LOC646973), mRNA [XR_019410]	-1.526
TBC1D3B	Homo sapiens TBC1 domain family, member 3B (TBC1D3B), mRNA [NM_001001417]	-1.523
LOC730834	DB090170 TESTI4 Homo sapiens cDNA clone TESTI4038997 5', mRNA sequence [DB090170]	-1.517
WWC2	Homo sapiens WW and C2 domain containing 2 (WWC2), mRNA [NM_024949]	-1.513
ZNF442	Homo sapiens zinc finger protein 442 (ZNF442), mRNA [NM_030824]	-1.512
LOC376693	Homo sapiens hypothetical LOC376693, mRNA (cDNA clone MGC:45392 IMAGE:5526694), complete cds. [BC030568]	-1.503
TBX3	Homo sapiens T-box 3 (TBX3), transcript variant 2, mRNA [NM_016569]	-1.495
LOC344328	Homo sapiens misc_RNA (LOC344328), miscRNA [XR_019373]	-1.491
LOC644384	full-length cDNA clone CSODI028YD16 of Placenta Cot 25-normalized of Homo sapiens (human). [CR595167]	-1.483
LOC100128328	Homo sapiens hypothetical protein LOC100128328 (LOC100128328), mRNA [XM_001715053]	-1.482
LOC341378	Homo sapiens similar to Golgi-associated microtubule-binding protein (LOC341378), mRNA [XM_001715424]	-1.473
LOC646993	Homo sapiens similar to high-mobility group box 3 (LOC646993), mRNA [XM_929965]	-1.469
RASSF5	Homo sapiens Ras association (RalGDS/AF-6) domain family member 5 (RASSF5), mRNA [NM_182663]	-1.467
RPL31P4	Homo sapiens misc_RNA (LOC729646), miscRNA [XR_037308]	-1.456
SNRPG	Homo sapiens small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA [NM_003096]	-1.455
HSP90AB6P	Homo sapiens heat shock protein 90Bf (HSP90Bf) mRNA, complete cds. [AY956767]	-1.450
ZNF665	Homo sapiens zinc finger protein 665 (ZNF665), mRNA [NM_024733]	-1.448
LOC729684	Homo sapiens misc_RNA (LOC729684), miscRNA [XR_039360]	-1.447
ZNF730	Homo sapiens cDNA FLJ16640 fis, clone TESTI4028938, moderately similar to Zinc finger protein 85. [AK131472]	-1.447
ANO8	Homo sapiens anoctamin 8 (ANO8), mRNA [NM_020959]	-1.444
LOC646909	Homo sapiens misc_RNA (LOC646909), miscRNA [XR_019013]	-1.442
LOC100129742	Homo sapiens misc_RNA (LOC100129742), miscRNA [XR_036968]	-1.437
SSBP1	Homo sapiens single-stranded DNA binding protein 1 (SSBP1), mRNA [NM_003143]	-1.434
PTBP1	Homo sapiens polypyrimidine tract binding protein 1 (PTBP1), mRNA [NM_002819]	-1.418
RPL32P3	Homo sapiens ribosomal protein L32 pseudogene 3 (RPL32P3), non-coding RNA [NR_003111]	-1.417
ZNF850P	Homo sapiens mRNA; cDNA DKFZp686J154 (from clone DKFZp686J154).	-1.416

	[CR627133]	
FRG1B	Homo sapiens FSHD region gene 1 family, member B (FRG1B), non-coding RNA [NR_003579]	-1.414
C9orf41	UPF0586 protein C9orf41 [Source:UniProtKB/Swiss-Prot;Acc:Q8N4J0] [ENST00000376834]	-1.412
LOC100132439	Homo sapiens similar to Protein FAM27E3 (LOC100132439), mRNA [XM_001719283]	-1.411
C3orf64	Homo sapiens chromosome 3 open reading frame 64 (C3orf64), mRNA [NM_173654]	-1.405
ZNF728	Homo sapiens similar to Zinc finger protein 208 (LOC388523), mRNA [XM_001726961]	-1.405
EIF1AY	Homo sapiens eukaryotic translation initiation factor 1A, Y-linked (EIF1AY), mRNA [NM_004681]	-1.392
LOC442160	Homo sapiens misc_RNA (LOC442160), miscRNA [XR_042339]	-1.386
LOC100128974	Homo sapiens misc_RNA (LOC100128974), miscRNA [XR_037045]	-1.382
GARS	Homo sapiens glycyl-tRNA synthetase (GARS), mRNA [NM_002047]	-1.374
FMC1	Homo sapiens formation of mitochondrial complexes 1 homolog (S. cerevisiae) (FMC1), nuclear gene encoding mitochondrial protein, mRNA [NM_197964]	-1.369
ATP6V1C2	Homo sapiens ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C2 (ATP6V1C2), mRNA [NM_001039362]	-1.368
LOC389842	Homo sapiens similar to RanBP1 (LOC389842), mRNA [XM_372200]	-1.366
ZNF675	Homo sapiens zinc finger protein 675 (ZNF675), mRNA [NM_138330]	-1.364
MGC3207	Homo sapiens translation initiation factor eIF-2B subunit alpha/beta/delta-like protein (MGC3207), mRNA [NM_001031727]	-1.363
BAG4	BAG family molecular chaperone regulator 4 (Bcl-2-associated athanogene 4) [Source:UniProtKB/Swiss-Prot;Acc:O95429] [ENST00000287322]	-1.359
ZNF680	Homo sapiens zinc finger protein 680 (ZNF680), mRNA [NM_178558]	-1.358
LOC401602	Homo sapiens misc_RNA (LOC401602), miscRNA [XR_018322]	-1.357
LMNB2	Homo sapiens lamin B2 (LMNB2), mRNA [NM_032737]	-1.355
CENPK	Homo sapiens centromere protein K (CENPK), mRNA [NM_022145]	-1.351
hCG_18290	Homo sapiens hCG18290 (LOC644907), mRNA [NM_001090027]	-1.350
LOC100131737	Homo sapiens misc_RNA (LOC100131737), miscRNA [XR_038332]	-1.350
TRUB1	Homo sapiens TruB pseudouridine (psi) synthase homolog 1 (E. coli) (TRUB1), mRNA [NM_139169]	-1.342
LOC257039	Homo sapiens similar to hCG2040268 (LOC257039), mRNA [XM_172230]	-1.338
DKFZp313P036	Homo sapiens mRNA; cDNA DKFZp313P036 (from clone DKFZp313P036). [BX537874]	-1.335
LOC100130289	Homo sapiens misc_RNA (LOC100130289), miscRNA [XR_039183]	-1.333
HEATR5A	Homo sapiens HEAT repeat containing 5A (HEATR5A), mRNA [NM_015473]	-1.330
LOC730107	Homo sapiens similar to Glycine cleavage system H protein, mitochondrial (LOC730107), mRNA [XM_001721064]	-1.329
LRP5L	Homo sapiens low density lipoprotein receptor-related protein 5-like (LRP5L), mRNA [NM_182492]	-1.326

TBX15	Homo sapiens T-box 15 (TBX15), mRNA [NM_152380]	-1.326
ZNF429	Homo sapiens zinc finger protein 429 (ZNF429), mRNA [NM_001001415]	-1.324
USP38	Homo sapiens ubiquitin specific peptidase 38 (USP38), mRNA [NM_032557]	-1.323
LOC100130171	Homo sapiens misc_RNA (LOC100130171), miscRNA [XR_038676]	-1.322
EIF1B	Homo sapiens eukaryotic translation initiation factor 1B (EIF1B), mRNA [NM_005875]	-1.317
PMCH	Homo sapiens pro-melanin-concentrating hormone (PMCH), mRNA [NM_002674]	-1.315
C10orf140	Homo sapiens chromosome 10 open reading frame 140 (C10orf140), mRNA [NM_207371]	-1.304
ABCD4	Homo sapiens ATP-binding cassette, sub-family D (ALD), member 4 (ABCD4), transcript variant 1, mRNA [NM_005050]	-1.301
DHX40	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 40 (DHX40), mRNA [NM_024612]	-1.301
ZNF85	Homo sapiens zinc finger protein 85 (ZNF85), mRNA [NM_003429]	-1.292
tcag7.1239	Homo sapiens misc_RNA (LOC643438), miscRNA [XR_015268]	-1.290
ZFP36L2	Homo sapiens zinc finger protein 36, C3H type-like 2 (ZFP36L2), mRNA [NM_006887]	-1.289
LOC641844	Homo sapiens misc_RNA (LOC641844), miscRNA [XR_018036]	-1.284
TMEM56	Homo sapiens transmembrane protein 56 (TMEM56), mRNA [NM_152487]	-1.281
KIAA0831	Homo sapiens KIAA0831 (KIAA0831), mRNA [NM_014924]	-1.279
CRYAA	Homo sapiens crystallin, alpha A (CRYAA), mRNA [NM_000394]	-1.275
RECQL	Homo sapiens RecQ protein-like (DNA helicase Q1-like) (RECQL), transcript variant 2, mRNA [NM_032941]	-1.275
SAMHD1	Homo sapiens SAM domain and HD domain 1 (SAMHD1), mRNA [NM_015474]	-1.271
ZNF676	Homo sapiens zinc finger protein 676 (ZNF676), mRNA [NM_001001411]	-1.271
MICALCL	Homo sapiens MICAL C-terminal like (MICALCL), mRNA [NM_032867]	-1.270
C10orf10	Homo sapiens chromosome 10 open reading frame 10 (C10orf10), mRNA [NM_007021]	-1.269
LOC642550	Homo sapiens misc_RNA (LOC642550), miscRNA [XR_019531]	-1.269
INTS2	Homo sapiens integrator complex subunit 2 (INTS2), mRNA [NM_020748]	-1.268
USP11	Homo sapiens ubiquitin specific peptidase 11 (USP11), mRNA [NM_004651]	-1.268
TMEM181	Homo sapiens transmembrane protein 181 (TMEM181), mRNA [NM_020823]	-1.264
RNF214	Homo sapiens ring finger protein 214 (RNF214), mRNA [NM_001077239]	-1.263
LOC645683	Homo sapiens ribosomal protein L13a pseudogene (LOC645683), non-coding RNA [NR_004844]	-1.256
LOC643014	Homo sapiens misc_RNA (LOC643014), miscRNA [XR_018450]	-1.255
SVIP	Homo sapiens small VCP/p97-interacting protein (SVIP), mRNA [NM_148893]	-1.255
LOC253482	Homo sapiens misc_RNA (LOC253482), miscRNA [XR_016415]	-1.252
ACAA2	Homo sapiens acetyl-Coenzyme A acyltransferase 2 (ACAA2), nuclear gene encoding mitochondrial protein, mRNA [NM_006111]	-1.251
LOC339843	Homo sapiens misc_RNA (LOC339843), miscRNA [XR_016598]	-1.251

LOC440737	Homo sapiens similar to ribosomal protein L35 (LOC440737), mRNA [XM_496446]	-1.249
PLEKHA7	Homo sapiens pleckstrin homology domain containing, family A member 7 (PLEKHA7), mRNA [NM_175058]	-1.247
FGFR1OP	Homo sapiens FGFR1 oncogene partner (FGFR1OP), , mRNA [NM_007045]	-1.244
ZNF626	Homo sapiens zinc finger protein 626 (ZNF626), mRNA [NM_001076675]	-1.243
ACADL	Homo sapiens acyl-Coenzyme A dehydrogenase, long chain (ACADL), nuclear gene encoding mitochondrial protein, mRNA [NM_001608]	-1.240
CAPZA2	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA [NM_006136]	-1.237
LOC441383	Homo sapiens hypothetical gene supported by AF086559; BC065734, mRNA (cDNA clone IMAGE:30352956). [BC065734]	-1.236
CRIM1	Homo sapiens cysteine rich transmembrane BMP regulator 1 (chordin-like) (CRIM1), mRNA [NM_016441]	-1.235
FAM86A	Homo sapiens family with sequence similarity 86, member A (FAM86A), mRNA [NM_201400]	-1.235
FLJ27352	Homo sapiens cDNA FLJ27352 fis, clone TST05165. [AK130862]	-1.234
SPAG1	Homo sapiens sperm associated antigen 1 (SPAG1), mRNA [NM_003114]	-1.229
TMEM154	Homo sapiens transmembrane protein 154 (TMEM154), mRNA [NM_152680]	-1.228
IRAK1BP1	Homo sapiens interleukin-1 receptor-associated kinase 1 binding protein 1 (IRAK1BP1), mRNA [NM_001010844]	-1.221
IL17RB	Homo sapiens interleukin 17 receptor B (IL17RB), mRNA [NM_018725]	-1.219
GALNT4	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4), mRNA [NM_003774]	-1.217
LOC285550	Homo sapiens cDNA FLJ42660 fis, clone BRAMY2010808. [AK124651]	-1.216
C18orf55	Homo sapiens chromosome 18 open reading frame 55 (C18orf55), mRNA [NM_014177]	-1.215
DNAJC5	Full-length cDNA clone CS0DN003YL17 of Adult brain of Homo sapiens. [CR607484]	-1.213
LOC90834	Homo sapiens, clone IMAGE:3535910, mRNA. [BC001742]	-1.213
SRP14P1	Homo sapiens signal recognition particle 14kDa (homologous Alu RNA binding protein) pseudogene 1 (SRP14P1), non-coding RNA [NR_003273]	-1.213
HSPA9	Homo sapiens heat shock 70kDa protein 9 (mortalin) (HSPA9), mRNA [NM_004134]	-1.211
ZNF345	Homo sapiens zinc finger protein 345 (ZNF345), mRNA [NM_003419]	-1.204
SERINC1	Homo sapiens serine incorporator 1 (SERINC1), mRNA [NM_020755]	-1.201
LOC646119	Homo sapiens similar to hCG2040247 (LOC646119), mRNA [XM_929084]	-1.200
PRRX2	Homo sapiens paired related homeobox 2 (PRRX2), mRNA [NM_016307]	-1.200
KIAA1524	Homo sapiens KIAA1524 (KIAA1524), mRNA [NM_020890]	-1.197
LOC401076	Homo sapiens misc_RNA (LOC401076), miscRNA [XR_018154]	-1.194
GNG2	Homo sapiens guanine nucleotide binding protein (G protein), gamma 2 (GNG2), mRNA [NM_053064]	-1.191
AL022344.6	Homo sapiens similar to hCG1640833 (LOC100129622), mRNA	-1.189

	[XM_001724175]	
ZNF826	Homo sapiens zinc finger protein 826 (ZNF826), mRNA [NM_001039884]	-1.188
SPINK5L3	Homo sapiens serine PI Kazal type 5-like 3 (SPINK5L3), mRNA [NM_001040129]	-1.187
MNAT1	Homo sapiens menage a trois homolog 1, cyclin H assembly factor (Xenopus laevis) (MNAT1), mRNA [NM_002431]	-1.186
PLCXD3	Homo sapiens phosphatidylinositol-specific phospholipase C, X domain containing 3 (PLCXD3), mRNA [NM_001005473]	-1.185
KIAA1586	Homo sapiens KIAA1586 (KIAA1586), mRNA [NM_020931]	-1.184
MED7	Homo sapiens mediator complex subunit 7 (MED7), mRNA [NM_004270]	-1.183
INE1	Homo sapiens inactivation escape 1 (non-protein coding) (INE1), non-coding RNA [NR_024616]	-1.178
NSL1	Homo sapiens NSL1, MIND kinetochore complex component, homolog (S. cerevisiae) (NSL1), mRNA [NM_015471]	-1.178
LOC728198	Homo sapiens similar to transcription associated factor TAFII31L (LOC728198), mRNA [XM_001126120]	-1.175
ZIC2	Homo sapiens Zic family member 2 (odd-paired homolog, Drosophila) (ZIC2), mRNA [NM_007129]	-1.173
PUS7L	Homo sapiens pseudouridylylase 7 homolog (S. cerevisiae)-like (PUS7L), mRNA [NM_031292]	-1.173
C12orf30	Homo sapiens chromosome 12 open reading frame 30 (C12orf30), mRNA [NM_024953]	-1.171
LOC100130288	Homo sapiens cDNA clone IMAGE:5295205, [BC043212]	-1.168
STX2	Homo sapiens syntaxin 2 (STX2), mRNA [NM_001980]	-1.168
PMCHL1	Homo sapiens pro-melanin-concentrating hormone-like 1 (PMCHL1), non-coding RNA [NR_003921]	-1.166
FAM84B	Homo sapiens family with sequence similarity 84, member B (FAM84B), mRNA [NM_174911]	-1.165
CUL2	Homo sapiens cullin 2 (CUL2), mRNA [NM_003591]	-1.162
NACA2	Homo sapiens nascent polypeptide-associated complex alpha subunit 2 (NACA2), mRNA [NM_199290]	-1.162
LOC729608	Homo sapiens similar to Brix domain containing 1 (LOC729608), mRNA [XM_001130778]	-1.161
ZNF674	Homo sapiens zinc finger family member 674 (ZNF674), mRNA [NM_001039891]	-1.161
LOC731688	Homo sapiens misc_RNA (LOC731688), miscRNA [XR_015992]	-1.160
IKZF4	Homo sapiens IKAROS family zinc finger 4 (Eos) (IKZF4), mRNA [NM_022465]	-1.158
CLIP4	Homo sapiens CAP-GLY domain containing linker protein family, member 4 (CLIP4), mRNA [NM_024692]	-1.158
LOC340508	Homo sapiens hypothetical protein LOC340508 (LOC340508), non-coding RNA [NR_002942]	-1.157
ZNF223	Homo sapiens zinc finger protein 223 (ZNF223), mRNA [NM_013361]	-1.157

APBA3	Homo sapiens amyloid beta (A4) precursor protein-binding, family A, member 3 (APBA3), mRNA [NM_004886]	-1.156
FAM13C1	Homo sapiens family with sequence similarity 13, member C1 (FAM13C1), mRNA [NM_001001971]	-1.155
LYSMD3	Homo sapiens LysM, putative peptidoglycan-binding, domain containing 3 (LYSMD3), mRNA [NM_198273]	-1.151
CTAGE1	Homo sapiens cutaneous T-cell lymphoma-associated antigen 1 (CTAGE1), mRNA [NM_172241]	-1.148
ZNF155	Homo sapiens zinc finger protein 155 (ZNF155), mRNA [NM_003445]	-1.147
ITGA2	Homo sapiens integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) (ITGA2), mRNA [NM_002203]	-1.146
LOC392522	Homo sapiens misc_RNA (LOC392522), miscRNA [XR_018292]	-1.146
C3orf45	Homo sapiens chromosome 3 open reading frame 45 (C3orf45), mRNA [NM_153215]	-1.144
hCG_21078	Homo sapiens hCG21078 (LOC389435), mRNA [NM_001089587]	-1.144
IPPK	Homo sapiens inositol 1,3,4,5,6-pentakisphosphate 2-kinase (IPPK), mRNA [NM_022755]	-1.143
PRR11	Homo sapiens cDNA FLJ11029 fis, clone PLACE1004156. [AK001891]	-1.143
LOC440396	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (HDP-1) (LOC440396), non-coding RNA [NR_002943]	-1.142
NSBP1	Homo sapiens nucleosomal binding protein 1 (NSBP1), mRNA [NM_030763]	-1.141
LOC147804	Homo sapiens tropomyosin 3 pseudogene (LOC147804), non-coding RNA [NR_003148]	-1.140
LRRC37A3	Homo sapiens leucine rich repeat containing 37, member A3 (LRRC37A3), mRNA [NM_199340]	-1.138
TTC14	Homo sapiens tetratricopeptide repeat domain 14 (TTC14), mRNA [NM_001042601]	-1.137
ZC3H7B	Homo sapiens zinc finger CCCH-type containing 7B (ZC3H7B), mRNA [NM_017590]	-1.137
ANXA2P3	Homo sapiens annexin A2 pseudogene 3 (ANXA2P3), non-coding RNA [NR_001446]	-1.136
CBR1	Homo sapiens carbonyl reductase 1 (CBR1), mRNA [NM_001757]	-1.131
ISL1	Homo sapiens ISL LIM homeobox 1 (ISL1), mRNA [NM_002202]	-1.127
LOC392425	Homo sapiens hypothetical LOC392425 (LOC392425), mRNA [XM_001714831]	-1.126
LOC729779	Homo sapiens misc_RNA (LOC729779), miscRNA [XR_016024]	-1.126
NUDT9	Homo sapiens nudix (nucleoside diphosphate linked moiety X)-type motif 9 (NUDT9), mRNA [NM_024047]	-1.125
BPNT1	Homo sapiens 3'(2'), 5'-bisphosphate nucleotidase 1 (BPNT1), mRNA [NM_006085]	-1.124
SNRPC	Homo sapiens small nuclear ribonucleoprotein polypeptide C (SNRPC), mRNA [NM_003093]	-1.124
C15orf37	Homo sapiens chromosome 15 open reading frame 37 (C15orf37), mRNA	-1.123

	[NM_175898]	
FLJ31813	Homo sapiens cDNA FLJ31813 fis, clone NT2RI2009517. [AK056375]	-1.123
NAP1L1	Homo sapiens nucleosome assembly protein 1-like 1 (NAP1L1), mRNA [NM_004537]	-1.119
DFFB	Homo sapiens DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase) (DFFB), mRNA [NM_004402]	-1.118
DMBX1	Homo sapiens diencephalon/mesencephalon homeobox 1 (DMBX1), mRNA [NM_147192]	-1.114
ZNF233	Homo sapiens zinc finger protein 233 (ZNF233), mRNA [NM_181756]	-1.114
TUBA8	Homo sapiens tubulin, alpha 8 (TUBA8), mRNA [NM_018943]	-1.110
EIF4E3	Homo sapiens eukaryotic translation initiation factor 4E family member 3 (EIF4E3), mRNA [NM_001134649]	-1.109
DMXL1	Homo sapiens Dmx-like 1 (DMXL1), mRNA [NM_005509]	-1.108
QKI	Homo sapiens quaking homolog, KH domain RNA binding (mouse) (QKI), mRNA [NM_006775]	-1.106
LOC100125556	Homo sapiens family with sequence similarity 86, member A pseudogene (LOC100125556), non-coding RNA [NR_024251]	-1.105
LOC400013	Homo sapiens misc_RNA (LOC400013), miscRNA [XR_019347]	-1.104
DLX5	Homo sapiens distal-less homeobox 5 (DLX5), mRNA [NM_005221]	-1.103
GABARAPL3	Homo sapiens GABA-A receptor-associated protein mRNA. [AF180519]	-1.098
ZNF251	Homo sapiens zinc finger protein 251 (ZNF251), mRNA [NM_138367]	-1.097
LOC391160	Homo sapiens misc_RNA (LOC391160), miscRNA [XR_018489]	-1.096
GOLIM4	Homo sapiens golgi integral membrane protein 4 (GOLIM4), mRNA [NM_014498]	-1.087
ZNF117	Homo sapiens zinc finger protein 117 (ZNF117), mRNA [NM_015852]	-1.087
ABHD10	Homo sapiens abhydrolase domain containing 10 (ABHD10), mRNA [NM_018394]	-1.084
RDH11	Homo sapiens retinol dehydrogenase 11 (all-trans/9-cis/11-cis) (RDH11), mRNA [NM_016026]	-1.084
ZNF107	Homo sapiens zinc finger protein 107 (ZNF107), mRNA [NM_016220]	-1.084
DDX6	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (DDX6), mRNA [NM_004397]	-1.083
TMC8	Homo sapiens transmembrane channel-like 8 (TMC8), mRNA [NM_152468]	-1.079
CXADRP2	Homo sapiens coxsackie virus and adenovirus receptor pseudogene 2 (CXADRP2), non-coding RNA [NR_024387]	-1.077
RPL24	Homo sapiens ribosomal protein L24 (RPL24), mRNA [NM_000986]	-1.077
LOC100133154	Homo sapiens hypothetical protein LOC100133154 (LOC100133154), mRNA [XM_001714925]	-1.073
RHOBTB3	Homo sapiens Rho-related BTB domain containing 3 (RHOBTB3), mRNA [NM_014899]	-1.073
LOC440957	Homo sapiens similar to CG32736-PA (LOC440957), mRNA [NM_001124767]	-1.067
LOC285216	Homo sapiens cDNA FLJ34909 fis, clone NT2RI2009301, moderately similar to Biofunctional methylenetetrahydroflolate dehydrogenase/cyclohydrofolate,	-1.066

	mitochondrial precursor. [AK092228]	
ADO	Homo sapiens 2-aminoethanethiol (cysteamine) dioxygenase (ADO), mRNA [NM_032804]	-1.065
KLRC3	Homo sapiens killer cell lectin-like receptor subfamily C, member 3 (KLRC3), mRNA [NM_007333]	-1.064
SNRPN	Homo sapiens clone Rt-16 SNURF-SNRPN mRNA, downstream untranslated exons, alternatively spliced. [AF400500]	-1.063
ZNF813	Homo sapiens zinc finger protein 813 (ZNF813), mRNA [NM_001004301]	-1.062
FLYWCH2	Homo sapiens FLYWCH family member 2 (FLYWCH2), mRNA [NM_138439]	-1.061
ACTR2	Homo sapiens ARP2 actin-related protein 2 homolog (yeast) (ACTR2), mRNA [NM_001005386]	-1.060
LOC728257	Homo sapiens misc_RNA (LOC728257), miscRNA [XR_015358]	-1.060
ZNF594	Homo sapiens zinc finger protein 594 (ZNF594), mRNA [NM_032530]	-1.058
NCRNA00081	Homo sapiens non-protein coding RNA 81 (NCRNA00081), non-coding RNA [NR_024140]	-1.052
LOC100132816	Homo sapiens hypothetical protein LOC100132816 (LOC100132816), mRNA [XM_001718703]	-1.051
ATF7	Homo sapiens activating transcription factor 7 (ATF7), mRNA [NM_006856]	-1.050
LOC344332	Homo sapiens similar to hCG1812048 (LOC344332), mRNA [XM_001125944]	-1.050
LOC388621	Homo sapiens hypothetical LOC388621 (LOC388621), mRNA [XM_001725488]	-1.050
LOC729449	Homo sapiens misc_RNA (LOC729449), miscRNA [XR_037770]	-1.050
SULT1E1	Homo sapiens sulfotransferase family 1E, estrogen-preferring, member 1 (SULT1E1), mRNA [NM_005420]	-1.049
ZNF254	Homo sapiens zinc finger protein 254 (ZNF254), mRNA [NM_203282]	-1.049
LOC645884	Homo sapiens cDNA FLJ25739 fis, clone TST05834. [AK098605]	-1.048
LOC100127983	Homo sapiens hypothetical protein LOC100127983 (LOC100127983), mRNA [XM_001722571]	-1.047
LOC400657	Homo sapiens hypothetical LOC400657 (LOC400657), non-coding RNA [NR_024484]	-1.047
CKAP4	Homo sapiens cytoskeleton-associated protein 4 (CKAP4), mRNA [NM_006825]	-1.046
MDM1	Homo sapiens Mdm1 nuclear protein homolog (mouse) (MDM1), mRNA [NM_020128]	-1.046
TCN1	Homo sapiens transcobalamin I (vitamin B12 binding protein, R binder family) (TCN1), mRNA [NM_001062]	-1.045
HEATR5B	Homo sapiens HEAT repeat containing 5B (HEATR5B), mRNA [NM_019024]	-1.043
TRAPPC6B	Homo sapiens trafficking protein particle complex 6B (TRAPPC6B), mRNA [NM_001079537]	-1.043
C1orf198	Homo sapiens chromosome 1 open reading frame 198 (C1orf198), mRNA [NM_032800]	-1.039
C13orf1	Homo sapiens chromosome 13 open reading frame 1 (C13orf1), mRNA [NM_020456]	-1.038

CHCHD1	Homo sapiens coiled-coil-helix-coiled-coil-helix domain containing 1 (CHCHD1), mRNA [NM_203298]	-1.037
LOC730232	Homo sapiens misc_RNA (LOC730232), miscRNA [XR_016075]	-1.037
ATP5E	Homo sapiens ATP synthase, H ⁺ transporting, mitochondrial F1 complex, epsilon subunit (ATP5E), mRNA [NM_006886]	-1.037
KRT18P46	Homo sapiens keratin 18 pseudogene 46 (KRT18P46), mRNA [XM_001720107]	-1.036
LOC162632	Homo sapiens TL132 pseudogene (LOC162632), non-coding RNA [NR_003190]	-1.036
ZNF431	Homo sapiens zinc finger protein 431 (ZNF431), mRNA [NM_133473]	-1.035
LOC100133528	Homo sapiens similar to HIG1 domain family, member 1A (LOC100133528), mRNA [XM_001721514]	-1.033
DGKH	Homo sapiens diacylglycerol kinase, eta (DGKH), mRNA [NM_152910]	-1.032
GLRXL	Homo sapiens glutaredoxin (thioltransferase)-like (GLRXL), mRNA [NM_001123388]	-1.032
TRPM6	Homo sapiens transient receptor potential cation channel, subfamily M, member 6 (TRPM6), mRNA [NM_017662]	-1.032
ZNF525	Homo sapiens zinc finger protein 525 (ZNF525), non-coding RNA [NR_003699]	-1.032
CHMP4C	Homo sapiens chromatin modifying protein 4C (CHMP4C), mRNA [NM_152284]	-1.030
KRT19P2	Homo sapiens mRNA for keratin 19, partial cds, isolate:K19-141. [AB041269]	-1.030
EID2	Homo sapiens EP300 interacting inhibitor of differentiation 2 (EID2), mRNA [NM_153232]	-1.029
C15orf40	Homo sapiens chromosome 15 open reading frame 40 (C15orf40), mRNA [NM_144597]	-1.029
POLI	Homo sapiens polymerase (DNA directed) iota (POLI), mRNA [NM_007195]	-1.028
RAP1B	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), mRNA [NM_015646]	-1.028
CPSF2	Homo sapiens cleavage and polyadenylation specific factor 2 (CPSF2), mRNA [NM_017437]	-1.027
NNT	NAD(P) transhydrogenase, mitochondrial Precursor (Nicotinamide nucleotide transhydrogenase) [Source:UniProtKB/Swiss-Prot; Acc:Q13423] [ENST00000264663]	-1.026
SRP19	Homo sapiens signal recognition particle 19kDa (SRP19), mRNA [NM_003135]	-1.026
BTN2A1	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA [NM_078476]	-1.025
C12orf39	Uncharacterized protein C12orf39 Precursor [Contains Putative amidated peptide] [Source:UniProtKB/Swiss-Prot;Acc:Q9BT56] [ENST00000256969]	-1.022
AP4S1	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (AP4S1), mRNA [NM_001128126]	-1.021
GLIPR1	Homo sapiens GLI pathogenesis-related 1 (GLIPR1), mRNA [NM_006851]	-1.020
C8orf38	Homo sapiens cDNA FLJ23887 fis, clone LNG14332. [AK074467]	-1.019
THAP5	Homo sapiens THAP domain containing 5 (THAP5), mRNA [NM_182529]	-1.019
GCNT2	Homo sapiens glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I	-1.018

	blood group) (GCNT2), mRNA [NM_001491]	
DSC3	Homo sapiens desmocollin 3 (DSC3), transcript variant Dsc3b, mRNA [NM_024423]	-1.016
CAV2	Homo sapiens caveolin 2 (CAV2), mRNA [NM_001233]	-1.015
IFT74	Homo sapiens intraflagellar transport 74 homolog (Chlamydomonas) (IFT74), mRNA [NM_025103]	-1.015
LOC727835	Homo sapiens misc_RNA (LOC727835), miscRNA [XR_015767]	-1.010
ZNF160	Homo sapiens zinc finger protein 160, mRNA (cDNA clone IMAGE:3452857). [BC000807]	-1.009
CPEB3	Homo sapiens cytoplasmic polyadenylation element binding protein 3 (CPEB3), mRNA [NM_014912]	-1.008
C12orf24	Homo sapiens chromosome 12 open reading frame 24 (C12orf24), mRNA [NM_013300]	-1.005
LOC284230	Homo sapiens similar to mCG7611 (LOC284230), mRNA [XM_208185]	-1.005
PXMP2	Homo sapiens peroxisomal membrane protein 2, mRNA (cDNA clone IMAGE:4098463). [BC009836]	-1.003
CCDC74B	Homo sapiens coiled-coil domain containing 74B (CCDC74B), mRNA [NM_207310]	-1.003
FAM41C	Homo sapiens family with sequence similarity 41, member C, mRNA (cDNA clone IMAGE:5201580). [BC047940]	-1.000