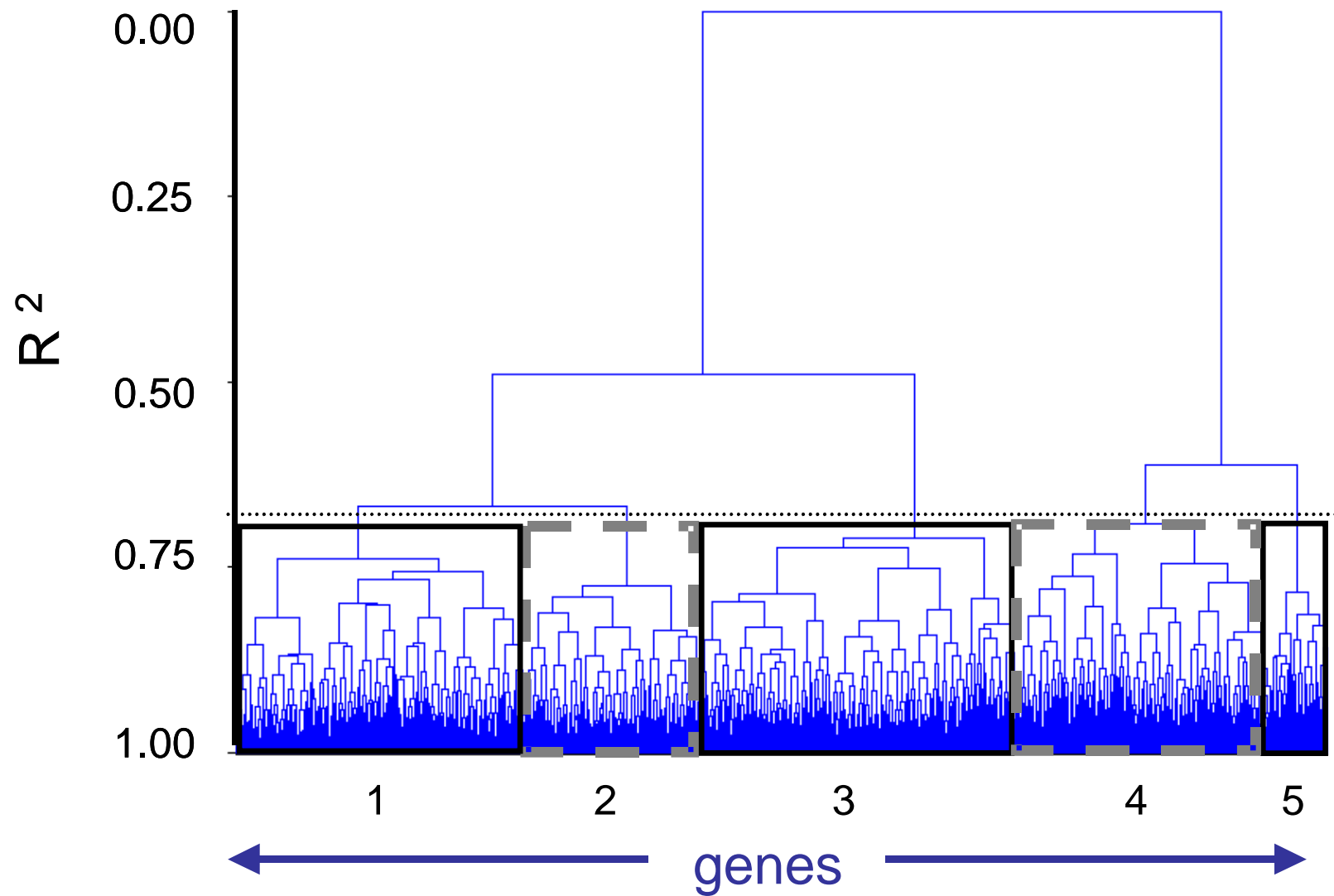


Supplemental Figure 1



Supplemental Table 1. Oligonucleotide sequences for primer/probe sets used for qRT-PCR.

Gene	Accession number	Forward primer	Probe	Reverse primer
NDUFB3	NM_002491	TCAGATTGCTGTCAGACATGG	Sybr Green detection	TGGTGTCCCTTCTATCTTCCA
NDUFB5	NM_002492	TTCGACACAGTGGAGACCAT	Sybr Green detection	TTCAGCTTGACCAATGAATACA
NDUFV1	NM_007103	CTGATCCCCAAGTCTGTGTGTGAGA	Sybr Green detection	GATGTCCGTCGAGCGGTCCAT
NDUFS1	NM_005006	GAATGTGATCTGCAGGACCAGTC	Sybr Green detection	GTCTTTACCAATGGCCCAATGT
SDHB	NM_003000	AAATGTGGCCCCATGGTATTG	Sybr Green detection	AGAGCCACAGATGCCTTCTCTG
SLC25A12	NM_003705	AGCACTCTAGCTGGCACAAGGAA	Sybr Green detection	AGTCAAGCGCCCTGAAGCATTATAT
18S	NM_000979	GATATGCTCATGTGGTGTGTA	Sybr Green detection	ACGTTCCACCTCATCTCA
CYC1	NM_001916	TGGCCCCCTCCATCTACAC	AGAGTTTGACGATGGCACCCAGCTA	ATCCTTGGCTATCTGGGACATG
SURF1	NM_003172	CCTATGTGGTCACTCCCTTCCA	TGGTGACTCCCAGGTCGGTGCA	TGGGAACGAACCCTCTATTTACC
PGC1α	NM_015062	AGGTGAAAGTGTAACTACTGTTGGTTGA	TGCTGAAGAGGGAAAGTGAGCGATTAGTTGA	CATGTAGAATTGGCAGGTGGAA
PGC1β	NM_133263	CAGCCACTCGAAGGAACTTCA	CTGAACACGGCCCTCTGCTCTACA	CGGATGCTTGGCGTTCTG
mtTFA	NM_009360	CCCAGATGCAAAAACACTACAGAACTAA	CGCAGTCACAACACTTACAAGCCAAAC	TCCGCCCTATAAGCATCTTGA
NRF1	NM_005011	CGTTGCCCAAGTGAATTATTCTG	TTGTTCCACCTCTCCATCAGCCA	CCCTGTAACGTGGCCCAAT
RPLP0	NM_001002	CCATTCTATCATCAACGGGTACAA	TCTCCACAGACAAGGCCAGGACTCG	AGCAAGTGGGAAGGTGTAATCC
mmNDUFB3	NM_025597	TGGCCATGGTAAAATGGAAC	CAGATTACAGACAGTGGAAAATTGAAGGGACG	AAGCTTCTTCTGCACCGTTTCT
mmNDUFB5	NM_025316	GCATCCGATATCAAGATGGATCG	CTGAAAAGAAGTACGAGAAAACCCTGGCTATCCT	CTTTAACCCTAAGTACGCTTTTCA
mmSLC25A12	NM_172436	CACCACAGGACCGAGAGTCA	TGCTTCAGGACCTGGGACTTTTCCG	GGCTTTGGCACCCCTGTACA
mmSDHB	NM_023374	CCCAGGAGGGCAAGCAA	AGTATCTGCAGTCCATCGAGGACCGG	GTACAGCCCCTCCAGCTTCT
mmCYC1	NM_025567	CAGCTACCCATGGTCTCATCGT	TCCGAATGCTGGTGTGGTCCAAGGA	CACCTGCTTGTATACCTGGAAACC
mmSURF1	NM_013677	AAGTGAATCCTGAGACCAGACAGA	AGGCCAGGTTCTGGGAGAAGTAGACC	TGTGAGCCTCACTATGCCAAT
mmPGC1α	NM_008904	CATTTGATGCACTGACAGATGGA	CCGTGACCACTGACAACGAGGCC	CCGTGAGGCATGGAGGAA
mmPGC1β	NM_133249	AGGAAGCGGGCGGAA	AGAGATTTTCAATGTATACCACACGGCCTTCA	CTACAATCTCACCGAACCTCAA
mmCOXII	NC_005089	TTTTCAGGCTTACCCTAGATGA	CATGAGCAAAAAGCCACTTCGCCA	GAAGAATGTTATGTTTACTCCTACGAATATG
mmUCP2	NM_011671	GCGTTCTGGGTACCATCCTAAC	CGCACTGAGGGTCCACGCAGC	GCGACCAGCCCATTGTAGA
mmCycB	NM_011149	GGTGGAGAGCACCAAGACAGA	ATCCTTCAGTGGCTGTCCCGGCT	GCCGGAGTCGACAATGATG

NDUFB3 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3; NDUFB5 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5; NDUFV1 NADH dehydrogenase (ubiquinone) flavoprotein 1; NDUFS1 NADH dehydrogenase (ubiquinone) Fe-S protein 1; SDHB succinate dehydrogenase complex, subunit B; SLC25A12 solute carrier family 25 (mitochondrial carrier); 18S 18S ribosomal RNA; CYC1 cytochrome c-1; SURF1 surfait 1; PGC1α peroxisome proliferative activated receptor, gamma, coactivator 1, alpha; PGC1β peroxisome proliferative activated receptor, gamma, coactivator 1, beta; mtTFA transcription factor A, mitochondrial; NRF1 nuclear respiratory factor-1; RPLP0 ribosomal protein, large, P0; mm mus musculus; mmNDUFB3 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3; mmNDUFB5 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5; mmSLC25A12 solute carrier family 25 (mitochondrial carrier); mmSDHB succinate dehydrogenase complex, subunit B; mmCYC1 cytochrome c-1; mmSURF1 surfait 1; mmPGC1α peroxisome proliferative activated receptor, gamma, coactivator 1, alpha; mmPGC1β peroxisome proliferative activated receptor, gamma, coactivator 1, beta; mmCOXII cytochrome c oxidase II, mitochondrial; mmUCP2 uncoupling protein 2; mmCycB peptidylprolyl isomerase B (cyclophilin B). For all assays performed using SYBR Green I detection, 18S was used.

Supplemental Table 2. Microarray 'Hit' List

CLUSTER	ACCESSION	GENE DESCRIPTION	FOLD CHANGE	DIRECTION	FUNCTION	BONFERRONI P
1	NM_016699	Human sperm-specific protein (LOC51170), mRNA	2.1	up	biological process unknown	0.00009
1	AK002789	Homo sapiens CDNA FL120782 fs, clone COLC3841	2.5	down	biological process unknown	1.4217E-09
1	AK01462	Homo sapiens cDNA FL11400 fs, clone HEMBA100673	2.4	down	biological process unknown	1.3797E-05
1	AL117663	Homo sapiens mRNA, cDNA DKF Zp386C0224 (from clone DKF Zp386C0224)	2.2	down	biological process unknown	0.00005843
1	AL113397	Homo sapiens mRNA, cDNA DKF Zp34362411 (from clone DKF Zp34362411)	2.2	down	biological process unknown	0.00170987
1	AK002032	Homo sapiens cDNA FL120025 fs, clone AKC611649	1.8	down	biological process unknown	0.00025246
1	L19362	Human (clone xp-1) mRNA sequence	1.8	down	biological process unknown	0.00044252
1	AK022297	Homo sapiens cDNA FL12235 fs, clone MAMMA1001243	1.7	down	biological process unknown	0.00513922
1	NM_016417	Homo sapiens clone FL184739 (LOC51218), mRNA	1.5	down	biological process unknown	0.00147364
1	AF106156	Homo sapiens full length insert cDNA clone ZB95H1.2	1.5	down	biological process unknown	0.00217467
1	AF109102	Homo sapiens clone BAGE_21785	2.1	down	biological process unknown	0.00281166
1	AB029946	Homo sapiens mRNA for KIAA1045 protein, partial cds	1.5	down	biological process unknown	0.00099956
1	AL117363	Homo sapiens mRNA, cDNA DKF Zp4401026 (from clone DKF Zp4401026)	1.4	down	biological process unknown	0.00266514
1	AK028037	Homo sapiens cDNA FL120294 fs, clone HRC07954	1.4	down	biological process unknown	0.00099269
1	X19938	H sapiens SRI mRNA	1.6	down	biological process unknown	0.00688159
1	AF084350	Homo sapiens full length insert cDNA clone ZKACG8	2.2	down	biological process unknown	0.00801914
1	AL151476	Homo sapiens mRNA, cDNA DKF Zp761C982 (from clone DKF Zp761C982)	1.7	down	cell adhesion	0.00869978
1	NM_001491	Homo sapiens RAB29 (rabgyp5, Rabgyn5) 13aa subcomplex, 3 (TAD, B12) (NEUF B3) mRNA, and translated products	1.4	down	complex (NEUF to subgyn5)	0.00127587
1	D87292	Homo sapiens mRNA for rhodanese, complete cds	1.9	down	cytosolic catabolism	0.00610911
1	AB037743	Homo sapiens mRNA for KIAA1322 protein, partial cds	1.4	down	developmental processes	0.00100286
1	AF052087	Homo sapiens clone Z8694 mRNA sequence	1.1	down	DNA packaging	3.34674E-06
1	AK040490	Homo sapiens mRNA for KIAA1176 protein, partial cds	1.4	down	plasma metabolism	0.00039128
1	NM_005532	Homo sapiens propionyl Coenzyme A carboxylase, beta polypeptide (PCCB), nuclear gene encoding mitochondrial protein, mRNA	1.6	down	fatty acid catabolism	2.98029E-06
1	NM_000155	Homo sapiens galactose-1-phosphate uridylyltransferase (GALT) mRNA	1.6	down	galactose metabolism	0.00064643
1	NM_007126	Homo sapiens vesicle-containing protein (VCP), mRNA	2	down	intracellular protein traffic	0.00041326
1	NM_018586	Homo sapiens DKF ZP564247 protein (DKF ZP564247), mRNA	1.3	down	intracellular processing	1.14425E-07
1	NM_002487	Homo sapiens nuclear (mouse) homolog (NDN) mRNA	1.2	down	neurogenesis	0.00723221
1	NM_000476	Homo sapiens adenylate kinase 1 (AK1), nuclear gene encoding mitochondrial protein, mRNA	1.5	down	nucleic acid metabolism	0.00090824
1	AB039903	Homo sapiens sp-1 mRNA for interferon responsive finger protein 1 long form, complete cds	2	down	pathogenesis	0.00120886
1	NM_018112	Homo sapiens calyculin B (cyclic nucleotide phosphodiesterase 2B) (CALYB) mRNA	2	down	protein synthesis inhibition	0.00149464
1	NM_000566	Homo sapiens embryonic LACT(1), mRNA	1.6	down	proteolysis and peptidolysis	0.00039832
1	NM_004236	Homo sapiens thyroid receptor interacting protein 15 (TRIP15) mRNA	1.9	down	signal transduction	0.00606494
1	NM_003974	Homo sapiens docking protein 2, SH3 (DOK2) mRNA	1.4	down	signal transduction (cell surface receptor)	0.005136911
1	AF160189	Homo sapiens AST1 protein mRNA, partial cds	1.6	down	transcription regulation	0.001436171
1	NM_001291	Homo sapiens cyclic nucleotide-gated channel beta 1 (CNGB1) mRNA, and translated products	1.7	down	vision	2.0184E-09
1	L23867	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	L23869	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	L23870	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	L43348	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	L43347	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	L43349	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	L43350	Homo sapiens mRNA fragment	1.8	up	biological process unknown	9.4574E-08
1	AL194811	Homo sapiens mRNA, cDNA DKF Zp386B022 (from clone DKF Zp386B022)	1.7	up	biological process unknown	2.2304E-06
1	NM_018593	Homo sapiens hypothetical protein PRO0811 (PRO0811), mRNA	1.7	up	biological process unknown	0.000337473
1	X04236	Human small cellular 7 SK mRNA	1.2	up	biological process unknown	0.00113783
1	L09070	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	L09071	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	L09080	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	L09081	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	L09100	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	L09162	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	L10146	Homo sapiens mRNA fragment	1.8	up	blood coagulation	9.4574E-08
1	Z36789	H sapiens (x138) mRNA, 250bp	1.9	up	blood coagulation	2.33058E-06
1	NM_005655	Homo sapiens TGF $\beta$ inducible early growth response (TIEG), mRNA	1.9	up	cell proliferation	1.3307E-09
1	NM_018480	Homo sapiens hypothetical protein (HSP-228), mRNA	1.6	up	cell wall integrity	0.160729E-09
1	L09056	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L09092	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L09095	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L09099	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L10140	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L10141	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L10147	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L10148	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L10151	Homo sapiens mRNA fragment	1.8	up	chymotrypsin	9.4574E-08
1	L09802	Homo sapiens mRNA fragment	1.8	up	humoral defense mechanism	9.4574E-08
1	L09878	Homo sapiens mRNA fragment	1.8	up	humoral defense mechanism	9.4574E-08
1	L09899	Homo sapiens mRNA fragment	1.8	up	humoral defense mechanism	9.4574E-08
1	L09908	Homo sapiens mRNA fragment	1.8	up	humoral defense mechanism	9.4574E-08
1	NM_003238	Homo sapiens transferrin receptor (p90, CD71) (TFRC) mRNA	1.5	up	iron transport	0.009
1	NM_001492	Homo sapiens growth differentiation factor 1 (GDF1), mRNA	1.4	up	membrane targeting	3.26237E-07
1	NM_009054	Homo sapiens prostaglandin D2 synthase (PTG2, trany) (PTGDS), mRNA	1.9	up	prostaglandin metabolism	4.78947E-06
1	NM_011049	Homo sapiens hypothetical protein (L20084) (L20084), mRNA	1.3	up	protein modification	0.00688306
1	NM_000067	Homo sapiens carbonic anhydrase IV (CA4) mRNA	1	up	protein targeting	0.000924999
1	L09067	Homo sapiens mRNA fragment	1.8	up	proteolysis and peptidolysis	9.4574E-08
1	NM_007163	Homo sapiens epidermal growth factor (beta-uregulin) (EGF) mRNA	1.7	up	signal transduction	0.001769554
1	L01138	Human interleukin 1 receptor soluble form mRNA, complete cds	1.2	up	signal transduction (cell surface receptor)	0.001007134
2	AF124745	Homo sapiens full length insert cDNA clone YP99H10	1.2	up	biological process unknown	3.35948E-09
2	AF070565	Homo sapiens clone 24425 mRNA sequence	2	down	biological process unknown	2.38024E-08
2	AL194861	Homo sapiens mRNA, cDNA DKF Zp564F043 (from clone DKF Zp564F043)	1.6	down	biological process unknown	2.13813E-05
2	AL296849	Homo sapiens mRNA, cDNA DKF Zp34362411 (from clone DKF Zp34362411)	1.8	down	biological process unknown	0.00009111
2	AL052648	Homo sapiens mRNA, cDNA DKF Zp586C1523 (from clone DKF Zp586C1523)	2	down	biological process unknown	9.92366E-05
2	AF086254	Homo sapiens full length insert cDNA clone ZD43410	1.1	down	biological process unknown	0.000105155
2	AK007956	Homo sapiens cDNA FL11044 fs, clone PLACE1004451	1.4	down	biological process unknown	0.00256093
2	NM_000083	Homo sapiens chloride channel 1 - skeletal muscle (CLCN1), mRNA	1.6	down	chloride transport	2.59873E-07
2	NM_001826	Homo sapiens chloride channel 1 (CLCN1) mRNA	1.6	down	chloride transport	0.001768138
2	NM_017781	Homo sapiens DKF ZP564K247 protein (DKF ZP564K247), mRNA	1.4	down	electron transport	0.002432844
2	NM_004170	mRNA	1.3	down	glutamate transport	0.000738263
2	NM_018467	Homo sapiens uncharacterized hematopoietic stem/progenitor cells protein MD0520 (MD0520), mRNA	1.8	down	immune response	0.00068921
2	NM_000466	Homo sapiens beta-2-microglobulin domain-containing 3 (Muskat antigen) (FCN3), mRNA	1.6	down	chymotrypsin	0.00092942
2	NM_000717	Homo sapiens carbonic anhydrase IV (CA4) mRNA	1.5	down	protein targeting	0.0041672
2	NM_001344	Homo sapiens ubiquitin-conjugating enzyme E2H (homologous to yeast UbcH2) (UBE2H) mRNA	1.4	down	proteolysis and peptidolysis	0.66848E-06
2	AK026637	Homo sapiens cDNA FL122004 fs, clone HE196671	2.1	down	sensory perception	3.78602E-08
2	NM_018159	Homo sapiens KIAA0714 gene product (KIAA0714), mRNA	1.2	down	chemotaxis	0.00081115
2	NM_014752	Homo sapiens KIAA0102 gene product (KIAA0102), mRNA	1.2	down	steroid metabolism	0.00054014
2	NM_003167	Homo sapiens sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 1 (SULT2A1) mRNA	1.3	down	steroid metabolism	0.00846903
2	NM_014845	Homo sapiens KIAA0274 gene product (KIAA0274), mRNA	1.6	down	synaptic vesicle endocytosis	4.30696E-09
2	AF055830	Homo sapiens clone 24523 mRNA sequence	1.5	down	transcription regulation	0.001402687
2	NM_007016	Homo sapiens protein similar to E. coli ynfj and R. capsulatus HNR3 (PP3S), mRNA	1.4	down	de novo pyrimidine biosynthesis	0.000204968
2	NM_000375	Homo sapiens voltage-dependent anion channel 2 (VMAC2), nuclear gene encoding mitochondrial protein, mRNA	1.5	down	anion transport	2.2842E-06

2	M5536	Human glucose transporter pseudogene	1.4	up	biological process unknown	4.688E-12
2	AF08551	Human SLC57C mRNA, partial cds	1.2	up	biological process unknown	7.2417E-09
2	AL161991	Human sapiens mRNA, cDNA DKF2761C149 from clone DKF2761C149, partial cds	1.4	up	biological process unknown	6.62599E-08
2	U10511	Human clone Z012 Csi-dua1 critical region mRNA, partial sequence	1.9	up	biological process unknown	1.5762E-06
2	L23867	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	L23869	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	L23870	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	L41345	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	L41347	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	L41349	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	L41350	Human sapiens mRNA fragment	1.8	up	biological process unknown	0.001922163
2	AK024927	Human sapiens cDNA FL121274 f6, clone COL01781	1.5	up	biological process unknown	0.001126244
2	X174804	H.sapiens D54 mRNA	1.6	up	biological process unknown	0.001756293
2	AK022610	Human sapiens cDNA FL13548 f6, clone PLACE100768	1.4	up	biological process unknown	0.00504947
2	AK028479	Human sapiens cDNA FL13208 f6, clone UNG01738	2.1	up	biological process unknown	0.00837973
2	L09070	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	L09071	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	L09080	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	L09081	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	L09100	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	L09102	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	L10146	Human sapiens mRNA fragment	1.8	up	blood coagulation	0.001922163
2	AK221566	Human sapiens mRNA containing UTR1 and mRNA 1	1.2	up	cell growth and maintenance	5.9043E-06
2	L25080	Human sapiens CYP-binding protein (P4A) mRNA, complete cds	1.4	up	cell growth and maintenance	0.002526602
2	L09086	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L09092	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L09095	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L09099	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L10140	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L10141	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L10147	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L10148	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	L10151	Human sapiens mRNA fragment	1.8	up	chymotrypsin	0.001922163
2	AB011152	Human sapiens mRNA for KIAA0680 protein, partial cds	1.4	up	cytoskeleton integrity	2.58635E-05
2	NM_020367	Human sapiens HIRBPA (C12orf6), mRNA	1.1	up	cytoskeleton integrity	0.000435766
2	AK022483	Human sapiens cDNA FL13621 f6, clone PLACE101964	1.1	up	cytoskeleton integrity	0.000366497
2	AK022872	Human sapiens cDNA FL12810 f6, clone NT28P000244, weakly similar to DNA CROSS-LINK REPAIR PROTEIN P50S2NM1	1.6	up	DNA repair	3.07146E-07
2	NM_004299	Human sapiens RecQ protein 5 (RECQ5) mRNA	1.4	up	DNA repair	1.43416E-06
2	NM_020707	Human sapiens RecQ protein like (DNA helicase D1 like) (RECOL) mRNA	1.5	up	DNA repair	0.000516067
2	NM_014183	Human sapiens hypothetical protein FL110101 (FL110101), mRNA	1	up	DNA repair	0.001142495
2	M20699	Human terminal deoxynucleotidyltransferase gene, clone 7	1.4	up	DNA replication	5.20375E-09
2	NM_001714	Human sapiens Bicaudal D (Drosophila) homolog 1 (BICD1) mRNA	1.5	up	embryogenesis and morphogenesis	1.56169E-06
2	NM_019190	Human sapiens endonuclease/reovirus family W, member 1 (cyclop1) (ERVW1), mRNA	1.2	up	embryogenesis and morphogenesis	2.4067E-06
2	X171712	H.sapiens mRNA for glyoxylate kinase isozyme 2	1.9	up	enzyme metabolism	0.000135017
2	L09052	Human sapiens mRNA fragment	1.8	up	humoral defense mechanism	0.001922163
2	L09078	Human sapiens mRNA fragment	1.8	up	humoral defense mechanism	0.001922163
2	L09089	Human sapiens mRNA fragment	1.8	up	humoral defense mechanism	0.001922163
2	L09098	Human sapiens mRNA fragment	1.8	up	humoral defense mechanism	0.001922163
2	NM_020364	Human sapiens intracytosolic zone protein (PZFP) mRNA	1.6	up	intracellular protein traffic	0.005914376
2	AB031102	Human sapiens mRNA for KIAA1276 protein, partial cds	1.5	up	muscle contraction	2.87047E-07
2	NM_019795	Human sapiens neuronal cell death-inhibited protein (LOC531614), mRNA	1.5	up	neuric acid metabolism	3.8623E-05
2	NM_020367	Human sapiens Nucleoside 5-methyltransferase (FMT) mRNA	1.3	up	neuric acid metabolism	0.000355568
2	NM_019360	Human sapiens clone HCG17 PRSC47b (LOC53204), mRNA	1.5	up	nucleotide excision repair	3.44837E-06
2	NM_014873	Human sapiens KIAA0205 gene product (KIAA0205), mRNA	1.7	up	phosphatidic acid biosynthesis	0.003616239
2	L09097	Human sapiens mRNA fragment	1.8	up	proteolysis and peptidolysis	0.001922163
2	AB010310	Human sapiens mRNA for KIAA0761 protein, partial cds	1.4	up	retinol metabolism	0.000210553
2	NM_005513	Human sapiens interactor, gamma inducible protein 18 (IPI18) mRNA	1.4	up	transcription regulation	6.6231E-07
2	AJ_291181	Human sapiens LXK3 protein mRNA, complete cds	1.3	up	transcription regulation	0.00041144
2	NM_006598	Human sapiens solute carrier family 12 (potassium/chloride transporters), member 7 (SLC12A7), mRNA	2.8	up	transport	0.000156565
2	AF080637	Human sapiens E1a CTPase A protein (E1RA) A1 mRNA, partial cds	1.5	up	transport	0.000020025
2	X09099	Human sapiens unknown gene, interactor of co-repressing receptor	1.4	up	transport	8.7099E-07
3	NM_014028	Human sapiens HSPCD19 protein (HSPCD19), mRNA	1.2	down	biological process unknown	1.26257E-08
3	AK022850	Human sapiens cDNA FL112788 f6, clone NT28P0001944	1.4	down	biological process unknown	1.53982E-07
3	AJ_131385	Human sapiens clone 2056 mRNA sequence	1.5	down	biological process unknown	2.84837E-07
3	AJ_147343	Human sapiens full length insert cDNA clone YB11808	1.9	down	biological process unknown	5.47355E-06
3	L39924	Human sapiens (clone HPL114E) mRNA, partial EST	1.4	down	biological process unknown	2.23848E-05
3	AK001728	Human sapiens cDNA FL110366 f6, clone NT28M0001420	1.8	down	biological process unknown	2.26177E-05
3	NM_014118	Human sapiens PRCD159 protein (PRCD159), mRNA	1.9	down	biological process unknown	4.29623E-05
3	AF088878	Human sapiens full length insert cDNA clone YB18405	1.3	down	biological process unknown	7.21326E-04
3	AL109715	Human sapiens mRNA full length insert cDNA clone EUROIMAGE 430268	1.4	down	biological process unknown	0.000185708
3	AK002150	Human sapiens cDNA FL111288 f6, clone PLACE1009607	1.8	down	biological process unknown	0.000234275
3	AJ_109818	Human sapiens mRNA full length insert cDNA clone EUROIMAGE 19107	1.3	down	biological process unknown	0.000427163
3	AJ_009085	Human sapiens clone TRC25 Csi-dua1 region mRNA	1.4	down	biological process unknown	0.000445236
3	AL043342	Human sapiens mRNA, cDNA DKF2566A191 from clone DKF2566A191	1.5	down	biological process unknown	0.000592814
3	NM_014157	Human sapiens HSPC065 protein (HSPC065), mRNA	1.4	down	biological process unknown	0.000276736
3	AK002109	Human sapiens cDNA FL11247 f6, clone PLACE1008893	1.4	down	biological process unknown	0.001115375
3	AK002671	Human sapiens cDNA FL22978 f6, clone ZAT16027	1.4	down	biological process unknown	0.002599713
3	AJ_147349	Human sapiens full length insert cDNA clone YB44E02	1.4	down	biological process unknown	6.00315E-04
3	AL390656	Human sapiens mRNA full length insert cDNA clone EUROIMAGE 328974	1.3	down	biological process unknown	0.000248225
3	D28446	Human mRNA for cyclotratin B, 5'UTR (sequence from the 5' cap to the start codon)	1.8	down	biological process unknown	0.004367359
3	AK002173	Human sapiens cDNA FL11311 f6, clone PLACE1010102	1.4	down	biological process unknown	0.00648993
3	AL131113	Human sapiens mRNA, cDNA DKF261M0121 from clone DKF261M0121	1.4	down	biological process unknown	0.001127144
3	AK023600	Human sapiens cDNA FL13538 f6, clone PLACE1006617	1.5	down	biological process unknown	0.00889778
3	AK026099	Human sapiens cDNA FL122466 f6, clone HRC09457	2.2	down	biological process unknown	0.009163995
3	NM_020348	Human sapiens growth arrest-specific 1 (GAS1) mRNA	1.7	down	cell cycle arrest	0.000240229
3	NM_019346	Human sapiens candidate mediator of the 53-dependent G2 arrest (BEPFM2), mRNA	1.3	down	cell cycle arrest	0.000338642
3	NM_006550	Human sapiens Bcl2-interacting silencer binding protein (BSP) mRNA	1.8	down	developmental processes	0.000101004
3	AL131703	Human sapiens mRNA, cDNA DKF264P1772 from clone DKF264P1772	1.2	down	DNA packaging	0.000187628
3	NM_020143	Human sapiens tumoral hyaluronate (TH) mRNA	1.8	down	hematologic metabolism	0.000040416
3	NM_004413	Human sapiens normal glutathione S-transferase 3 (MST3) mRNA, and translated products	1.7	down	oxidative metabolism	0.000161144
3	NM_004837	Human sapiens geranylgeranyl diphosphate synthase 1 (GGPS1), mRNA	1.4	down	lipid metabolism	0.000170041
3	NM_003705	Human sapiens solute carrier family 25 (mitochondrial carrier, Anion), member 12 (SLC25A12) mRNA	1.8	down	mitochondrial transport	4.58902E-09
3	NM_019394	Human sapiens hypothetical protein FL111342 (FL111342), mRNA	2	down	nitrogen metabolism	0.002850132
3	AL162685	Human sapiens mRNA, cDNA DKF262K733 from clone DKF262K733	1.5	down	transcription regulation	0.000496687
3	L23544	Human (clone Z1519) retinal mRNA	1.7	down	biological process unknown	1.68971E-08
3	AK024244	Human sapiens cDNA FL114182 f6, clone NT28P0004675	2.1	down	biological process unknown	1.01781E-07
3	NM_018224	Human sapiens hypothetical protein FL110803 (FL110803), mRNA	1.6	down	biological process unknown	6.82961E-07
3	AJ_086635	Human sapiens full length insert cDNA clone ZEU0108	1.7	down	biological process unknown	5.44637E-05
3	AJ_147349	Human sapiens full length insert cDNA clone YB40C29	1.1	down	biological process unknown	6.1082E-05
3	AK026686	Human sapiens cDNA FL122033 f6, clone HE088016, highly similar to H5U43374 human normal keratinocyte mRNA	1.6	down	biological process unknown	0.000105142
3	AF052815	Human sapiens clone Z368 mRNA sequence	1.3	down	biological process unknown	0.000390923
3	AF049020	Human sapiens clone HRC032 PRCD032 mRNA, partial cds	1.2	down	biological process unknown	0.001031299

