Supplementary Table I: Full list of Biological Process Gene Ontology categories enriched in TAL1-dependent genes in erythroid cells with P-value<0.05

GO term	Count	Size	Pvalue	
actin cytoskeleton organization and biogenesis	8	164	4.13E-04	
actin filament-based process	8	177	6.86E-04	
peptide metabolic process	3	17	7.61E-04	
metabotropic glutamate receptor signaling pathway	2	6	1.71E-03	
actin cytoskeleton reorganization	2	7	2.37E-03	
signal peptide processing	2	8	3.14E-03	
negative regulation of immune system process	2	9	4.01E-03	
cortical actin cytoskeleton organization and biogenesis	2	9	4.01E-03	
cortical cytoskeleton organization and biogenesis	2	10	1.97E-03	
cellular response to extracellular stimulus	2	14	9.77E-03	
aldehyde metabolic process	2	16	1.27E-02	
cytoskeleton organization and biogenesis	10	416	1.52E-02	
glutamate signaling pathway	2	20	1.96E-02	
response to estrogen stimulus	2	21	2.15E-02	Upregulated
peripheral nervous system development	2	23	2.55E-02	
production of molecular mediator of immune response	2	23	2.55E-02	
negative regulation of multicellular organismal process	2	23	2.55E-02	
negative regulation of MAP kinase activity	2	23	2.55E-02	
blood vessel development	5	154	2.62E-02	
vasculature development	5	156	2.75E-02	
G-protein signaling, coupled to IP3 second messenger (phospholipase C activating)#protein kinase C activation	2	25	2.98E-02	
ceramide metabolic process	2	25	2.98E-02	
myeloid leukocyte activation	2	26	3.21E-02	
leukocyte migration	2	26	3.21E-02	
calcium-mediated signaling	2	27	3.44E-02	
sphingoid metabolic process	2	28	3.68E-02	
blood vessel development#blood vessel morphogenesis#angiogenesis	4	120	4.16E-02	
protein processing	3	76	4.96E-02	
mitosis	28	202	6.94E-20	
M phase of mitotic cell cycle	28	204	1.30E-19	
DNA replication	26	181	1.94E-19	
cell cycle phase	34	311	6.44E-17	
DNA metabolic process	52	634	1.06E-15	
M phase	29	255	2.05E-15	
cell cycle process	44	528	9.49E-14	
chromatin assembly	13	78	3.43E-07	
nucleosome assembly	12	67	4.34E-07	
regulation of progression through cell cycle	24	308	5.95E-07	
regulation of cell cycle	24	312	8.57E-07	
DNA-dependent DNA replication	13	89	1.64E-06	
protein-DNA complex assembly	15	123	2.73E-06	
interphase	12	83	4.61E-06	
chromatin assembly or disassembly	14	114	5.40E-06	

chromosome organization and biogenesis	23	317	6.92E-06	
interphase of mitotic cell cycle	11	78	1.47E-05	
neutral amino acid transport	5	14	3.26E-05	
establishment and/or maintenance of chromatin architecture	18	246	7.36E-05	
DNA packaging	18	251	1.09E-04	
traversing start control point of mitotic cell cycle	3	5	2.34E-04	
heme biosynthetic process	4	12	2.89E-04	
amino acid transport	7	47	3.83E-04	
interphase of mitotic cell cycle#G1 phase of mitotic cell cycle	4	14	5.59E-04	
carboxylic acid transport	8	66	6.24E-04	
organic acid transport	8	67	6.91E-04	
porphyrin biosynthetic process	4	15	7.45E-04	
tetrapyrrole biosynthetic process	4	15	7.45E-04	
regulation of DNA replication	5	26	8.04E-04	
interphase#G1 phase	4	16	9.70E-05	
heme metabolic process	4	16	9.70E-05	
regulation of progression through mitotic cell cycle	5	28	1.15E-03	
macromolecular complex assembly	26	476	1.18E-03	
one-carbon compound metabolic process	8	74	1.34E-03	
response to DNA damage stimulus	17	270	1.54E-03	
mitochondrial membrane organization and biogenesis	4	18	1.56E-03	
cellular component assembly	27	509	1.63E-03	
regulation of mitosis	7	60	1.63E-03	
amine transport	7	61	1.88E-03	
porphyrin metabolic process	4	19	1.92E-03	
nucleoside monophosphate biosynthetic process	4	19	1.93E-03	
tetrapyrrole metabolic process	4	19	1.93E-03	
nucleoside monophosphate metabolic process	4	19	1.93E-03	
S phase	4	19	1.93E-03	
chromosome condensation	4	19	1.93E-03	
arginine metabolic process	3	10	2.51E-03	
L-amino acid transport	3	10	2.51E-03	
regulation of cyclin-dependent protein kinase activity	6	49	2.82E-03	
positive regulation of progression through cell cycle	4	22	3.40E-03	
microtubule-based movement	8	86	3.49E-03	
cell cycle checkpoint	6	52	3.83E-03	
centrosome cycle	3	12	4.42E-03	
DNA replication initiation	4	24	4.72E-03	
glycine biosynthetic process	2	4	4.87E-03	
in utero embryonic development#blastocyst development#blastocyst growth#inner cell mass cell proliferation	2	4	4.87E-03	
cytokinesis during cell cycle	2	4	4.87E-03	
DNA replication, synthesis of RNA primer	2	4	4.87E-03	
ribosome biogenesis and assembly	7	73	5.21E-03	
mitotic sister chromatid segregation	4	26	6.34E-03	Downregulated
DNA integrity checkpoint	4	26	6.34E-03	
gas transport	3	14	7.00E-03	
mitotic sister chromatid segregation#mitotic chromosome condensation	3	14	7.00E-03	
regulation of progression through S phase	3	14	7.00E-03	
chromosome segregation#sister chromatid segregation	4	27	7.27E-03	

in utero embryonic development#blastocyst development#blastocyst growth	2	5	7.96E-03
mitochondrial transport#regulation of mitochondrial membrane permeability	2	5	7.96E-03
pigment biosynthetic process	4	28	8.30E-03
DNA damage response, signal transduction by p53 class mediator	3	15	8.56E-03
negative regulation of DNA replication	3	15	8.56E-03
centrosome organization and biogenesis	3	15	8.56E-03
microtubule organizing center organization and biogenesis	3	15	8.56E-03
mRNA transport	6	62	9.07E-03
nucleobase, nucleoside, nucleotide and nucleic acid transport	7	81	9.14E-03
cytoskeleton-dependent intracellular transport	8	101	9.16E-03
regulation of DNA metabolic process	5	45	9.52E-03
urea cycle intermediate metabolic process	3	16	1.03E-02
intracellular protein transport across a membrane	6	64	1.05E-02
centrosome duplication	2	6	1.17E-02
DNA repair#DNA synthesis during DNA repair	2	6	1.17E-02
negative regulation of DNA metabolic process	3	17	1.23E-02
nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	115	3231	1.25E-02
pigment metabolic process	4	32	1.33E-02
nucleic acid transport	6	68	1.40E-02
RNA transport	6	68	1.40E-02
RNA localization#establishment of RNA localization	6	68	1.40E-02
ribonucleoside monophosphate metabolic process	3	18	1.44E-02
ribonucleoside monophosphate biosynthetic process	3	18	1.44E-02
spindle organization and biogenesis	3	18	1.44E-02
DNA repair	13	222	1.49E-02
RNA localization	6	69	1.49E-02
microtubule-based process	11	176	1.51E-02
response to endogenous stimulus	18	346	1.58E-02
inner mitochondrial membrane organization and biogenesis	2	7	1.61E-02
arginine catabolic process	2	7	1.61E-02
DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis	2	8	2.10E-02
mitotic metaphase/anaphase transition	2	8	2.10E-02
DNA damage response, signal transduction	4	38	2.39E-02
mitochondrion organization and biogenesis	6	78	2.58E-02
glutamine family amino acid metabolic process	4	39	2.60E-02
deoxyribonucleotide metabolic process	2	9	2.65E-02
dicarboxylic acid transport	2	9	2.65E-02
DNA damage checkpoint	3	23	2.81E-02
secondary metabolic process	4	40	2.82E-02
serine family amino acid metabolic process	3	24	3.14E-02
serine family amino acid biosynthetic process	2	10	3.25E-02
regulation of mitochondrial membrane potential	2	10	3.25E-02
mitotic spindle organization and biogenesis	2	10	3.25E-02
nucleotide metabolic process	10	170	3.33E-02
methylation	4	43	3.56E-02
heterocycle metabolic process	5	63	3.60E-02
mitochondrial transport	4	44	3.83E-02
mitotic cell cycle checkpoint	3	26	3.87E-02
phospholipid catabolic process	2	11	3.90E-02

negative regulation of epithelial cell proliferation	2	11	3.90E-02
positive regulation of mitosis	2	11	3.90E-02
N-terminal protein amino acid modification	2	12	4.59E-02
oxygen transport	2	12	4.59E-02
in utero embryonic development#blastocyst development	2	12	4.59E-02

Supplementary Table II: Full list of Biological Process Gene Ontology categories enriched in TAL1-dependent genes in Jurkat cells with P-value<0.05

GO term	Count	Size	Pvalue
antigen processing and presentation of peptide antigen via MHC class I	9	13	2.74E-12
antigen processing and presentation of peptide antigen	9	16	4.09E-11
cell death	38	742	8.93E-06
death	38	742	8.93E-06
apoptosis	36	694	1.12E-05
programmed cell death	36	700	1.45E-05
negative regulation of cellular process	46	987	2.08E-05
negative regulation of biological process	47	1025	2.80E-05
mRNA catabolic process	6	27	5.02E-05
regulation of apoptosis	24	469	6.03E-04
RNA catabolic process	6	43	7.33E-04
programmed cell death#regulation of programmed cell death	24	474	7.38E-04
cellular developmental process	59	1545	1.08E-03
cell differentiation	59	1545	1.08E-03
cell differentiation#cell development	43	1047	1.30E-03
negative regulation of apoptosis	13	207	1.38E-03
negative regulation of programmed cell death	13	209	1.57E-03
negative regulation of growth	6	54	2.46E-03
phospholipid dephosphorylation	3	12	3.07E-03
regulation of cell motility	6	58	3.53E-03
antigen processing and presentation of endogenous peptide antigen	2	4	3.78E-03
mRNA catabolic process, deadenylation-dependent decay	2	4	3.78E-03
antigen processing and presentation of endogenous peptide antigen via MHC class I	2	4	3.78E-03
germinal center formation	2	4	3.78E-03
translation	20	408	3.85E-03
locomotion#regulation of locomotion	6	61	4.55E-03
locomotion	6	62	4.93E-03
negative regulation of cellular metabolic process	17	334	5.17E-03
negative regulation of cell growth	5	47	6.75E-03
negative regulation of cell size	5	48	7.38E-03
erythrocyte differentiation	4	31	7.66E-03
negative regulation of DNA binding	2	6	9.14E-03
hemopoiesis#myeloid cell differentiation	6	72	1.01E-02
response to protein stimulus	5	53	1.12E-02
response to unfolded protein	5	53	1.12E-02
negative regulation of binding	2	7	1.26E-02
negative regulation of cell-matrix adhesion	2	7	1.26E-02
negative regulation of signal transduction	7	98	1.28E-02
positive regulation of apoptosis	12	223	1.31E-02

mRNA catabolic process, nonsense-mediated decay	3	20	1.37E-02	
regulation of protein stability	3	20	1.37E-02	
cell cycle arrest	6	77	1.38E-02	
positive regulation of programmed cell death	12	225	1.43E-02	
negative regulation of amino acid metabolic process	2	8	1.65E-02	Upregulated
regulation of mRNA stability	2	8	1.65E-02	
negative regulation of protein amino acid phosphorylation	2	8	1.65E-02	
negative regulation of amine metabolic process	2	8	1.65E-02	
regulation of RNA stability	2	8	1.65E-02	
protein import into nucleus#protein import into nucleus, translocation	3	22	1.78E-02	
negative regulation of cell differentiation	5	61	1.96E-02	
negative regulation of cell adhesion	3	23	2.01E-02	
negative regulation of metabolic process	17	373	2.05E-02	
regulation of cell differentiation	8	136	2.35E-02	
T cell differentiation during immune response	2	10	2.56E-02	
L-amino acid transport	2	10	2.56E-02	
T-helper cell differentiation	2	10	2.56E-02	
leukocyte activation during immune response	2	10	2.56E-02	
T cell activation during immune response	2	10	2.56E-02	
alpha-beta T cell differentiation during immune response	2	10	2.56E-02	
immune response#cell activation during immune response	2	10	2.56E-02	
CD4-positive, alpha-beta T cell differentiation during immune response	2	10	2.56E-02	
lymphocyte activation during immune response	2	10	2.56E-02	
negative regulation of cell-cell adhesion	2	10	2.56E-02	
negative regulation of transcription, DNA-dependent	10	181	2.69E-02	
induction of apoptosis	10	189	3.07E-02	
regulation of DNA binding	2	11	3.08E-02	
CD4-positive, alpha beta T cell differentiation	2	11	3.08E-02	
induction of programmed cell death	10	190	3.13E-02	
regulation of phosphorus metabolic process	5	69	3.15E-02	
regulation of phosphate metabolic process	5	69	3.15E-02	
nucleocytoplasmic transport	7	120	3.43E-02	
negative regulation of developmental process	5	71	3.50E-02	
regulation of cyclin-dependent protein kinase activity	4	49	3.61E-02	
positive regulation of myeloid cell differentiation	2	12	3.63E-02	
negative regulation of phosphorylation	2	12	3.63E-02	
NLS-bearing substrate import into nucleus	2	12	3.63E-02	
heme biosynthetic process	2	12	3.63E-02	
nuclear transport	7	122	3.71E-02	
lipid modification	3	29	3.71E-02	
protein import	6	99	4.13E-02	
visual perception#photoreceptor cell maintenance	2	13	4.22E-02	
negative regulation of phosphate metabolic process	2	13	4.22E-02	
regulation of cell-cell adhesion	2	13	4.22E-02	
regulation of cell-matrix adhesion	2	13	4.22E-02	

regulation of cell adhesion	4	52	4.35E-02	
protein import into nucleus	5	77	4.71E-02	
hemopoiesis#myeloid cell differentiation#regulation of myeloid cell differentiation	3	32	4.76E-02	
neutral amino acid transport	2	14	4.85E-02	
tRNA metabolic process	13	102	6.37E-09	
tRNA aminoacylation	7	50	1.18E-05	
amino acid activation	7	50	1.18E-05	
translation and tRNA aminoacylation for protein translation	7	50	1.18E-05	
tRNA processing	7	56	2.53E-05	
amine metabolic process	16	379	5.95E-05	
amino acid and derivative metabolic process	15	309	1.06E-04	
amino acid metabolic process	13	252	1.70E-04	
translation	16	403	1.81E-04	
carboxylic acid metabolic process	18	480	1.85E-04	
organic acid metabolic process	18	483	2.07E-04	
macromolecule biosynthetic process	21	640	6.25E-04	
cellular biosynthetic process	25	825	7.91E-04	
phenylalanyl-tRNA aminoacylation	2	4	1.44E-03	
protein import into nucleus, docking	3	16	1.83E-03	
RNA processing	14	385	1.86E-03	
DNA replication checkpoint	2	6	3.52E-03	
negative regulation of DNA replication initiation	2	6	3.52E-03	
regulation of DNA replication initiation	2	8	6.43E-03	
nucleotide-sugar metabolic process	2	11	1.22E-02	
M phase of mitotic cell cycle	8	202	1.43E-02	
tRNA modification	2	12	1.45E-02	
purine ribonucleotide biosynthetic process	4	61	1.52E-02	
mRNA transport	4	62	1.61E-02	
purine nucleoside monophosphate biosynthetic process	2	13	1.70E-02	
purine nucleoside monophosphate metabolic process	2	13	1.70E-02	
purine ribonucleoside monophosphate metabolic process	2	13	1.70E-02	
purine ribonucleoside monophosphate biosynthetic process	2	13	1.70E-02	
M phase	9	253	1.83E-02	
purine nucleotide biosynthetic process	4	66	1.98E-02	
ribonucleotide biosynthetic process	4	66	1.98E-02	Downregulated
protein amino acid lipidation	3	37	1.99E-02	
nucleic acid transport	4	68	2.19E-02	
RNA transport	4	68	2.19E-02	
RNA localization#establishment of RNA localization	4	68	2.19E-02	
negative regulation of DNA replication	2	15	2.24E-02	
G2/M transition of mitotic cell cycle	2	15	2.24E-02	
lipoprotein biosynthetic process	3	39	2.29E-02	
purine ribonucleotide metabolic process	4	69	2.29E-02	
RNA localization	4	69	2.29E-02	

ribosome biogenesis and assembly	4	71	2.52E-02
ribonucleoside monophosphate metabolic process	2	17	2.85E-02
negative regulation of DNA metabolic process	2	17	2.85E-02
ribonucleoside monophosphate biosynthetic process	2	17	2.85E-02
purine nucleotide metabolic process	4	74	2.88E-02
cell cycle phase	10	309	3.10E-02
ribonucleotide metabolic process	4	76	3.13E-02
nucleoside monophosphate biosynthetic process	2	18	3.17E-02
nucleoside monophosphate metabolic process	2	18	3.17E-02
mitosis	7	200	3.82E-02
nucleobase, nucleoside, nucleotide and nucleic acid transport	4	81	3.83E-02
protein targeting to mitochondrion	2	20	3.86E-02
translation#translational elongation	2	20	3.86E-02
interphase	4	83	4.13E-02
ribonucleoprotein complex biogenesis and assembly	6	163	4.33E-02
rRNA processing	3	50	4.34E-02
macromolecular complex disassembly	2	22	4.60E-02
mismatch repair	2	22	4.60E-02
maintenance of fidelity during DNA-dependent DNA replication	2	22	4.60E-02
regulation of kinase activity	7	210	4.75E-02
cell cycle checkpoint	3	52	4.79E-02
protein targeting	6	168	4.89E-02

Supplementary Table III: Full list of the GO terms enriched within genes associated to the nearest TAL1 peak in erythroid cells (identified by ChIP-seq) with a p-value< 0.05

GO term	Count	Size	Pvalue
L-amino acid transport	8	10	1.17E-04
microvillus organization and biogenesis	5	5	4.20E-04
microvillus biogenesis	5	5	4.20E-04
amino acid transport	20	47	6.15E-04
neutral amino acid transport	8	14	3.44E-03
heme biosynthetic process	7	12	5.39E-03
regulation of Ras protein signal transduction	42	135	5.97E-03
erythrocyte differentiation	13	31	8.78E-03
regulation of small GTPase mediated signal transduction	53	181	8.97E-03
mitochondrial fusion	3	3	9.43E-03
organelle fusion	3	3	9.43E-03
heme metabolic process	8	16	9.84E-03
iron ion transport	11	25	1.05E-02
Ras protein signal transduction	54	188	1.32E-02
response to cold	5	8	1.32E-02
pigment biosynthetic process	12	29	1.44E-02
membrane lipid biosynthetic process	27	83	1.56E-02
regulation of synaptic plasticity	7	14	1.57E-02
amine transport	21	61	1.67E-02
pigment metabolic process	13	33	1.83E-02
small GTPase mediated signal transduction	100	384	1.98E-02
erythrocyte differentiation#erythrocyte development	4	6	2.07E-02
proline biosynthetic process	4	6	2.07E-02
carboxylic acid transport	22	66	2.24E-02
polyol metabolic process	9	20	2.29E-02
porphyrin biosynthetic process	7	15	2.41E-02
tetrapyrrole biosynthetic process	7	15	2.41E-02
chromatin modification	47	165	2.56E-02
organic acid transport	22	67	2.76E-02
regulation of acute inflammatory response to antigenic stimulus	3	4	3.17E-02
regulation of inflammatory response to antigenic stimulus	3	4	3.17E-02
bone remodeling#ossification#osteoblast differentiation#osteoblast development	3	4	3.17E-02

erythrocyte differentiation#erythrocyte development#erythrocyte maturation	3	4	3.17E-02
regulation of acute inflammatory response	3	4	3.17E-02
negative regulation of erythrocyte differentiation	3	4	3.17E-02
regulation of hypersensitivity	3	4	3.17E-02
negative regulation of actin filament depolymerization	9	22	3.35E-02
neurotransmitter catabolic process	4	7	4.02E-02
organic cation transport	4	7	4.02E-02
regulation of ARF GTPase activity	5	10	4.08E-02
ureteric bud branching	5	10	4.08E-02
regulation of actin filament depolymerization	9	23	4.21E-02
actin filament depolymerization	9	23	4.21E-02
tetrapyrrole metabolic process	8	19	4.26E-02
porphyrin metabolic process	8	19	4.26E-02
glycerol metabolic process	8	19	4.26E-02
transition metal ion transport	19	58	4.41E-02
inositol and derivative phosphorylation	2	2	4.46E-02
carnitine transport	2	2	4.46E-02
pyrimidine nucleoside diphosphate metabolic process	2	2	4.46E-02
acetylcholine catabolic process	2	2	4.46E-02
peristalsis	2	2	4.46E-02
dopamine receptor, adenylate cyclase inhibiting pathway	2	2	4.46E-02
protein destabilization	2	2	4.46E-02
intracellular sequestering of iron ion	2	2	4.46E-02
L-glutamate import	2	2	4.46E-02
synaptic transmission, cholinergic#acetylcholine catabolic process in synaptic cleft	2	2	4.46E-02
amino acid uptake during transmission of nerve impulse	2	2	4.46E-02
neurotransmitter secretion#synaptic vesicle exocytosis#synaptic vesicle targeting	2	2	4.46E-02
platelet activating factor metabolic process	2	2	4.46E-02
L-amino acid import	2	2	4.46E-02
keratan sulfate metabolic process	2	2	4.46E-02
L-cystine transport	2	2	4.46E-02
sphingosine metabolic process	2	2	4.46E-02
interleukin-13 production#interleukin-13 biosynthetic process	2	2	4.46E-02
phasic smooth muscle contraction	2	2	4.46E-02
apical junction assembly	2	2	4.46E-02
mitochondrial ornithine transport	2	2	4.46E-02
interleukin-13 production	2	2	4.46E-02
regulation of chromatin assembly or disassembly	2	2	4.46E-02

circadian sleep/wake cycle	2	2	4.46E-02
progesterone receptor signaling pathway	2	2	4.46E-02
glycine transport	2	2	4.46E-02
platelet activating factor biosynthetic process	2	2	4.46E-02
sulfur amino acid transport	2	2	4.46E-02
amino acid import	2	2	4.46E-02
morphogenesis of an epithelial sheet	2	2	4.46E-02
O-glycan processing	2	2	4.46E-02
glutamate uptake during transmission of nerve impulse	2	2	4.46E-02
ornithine transport	2	2	4.46E-02

Supplementary Table IV: Full list of the GO terms enriched within genes associated to the nearest TAL1 peak in Jurkat cells (identified by ChIP-seq) with a p-value< 0.05

GO term	Count	Size	Pvalue
regulation of T cell activation	14	52	1.88E-05
T cell activation	17	86	3.49E-05
regulation of lymphocyte activation	14	67	7.79E-05
lymphocyte activation	22	135	1.78E-04
regulation of cell activation	14	71	2.13E-04
leukocyte activation	24	158	3.81E-04
regulation of T cell differentiation	5	10	4.26E-04
T cell differentiation	10	39	4.51E-04
lymphocyte differentiation	13	61	4.77E-04
sulfur metabolic process	13	69	7.63E-04
intracellular signaling cascade	120	1210	8.78E-04
hemopoiesis#leukocyte differentiation	15	86	9.12E-04
positive regulation of T cell activation	9	36	1.05E-03
positive regulation of lymphocyte activation	10	45	1.50E-03
positive regulation of antigen receptor-mediated signaling pathway	3	4	1.58E-03
regulation of kinase activity	28	209	1.67E-03
negative regulation of striated muscle development	4	8	1.70E-03
heparan sulfate proteoglycan biosynthetic process	4	8	1.70E-03
T cell receptor signaling pathway	5	13	1.80E-03
regulation of small GTPase mediated signal transduction	25	181	1.83E-03
regulation of Ras protein signal transduction	20	135	1.99E-03
nerve-nerve synaptic transmission	6	19	2.00E-03
positive regulation of lymphocyte proliferation	7	26	2.39E-03
positive regulation of mononuclear cell proliferation	7	26	2.39E-03
regulation of transferase activity	28	213	2.40E-03
sulfur compound biosynthetic process	8	33	2.46E-03
regulation of signal transduction	52	468	3.18E-03
regulation of Ras protein signal transduction#regulation of Ras GTPase activity	11	58	3.40E-03
antigen receptor-mediated signaling pathway	6	21	3.53E-03
positive regulation of T cell proliferation	6	21	3.53E-03
regulation of GTPase activity	12	69	3.65E-03
regulation of lymphocyte differentiation	5	15	3.70E-03
regulation of hydrolase activity	20	142	4.42E-03
negative regulation of cell-cell adhesion	4	10	4.53E-03
elevation of cytosolic calcium ion concentration	10	53	5.33E-03
cytosolic calcium ion homeostasis	10	53	5.33E-03
blastocyst hatching	2	2	5.59E-03
positive regulation of T cell receptor signaling pathway	2	2	5.59E-03
multicellular organismal development#hatching	2	2	5.59E-03
platelet-derived growth factor receptor signaling pathway	2	2	5.59E-03

positive regulation of lyase activity	6	23	5.78E-03
positive regulation of adenylate cyclase activity	6	23	5.78E-03
positive regulation of cyclase activity	6	23	5.78E-03
regulation of protein kinase activity	26	204	6.04E-03
heparan sulfate proteoglycan metabolic process	4	11	6.71E-03
proteoglycan biosynthetic process	5	17	6.72E-03
immune response-activating cell surface receptor signaling pathway	6	24	7.22E-03
positive regulation of catalytic activity	26	208	8.29E-03
Ras protein signal transduction	24	188	8.43E-03
immune response-regulating cell surface receptor signaling pathway	6	25	8.91E-03
activation of immune response	10	58	1.02E-02
immune response-activating signal transduction	6	26	1.09E-02
proteoglycan metabolic process	6	26	1.09E-02
antigen receptor-mediated signaling pathway#regulation of antigen receptor-mediated signaling pathway	3	7	1.16E-02
negative regulation of cell-matrix adhesion	3	7	1.16E-02
B cell receptor signaling pathway	3	7	1.16E-02
multicellular organismal process#regulation of multicellular organismal process	29	245	1.27E-02
regulation of striated muscle development	4	13	1.29E-02
regulation of cell-cell adhesion	4	13	1.29E-02
plasma membrane fusion	4	13	1.29E-02
regulation of cell-matrix adhesion	4	13	1.29E-02
immune response-regulating signal transduction	6	27	1.31E-02
adenylate cyclase activation	5	20	1.40E-02
muscle development	20	154	1.40E-02
regulation of T cell proliferation	6	28	1.57E-02
B cell differentiation	6	28	1.57E-02
regulation of lymphocyte proliferation	7	36	1.58E-02
regulation of mononuclear cell proliferation	7	36	1.58E-02
regulation of cell adhesion	9	53	1.59E-02
V(D)J recombination	2	3	1.59E-02
response to tropane	2	3	1.59E-02
base conversion or substitution editing	2	3	1.59E-02
heparan sulfate proteoglycan biosynthetic process#heparan sulfate proteoglycan biosynthetic process, enzymatic modification	2	3	1.59E-02
regulation of systemic arterial blood pressure by vasopressin	2	3	1.59E-02
positive regulation of activin receptor signaling pathway	2	3	1.59E-02
response to cocaine	2	3	1.59E-02
vasoconstriction	4	14	1.70E-02
response to alkaloid	3	8	1.76E-02
positive regulation of multicellular organismal process	13	89	1.82E-02
blood circulation#regulation of blood pressure	8	46	1.95E-02
JAK-STAT cascade	7	38	2.10E-02
G-protein signaling, coupled to cAMP nucleotide second messenger#regulation of adenylate cyclase activity	7	38	2.10E-02
hemopoiesis	19	150	2.31E-02
immune response#regulation of immune response	12	82	2.39E-02
regulation of lyase activity	7	39	2.40E-02

regulation of cyclase activity	7	39	2.40E-02
regulation of Rho protein signal transduction#regulation of Rho GTPase activity	3	9	2.49E-02
single fertilization#fusion of sperm to egg plasma membrane	3	9	2.49E-02
thyroid hormone metabolic process	3	9	2.49E-02
T cell differentiation in the thymus	3	9	2.49E-02
negative regulation of MAP kinase activity	5	23	2.52E-02
negative regulation of cell adhesion	5	23	2.52E-02
T cell proliferation	6	31	2.53E-02
natural killer cell activation	4	16	2.74E-02
intra-Golgi vesicle-mediated transport	4	16	2.74E-02
integrin-mediated signaling pathway	8	49	2.78E-02
G-protein signaling, adenylate cyclase activating pathway	6	32	2.92E-02
regulation of immune system process	12	84	3.01E-02
striated muscle development	12	84	3.01E-02
negative regulation of sequestering of calcium ion	2	4	3.03E-02
positive regulation of T cell differentiation	2	4	3.03E-02
myeloid dendritic cell activation	2	4	3.03E-02
synaptic transmission, GABAergic	2	4	3.03E-02
regulation of cholesterol biosynthetic process	2	4	3.03E-02
sequestering of calcium ion#regulation of sequestering of calcium ion	2	4	3.03E-02
response to amine stimulus	2	4	3.03E-02
response to amphetamine	2	4	3.03E-02
release of sequestered calcium ion into cytosol	2	4	3.03E-02
small GTPase mediated signal transduction	40	383	3.25E-02
skeletal muscle development#skeletal muscle fiber development#neuromuscular junction development	3	10	3.37E-02
visual behavior	3	10	3.37E-02
regulation of systemic arterial blood pressure mediated by a chemical signal	3	10	3.37E-02
cellular calcium ion homeostasis	13	96	3.85E-02
calcium ion homeostasis	13	96	3.85E-02
phosphate transport	10	68	4.15E-02
mononuclear cell proliferation	7	44	4.33E-02
lymphocyte proliferation	7	44	4.33E-02
I-kappaB kinase/NF-kappaB cascade#activation of NF-kappaB-inducing kinase	3	11	4.38E-02
Golgi organization and biogenesis	3	11	4.38E-02
response to organic cyclic substance	3	11	4.38E-02
regulation of MAP kinase activity	12	88	4.57E-02
regulation of Rho protein signal transduction	10	69	4.66E-02
regulation of activin receptor signaling pathway	2	5	4.80E-02
regulation of steroid biosynthetic process	2	5	4.80E-02
muscle development#muscle maintenance	2	5	4.80E-02
positive regulation of erythrocyte differentiation	2	5	4.80E-02
embryonic hindlimb morphogenesis	2	5	4.80E-02
regulation of systemic arterial blood pressure by norepinephrine-epinephrine	2	5	4.80E-02
positive regulation of calcium-mediated signaling	2	5	4.80E-02
activin receptor signaling pathway	2	5	4.80E-02

protein kinase B signaling cascade	2	5	4.80E-02
T cell receptor signaling pathway#regulation of T cell receptor signaling pathway	2	5	4.80E-02
membrane fusion	6	36	4.89E-02

Supplementary Table V: List of TAL1-dependent genes in erythroid cells, defined as the genes that are differentially expressed upon TAL1 KD (identified by gene expression microarray and/or RT-qPCR) and have at least one TAL1 peak 50 kb upstream or downstream of their TSS.

ACTIVATED GENES

RefSeq	Symbol	Name
AK123330	RUNDC3A	Homo sapiens cDNA FLJ41336 fis, clone BRAMY3000213, highly similar to Homo sapiens RaP2 interacting protein 8 (RPIP8) mRNA.
NM_004397	DDX6	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (DDX6), mRNA.
NM_002940	ABCE1	Homo sapiens ATP-binding cassette, sub-family E (OABP), member 1 (ABCE1), transcript variant 1, mRNA.
BX537994	VCL	Homo sapiens mRNA; cDNA DKFZp686C1586 (from clone DKFZp686C1586); complete cds.
NM_052879	LARP4	Homo sapiens La ribonucleoprotein domain family, member 4 (LARP4), transcript variant 1, mRNA.
NM_172240	WDR51B	Homo sapiens WD repeat domain 51B (WDR51B), mRNA.
NM_003045	SLC7A1	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 (SLC7A1), mRNA.
NM_005332	HBZ	Homo sapiens hemoglobin, zeta (HBZ), mRNA.
NM_015190	DNAJC9	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 9 (DNAJC9), mRNA.
NM_005677	COLQ	Homo sapiens collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase (COLQ), transcript variant I, mRNA.
NM_016462	TMEM14C	Homo sapiens transmembrane protein 14C (TMEM14C), mRNA.
NM_152487	TMEM56	Homo sapiens transmembrane protein 56 (TMEM56), mRNA.
NR_002559	SNORD29	Homo sapiens small nucleolar RNA, C/D box 29 (SNORD29) on chromosome 11.
NM_002818	PSME2	Homo sapiens proteasome (prosome, macropain) activator subunit 2 (PA28 beta) (PSME2), mRNA.
NM_002532	NUP88	Homo sapiens nucleoporin 88kDa (NUP88), mRNA.
NM_138578	BCL2L1	Homo sapiens BCL2-like 1 (BCL2L1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
NM_015354	NUP188	Homo sapiens nucleoporin 188kDa (NUP188), mRNA.
NM_001017922	ERMAP	Homo sapiens erythroblast membrane-associated protein (Scianna blood group) (ERMAP), transcript variant 1, mRNA.
NM_001033	RRM1	Homo sapiens ribonucleotide reductase M1 polypeptide (RRM1), mRNA.
NM_015358	MORC3	Homo sapiens MORC family CW-type zinc finger 3 (MORC3), mRNA.
NM_003524	HIST1H2BH	Homo sapiens histone cluster 1, H2bh (HIST1H2BH), mRNA.
NM_152327	AK7	Homo sapiens adenylate kinase 7 (AK7), mRNA.
NM_004596	SNRPA	Homo sapiens small nuclear ribonucleoprotein polypeptide A (SNRPA), mRNA.
NM_170725	PGBD2	Homo sapiens piggyBac transposable element derived 2 (PGBD2), transcript variant 1, mRNA.
NM_001042517	DIAPH3	Homo sapiens diaphanous homolog 3 (Drosophila) (DIAPH3), transcript variant 1, mRNA.
NM_020390	EIF5A2	Homo sapiens eukaryotic translation initiation factor 5A2 (EIF5A2), mRNA.
NM_006778	TRIM10	Homo sapiens tripartite motif-containing 10 (TRIM10), transcript variant 1, mRNA.
NM_015415	BRP44	Homo sapiens brain protein 44 (BRP44), mRNA.
NM_025009	CEP135	Homo sapiens centrosomal protein 135kDa (CEP135), mRNA.
NM_001798	CDK2	Homo sapiens cyclin-dependent kinase 2 (CDK2), transcript variant 1, mRNA.
NM_022893	BCL11A	Homo sapiens B-cell CLL/lymphoma 11A (zinc finger protein) (BCL11A), transcript variant 1, mRNA.
NM_020347	LZTFL1	Homo sapiens leucine zipper transcription factor-like 1 (LZTFL1), mRNA.
NM_015942	MTERFD1	Homo sapiens MTERF domain containing 1 (MTERFD1), mRNA.
NM_005848	DENND4A	Homo sapiens DENN/MADD domain containing 4A (DENND4A), mRNA.
NM_018462	C3orf10	Homo sapiens chromosome 3 open reading frame 10 (C3orf10), mRNA.
NM_000249	MLH1	Homo sapiens mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) (MLH1), mRNA.
NM_021066	HIST1H2AJ	Homo sapiens histone cluster 1, H2aj (HIST1H2AJ), mRNA.
BC093061	TSTA3	Homo sapiens tissue specific transplantation antigen P35B, mRNA (cDNA clone MGC:111147 IMAGE:30370158), complete cds.
NM_006516	SLC2A1	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 1 (SLC2A1), mRNA.
NM_014050	MRPL42	Homo sapiens mitochondrial ribosomal protein L42 (MRPL42), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
NM_018648	NOLA3	Homo sapiens nucleolar protein family A, member 3 (H/ACA small nucleolar RNPs) (NOLA3), mRNA.
NM_030919	FAM83D	Homo sapiens family with sequence similarity 83, member D (FAM83D), mRNA.
U18422	TFDP2	Homo sapiens DP2 (DP2) mRNA, complete cds.
NM_005723	TSPAN5	Homo sapiens tetraspanin 5 (TSPAN5), mRNA.
NM_198682	GYPE	Homo sapiens glycophorin E (GYPE), transcript variant 2, mRNA.
NM_004053	BYSL	Homo sapiens bystin-like (BYSL), mRNA.
NM_001013840	TCTN3	Homo sapiens tectonic family member 3 (TCTN3), transcript variant 1, mRNA.
NM_020421	ADCK1	Homo sapiens aarF domain containing kinase 1 (ADCK1), mRNA.
NM_018036	ATG2B	Homo sapiens ATG2 autophagy related 2 homolog B (S. cerevisiae) (ATG2B), mRNA.
NM_030940	ISCA1	Homo sapiens iron-sulfur cluster assembly 1 homolog (S. cerevisiae) (ISCA1), mRNA.
NM_001040455	SIDT2	Homo sapiens SID1 transmembrane family, member 2 (SIDT2), mRNA.
NM_022648	TNS1	Homo sapiens tensin 1 (TNS1), mRNA.
NM_002184	IL6ST	Homo sapiens interleukin 6 signal transducer (gp130, oncostatin M receptor) (IL6ST), transcript variant 1, mRNA.
BC019064	FAM40B	Homo sapiens family with sequence similarity 40, member B, mRNA (cDNA clone MGC:29781 IMAGE:4590587), complete cds.
NM_033500	HK1	Homo sapiens hexokinase 1 (HK1), nuclear gene encoding mitochondrial protein, transcript variant 5, mRNA.
NM_031210	C14orf156	Homo sapiens chromosome 14 open reading frame 156 (C14orf156), mRNA.
NM_004360	CDH1	Homo sapiens cadherin 1, type 1, E-cadherin (epithelial) (CDH1), mRNA.
NM_002756	MAP2K3	Homo sapiens mitogen-activated protein kinase kinase 3 (MAP2K3), transcript variant A, mRNA.
NM_005322	HIST1H1B	Homo sapiens histone cluster 1, H1b (HIST1H1B), mRNA.
NM_001254	CDC6	Homo sapiens cell division cycle 6 homolog (S. cerevisiae) (CDC6), mRNA.
NR_002325	SNORA6	Homo sapiens small nucleolar RNA, H/ACA box 6 (SNORA6) on chromosome 3.

NM_181471	RFC2	Homo sapiens replication factor C (activator 1) 2, 40kDa (RFC2), transcript variant 1, mRNA.
NM_014881	DCLRE1A	Homo sapiens DNA cross-link repair 1A (PSO2 homolog, S. cerevisiae) (DCLRE1A), mRNA.
NM_005640	TAF4B	Homo sapiens TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa (TAF4B), mRNA.
NM_001042519	MGC13057	Homo sapiens hypothetical protein MGC13057 (MGC13057), transcript variant 1, mRNA.
NM_003516	HIST2H2AA3	Homo sapiens histone cluster 2, H2aa3 (HIST2H2AA3), mRNA.
NM_003516	HIST2H2AA3	Homo sapiens histone cluster 2, H2aa3 (HIST2H2AA3), mRNA.
NM_006838	METAP2	Homo sapiens methionyl aminopeptidase 2 (METAP2), mRNA.
NM_002592	PCNA	Homo sapiens proliferating cell nuclear antigen (PCNA), transcript variant 1, mRNA.
NM_007342	NUPL2	Homo sapiens nucleoporin like 2 (NUPL2), mRNA.
AF230665	UROS	Homo sapiens uroporphyrinogen III synthase (UROS) mRNA, complete cds.
NM_170589	CASC5	Homo sapiens cancer susceptibility candidate 5 (CASC5), transcript variant 1, mRNA.
NM_030927	TSPAN14	Homo sapiens tetraspanin 14 (TSPAN14), mRNA.
NM_001760	CCND3	Homo sapiens cyclin D3 (CCND3), mRNA.
NM_016101	NIP7	Homo sapiens nuclear import 7 homolog (S. cerevisiae) (NIP7), mRNA.
NM_016095	GINS2	Homo sapiens GINS complex subunit 2 (Psf2 homolog) (GINS2), mRNA.
NM_033393	FHDC1	Homo sapiens KIAA1727 protein (KIAA1727), mRNA.
NM_020644	TMEM9B	Homo sapiens TMEM9 domain family, member B (TMEM9B), mRNA.
NM_004180	TANK	Homo sapiens TRAF family member-associated NFKB activator (TANK), transcript variant 1, mRNA.
NM_018036	ATG2B	Homo sapiens ATG2 autophagy related 2 homolog B (S. cerevisiae) (ATG2B), mRNA.
NM_001071	TYMS	Homo sapiens thymidylate synthetase (TYMS), mRNA.
NM_017512	ENOSF1	Homo sapiens enolase superfamily member 1 (ENOSF1), mRNA.
NM_003546	HIST1H4L	Homo sapiens histone cluster 1, H4l (HIST1H4L), mRNA.
NM_004225	MFHAS1	Homo sapiens malignant fibrous histiocytoma amplified sequence 1 (MFHAS1), mRNA.
NM_004206	SEC22C	Homo sapiens SEC22 vesicle trafficking protein homolog C (S. cerevisiae) (SEC22C), transcript variant 2, mRNA.
NM_001237	CCNA2	Homo sapiens cyclin A2 (CCNA2), mRNA.
NM_003627	SLC43A1	Homo sapiens solute carrier family 43, member 1 (SLC43A1), mRNA.
NM_006296	VRK2	Homo sapiens vaccinia related kinase 2 (VRK2), mRNA.
NM_020409	MRPL47	Homo sapiens mitochondrial ribosomal protein L47 (MRPL47), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
NM_015531	C2CD3	Homo sapiens C2 calcium-dependent domain containing 3 (C2CD3), mRNA.
NM_001498	GCLC	Homo sapiens glutamate-cysteine ligase, catalytic subunit (GCLC), mRNA.
NM_033084	FANCD2	Homo sapiens Fanconi anemia, complementation group D2 (FANCD2), transcript variant 1, mRNA.
NM_021203	SRPRB	Homo sapiens signal recognition particle receptor, B subunit (SRPRB), mRNA.
NM_021052	HIST1H2AE	Homo sapiens histone cluster 1, H2ae (HIST1H2AE), mRNA.
NR_002163	OR7E37P	Homo sapiens olfactory receptor, family 7, subfamily E, member 37 pseudogene (OR7E37P) on chromosome 13.
NM_018097	CEP27	Homo sapiens centrosomal protein 27kDa (CEP27), mRNA.
NM_030802	FAM117A	Homo sapiens family with sequence similarity 117, member A (FAM117A), mRNA.
NM_005628	SLC1A5	Homo sapiens solute carrier family 1 (neutral amino acid transporter), member 5 (SLC1A5), mRNA.
NM_002466	MYBL2	Homo sapiens v-myb myeloblastosis viral oncogene homolog (avian)-like 2 (MYBL2), mRNA.
BC126369	H2BFS	Homo sapiens H2B histone family, member S, mRNA (cDNA clone MGC:161647 IMAGE:8992085), complete cds.
NM_012180	FBXO8	Homo sapiens F-box protein 8 (FBXO8), mRNA.
NM_003511	HIST1H2AL	Homo sapiens histone cluster 1, H2al (HIST1H2AL), mRNA.
BC011888	SLC35B1	Homo sapiens solute carrier family 35, member B1, mRNA (cDNA clone MGC:20043 IMAGE:3832062), complete cds.
NM_005332	HBZ	Homo sapiens hemoglobin, zeta (HBZ), mRNA.
NM_001950	E2F4	Homo sapiens E2F transcription factor 4, p107/p130-binding (E2F4), mRNA.
NM_013247	HTRA2	Homo sapiens HtrA serine peptidase 2 (HTRA2), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
NM_016531	KLF3	Homo sapiens Kruppel-like factor 3 (basic) (KLF3), mRNA.
NM_030627	CPEB4	Homo sapiens cytoplasmic polyadenylation element binding protein 4 (CPEB4), mRNA.
NM_000569	FCGR3A	Homo sapiens Fc fragment of IgG, low affinity IIIa, receptor (CD16a) (FCGR3A), mRNA.
NM_001010873	BZRPL1	Homo sapiens benzodiazapine receptor (peripheral)-like 1 (BZRPL1), mRNA.
NM_175065	HIST2H2AB	Homo sapiens histone cluster 2, H2ab (HIST2H2AB), mRNA.
NM_001080473	LOC388931	Homo sapiens hypothetical protein LOC388931 (LOC388931), mRNA.
NM_001316	CSE1L	Homo sapiens CSE1 chromosome segregation 1-like (yeast) (CSE1L), mRNA.
NM_001004760	OR51V1	Homo sapiens olfactory receptor, family 51, subfamily V, member 1 (OR51V1), mRNA.
NM_022770	GINS3	Homo sapiens GINS complex subunit 3 (Psf3 homolog) (GINS3), mRNA.
NM_015396	ARMC8	Homo sapiens armadillo repeat containing 8 (ARMC8), transcript variant 2, mRNA.
NM_152348	WDR81	Homo sapiens WD repeat domain 81 (WDR81), mRNA.
NM_005181	CA3	Homo sapiens carbonic anhydrase III, muscle specific (CA3), mRNA.
BX537430	DARC	Homo sapiens mRNA; cDNA DKFZp686D15198 (from clone DKFZp686D15198); complete cds.
NM_001002841	MYL4	Homo sapiens myosin, light chain 4, alkali; atrial, embryonic (MYL4), transcript variant 1, mRNA.
NM_006877	GMPR	Homo sapiens guanosine monophosphate reductase (GMPR), mRNA.
BC109190	CR1L	Homo sapiens complement component (3b/4b) receptor 1-like, mRNA (cDNA clone IMAGE:40000722), complete cds.
NM_000946	PRIM1	Homo sapiens primase, DNA, polypeptide 1 (49kDa) (PRIM1), mRNA.
NM_000480	AMPD3	Homo sapiens adenosine monophosphate deaminase (isoform E) (AMPD3), transcript variant 1, mRNA.
NM_152363	ANKRD41	Homo sapiens ankyrin repeat domain 41 (ANKRD41), mRNA.
NM_138799	MBOAT2	Homo sapiens membrane bound O-acyltransferase domain containing 2 (MBOAT2), mRNA.
NM_032204	ASCC2	Homo sapiens activating signal cointegrator 1 complex subunit 2 (ASCC2), mRNA.
NM_004267	CHST2	Homo sapiens carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 (CHST2), mRNA.

NM_002716	PPP2R1B	Homo sapiens protein phosphatase 2 (formerly 2A), regulatory subunit A, beta isoform (PPP2R1B), transcript variant 1, mRNA.
NM_015962	FCF1	Homo sapiens FCF1 small subunit (SSU) processome component homolog (S. cerevisiae) (FCF1), mRNA.
NM_016598	ZDHHC3	Homo sapiens zinc finger, DHHC-type containing 3 (ZDHHC3), mRNA.
NM_003931	WASF1	Homo sapiens WAS protein family, member 1 (WASF1), transcript variant 1, mRNA.
NM_031287	SF3B5	Homo sapiens splicing factor 3b, subunit 5, 10kDa (SF3B5), mRNA.
NM_001024858	SPTB	Homo sapiens spectrin, beta, erythrocytic (includes spherocytosis, clinical type I) (SPTB), transcript variant 1, mRNA.
BC064138	PRDX2	Homo sapiens peroxiredoxin 2, mRNA (cDNA clone MGC:75062 IMAGE:6176908), complete cds.
NM_178578	PSMF1	Homo sapiens proteasome (prosome, macropain) inhibitor subunit 1 (PI31) (PSMF1), transcript variant 2, mRNA.
NM_018154	ASF1B	Homo sapiens ASF1 anti-silencing function 1 homolog B (S. cerevisiae) (ASF1B), mRNA.
NM_138555	KIF23	Homo sapiens kinesin family member 23 (KIF23), transcript variant 1, mRNA.
NM_021105	PLSCR1	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA.
NM_001752	CAT	Homo sapiens catalase (CAT), mRNA.
NM_152329	PPIL5	Homo sapiens peptidylprolyl isomerase (cyclophilin)-like 5 (PPIL5), transcript variant 1, mRNA.
NM_003530	HIST1H3D	Homo sapiens histone cluster 1, H3d (HIST1H3D), mRNA.
NM_152703	SAMD9L	Homo sapiens sterile alpha motif domain containing 9-like (SAMD9L), mRNA.
NM_003517	HIST2H2AC	Homo sapiens histone cluster 2, H2ac (HIST2H2AC), mRNA.
NM_015995	KLF13	Homo sapiens Kruppel-like factor 13 (KLF13), mRNA.
NM_001256	CDC27	Homo sapiens cell division cycle 27 homolog (S. cerevisiae) (CDC27), mRNA.
NM_080650	ATPBD4	Homo sapiens ATP binding domain 4 (ATPBD4), mRNA.
NM_001030006	AP2B1	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), transcript variant 1, mRNA.
NM_015723	PNPLA8	Homo sapiens patatin-like phospholipase domain containing 8 (PNPLA8), mRNA.
NM_203342	EPB41	Homo sapiens erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) (EPB41), transcript variant 2, mRNA.
NM_004814	WDR57	Homo sapiens WD repeat domain 57 (U5 snRNP specific) (WDR57), mRNA.
NM_012112	TPX2	Homo sapiens TPX2, microtubule-associated, homolog (Xenopus laevis) (TPX2), mRNA.
BC101653	HIST1H2BI	Homo sapiens histone cluster 1, H2bi, mRNA (cDNA clone MGC:126702 IMAGE:8069159), complete cds.
NM_015036	ENDOD1	Homo sapiens endonuclease domain containing 1 (ENDOD1), mRNA.
NM_015442	CNOT10	Homo sapiens CCR4-NOT transcription complex, subunit 10 (CNOT10), mRNA.
NM_015196	KIAA0922	Homo sapiens KIAA0922 (KIAA0922), mRNA.
NM_002064	GLRX	Homo sapiens glutaredoxin (thioltransferase) (GLRX), mRNA.
NM_001042551	SMC2	Homo sapiens structural maintenance of chromosomes 2 (SMC2), transcript variant 2, mRNA.
NM_002576	PAK1	Homo sapiens p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast) (PAK1), mRNA.
NM_031465	C12orf32	Homo sapiens chromosome 12 open reading frame 32 (C12orf32), mRNA.
NM_022154	SLC39A8	Homo sapiens solute carrier family 39 (zinc transporter), member 8 (SLC39A8), mRNA.
NM_003522	HIST1H2BF	Homo sapiens histone cluster 1, H2bf (HIST1H2BF), mRNA.
NM_001078175	SLC29A1	Homo sapiens solute carrier family 29 (nucleoside transporters), member 1 (SLC29A1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA.
NM_000067	CA2	Homo sapiens carbonic anhydrase II (CA2), mRNA.
NM_003486	SLC7A5	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 (SLC7A5), mRNA.
NM_030773	TUBB1	Homo sapiens tubulin, beta 1 (TUBB1), mRNA.
NM_021932	RIC8A	Homo sapiens resistance to inhibitors of cholinesterase 8 homolog A (C. elegans) (RIC8A), mRNA.
NM_020645	NRIP3	Homo sapiens nuclear receptor interacting protein 3 (NRIP3), mRNA.
NM_004701	CCNB2	Homo sapiens cyclin B2 (CCNB2), mRNA.
NM_031208	FAHD1	Homo sapiens fumarylacetoacetate hydrolase domain containing 1 (FAHD1), transcript variant 2, mRNA.
NM_000342	SLC4A1	Homo sapiens solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group) (SLC4A1), mRNA.
NM_001034	RRM2	Homo sapiens ribonucleotide reductase M2 polypeptide (RRM2), mRNA.
NM_080821	C20orf108	Homo sapiens chromosome 20 open reading frame 108 (C20orf108), mRNA.
NM_000546	TP53	Homo sapiens tumor protein p53 (Li-Fraumeni syndrome) (TP53), mRNA.
NM_012089	ABCB10	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABCB10), nuclear gene encoding mitochondrial protein, mRNA.
NM_003521	HIST1H2BM	Homo sapiens histone cluster 1, H2bm (HIST1H2BM), mRNA.
NM_006060	IKZF1	Homo sapiens IKAROS family zinc finger 1 (Ikaros) (IKZF1), mRNA.
NM_006778	TRIM10	Homo sapiens tripartite motif-containing 10 (TRIM10), transcript variant 1, mRNA.
NM_006778	TRIM10	Homo sapiens tripartite motif-containing 10 (TRIM10), transcript variant 1, mRNA.
BC013913	TMEM14B	Homo sapiens transmembrane protein 14B, mRNA (cDNA clone MGC:22692 IMAGE:3685635), complete cds.
NM_013240	N6AMT1	Homo sapiens N-6 adenine-specific DNA methyltransferase 1 (putative) (N6AMT1), transcript variant 1, mRNA.
NM_173362	RFESD	Homo sapiens Rieske (Fe-S) domain containing (RFESD), mRNA.
AY336748	NPL	Homo sapiens N-acetylneuraminate pyruvate lyase-like protein mRNA, complete cds.
NM_175911	OR2L13	Homo sapiens olfactory receptor, family 2, subfamily L, member 13 (OR2L13), mRNA.
NM_020675	SPC25	Homo sapiens SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae) (SPC25), mRNA.
NM_016633	ERAF	Homo sapiens erythroid associated factor (ERAF), mRNA.
NM_016323	HERC5	Homo sapiens hect domain and RLD 5 (HERC5), mRNA.
NM_017667	CCDC132	Homo sapiens coiled-coil domain containing 132 (CCDC132), transcript variant 1, mRNA.
NM_000476	AK1	Homo sapiens adenylate kinase 1 (AK1), mRNA.
NM_004865	TBPL1	Homo sapiens TBP-like 1 (TBPL1), mRNA.
NM_004905	PRDX6	Homo sapiens peroxiredoxin 6 (PRDX6), mRNA.
NM_000137	FAH	Homo sapiens fumarylacetoacetate hydrolase (fumarylacetoacetase) (FAH), mRNA.
NM_002915	RFC3	Homo sapiens replication factor C (activator 1) 3, 38kDa (RFC3), transcript variant 1, mRNA.
BC112256	HIST1H2AI	Homo sapiens histone cluster 1, H2ai, mRNA (cDNA clone MGC:138461 IMAGE:8327724), complete cds.
NM_000190	HMBS	Homo sapiens hydroxymethylbilane synthase (HMBS), transcript variant 1, mRNA.

NM_006468	POLR3C	Homo sapiens polymerase (RNA) III (DNA directed) polypeptide C (62kD) (POLR3C), mRNA.
NM_003258	TK1	Homo sapiens thymidine kinase 1, soluble (TK1), mRNA.
NM_024331	C20orf121	Homo sapiens chromosome 20 open reading frame 121 (C20orf121), transcript variant 1, mRNA.
NM_014895	KIAA1009	Homo sapiens KIAA1009 (KIAA1009), mRNA.
NM_003059	SLC22A4	Homo sapiens solute carrier family 22 (organic cation transporter), member 4 (SLC22A4), mRNA.
NM_078483	SLC36A1	Homo sapiens solute carrier family 36 (proton/amino acid symporter), member 1 (SLC36A1), mRNA.
NM_054027	ANKH	Homo sapiens ankylosis, progressive homolog (mouse) (ANKH), mRNA.
NM_000791	DHFR	Homo sapiens dihydrofolate reductase (DHFR), mRNA.
AK127223	LOC284296	Homo sapiens cDNA FLJ45290 fis, clone BRHIP3002691.
NM_002100	GYPB	Homo sapiens glycophorin B (MNS blood group) (GYPB), mRNA.
NM_000791	DHFR	Homo sapiens dihydrofolate reductase (DHFR), mRNA.
NM_001738	CA1	Homo sapiens carbonic anhydrase I (CA1), mRNA.
NM_004099	STOM	Homo sapiens stomatin (STOM), transcript variant 1, mRNA.
NM_017906	PAK1IP1	Homo sapiens PAK1 interacting protein 1 (PAK1IP1), mRNA.
NM_001003945	ALAD	Homo sapiens aminolevulinate, delta-, dehydratase (ALAD), transcript variant 1, mRNA.
AF495725	SLC25A37	Homo sapiens FP15737 mRNA, complete cds.
NM_001008708	CHAC2	Homo sapiens ChaC, cation transport regulator homolog 2 (E. coli) (CHAC2), mRNA.
NM_015216	HISPPD1	Homo sapiens histidine acid phosphatase domain containing 1 (HISPPD1), mRNA.
NM_024798	SNX22	Homo sapiens sorting nexin 22 (SNX22), mRNA.
NM_201649	SLC6A9	Homo sapiens solute carrier family 6 (neurotransmitter transporter, glycine), member 9 (SLC6A9), transcript variant 2, mRNA.
NM_030758	OSBP2	Homo sapiens oxysterol binding protein 2 (OSBP2), transcript variant 1, mRNA.
NM_005687	FARSB	Homo sapiens phenylalanyl-tRNA synthetase, beta subunit (FARSB), mRNA.
NM_000374	UROD	Homo sapiens uroporphyrinogen decarboxylase (UROD), mRNA.
NM_032505	KBTBD8	Homo sapiens kelch repeat and BTB (POZ) domain containing 8 (KBTBD8), mRNA.
NM_175061	JAZF1	Homo sapiens JAZF zinc finger 1 (JAZF1), mRNA.
NM_032385	C5orf4	Homo sapiens chromosome 5 open reading frame 4 (C5orf4), transcript variant 2, mRNA.
NM_020890	KIAA1524	Homo sapiens KIAA1524 (KIAA1524), mRNA.
NM_016124	RHD	Homo sapiens Rh blood group, D antigen (RHD), mRNA.
NM_002099	GYPA	Homo sapiens glycophorin A (MNS blood group) (GYPA), mRNA.
NM_003038	SLC1A4	Homo sapiens solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 (SLC1A4), mRNA.
BC013293	SNCA	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor), mRNA (cDNA clone MGC:3484 IMAGE:3604532), complete cds.
NM_174977	SEC14L4	Homo sapiens SEC14-like 4 (S. cerevisiae) (SEC14L4), mRNA.
NM_003526	HIST1H2BC	Homo sapiens histone cluster 1, H2bc (HIST1H2BC), mRNA.
BC029438	FRRS1	Homo sapiens cDNA clone IMAGE:4603717, partial cds.
NM_001029884	PLEKHG1	Homo sapiens pleckstrin homology domain containing, family G (with RhoGef domain) member 1 (PLEKHG1), mRNA.
NM_000788	DCK	Homo sapiens deoxycytidine kinase (DCK), mRNA.
NM_182915	STEAP3	Homo sapiens STEAP family member 3 (STEAP3), transcript variant 1, mRNA.
NM_004827	ABCG2	Homo sapiens ATP-binding cassette, sub-family G (WHITE), member 2 (ABCG2), mRNA.
NM_003189	TAL1	Homo sapiens T-cell acute lymphocytic leukemia 1 (TAL1), mRNA.
NM_004900	APOBEC3B	Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B (APOBEC3B), mRNA.
NM_004091	E2F2	Homo sapiens E2F transcription factor 2 (E2F2), mRNA.
NM_003884	PCAF	Homo sapiens p300/CBP-associated factor (PCAF), mRNA.
NM_007111	TFDP1	Homo sapiens transcription factor Dp-1 (TFDP1), mRNA.
NM_018571	ALS2CR2	Homo sapiens amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2 (ALS2CR2), mRNA.
NM_020792	AADACL1	Homo sapiens arylacetamide deacetylase-like 1 (AADACL1), mRNA.
NM_001003938	HBM	Homo sapiens hemoglobin, mu (HBM), mRNA.
NM_017508	SOX6	Homo sapiens SRY (sex determining region Y)-box 6 (SOX6), transcript variant 1, mRNA.
NM_001017420	ESCO2	Homo sapiens establishment of cohesion 1 homolog 2 (S. cerevisiae) (ESCO2), mRNA.
NM_033402	LRRCC1	Homo sapiens leucine rich repeat and coiled-coil domain containing 1 (LRRCC1), transcript variant 1, mRNA.
NM_022821	ELOVL1	Homo sapiens elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1 (ELOVL1), mRNA.
NM_003944	SELENBP1	Homo sapiens selenium binding protein 1 (SELENBP1), mRNA.
NM_004528	MGST3	Homo sapiens microsomal glutathione S-transferase 3 (MGST3), mRNA.
NM_018437	HEMGN	Homo sapiens hemogen (HEMGN), transcript variant 1, mRNA.
NM_020485	RHCE	Homo sapiens Rh blood group, CcEe antigens (RHCE), transcript variant 1, mRNA.
NM_015049	TRAK2	Homo sapiens trafficking protein, kinesin binding 2 (TRAK2), mRNA.
NM_021071	ART4	Homo sapiens ADP-ribosyltransferase 4 (Dombrock blood group) (ART4), mRNA.
XM_496207	SLFN14	PREDICTED: Homo sapiens schlafen family member 14 (SLFN14), mRNA.

REPRESSED GENES

RefSeq	Symbol	Name
AL137303	TBC1D2B	Homo sapiens mRNA; cDNA DKFZp434O086 (from clone DKFZp434O086).
NM_014282	HABP4	Homo sapiens hyaluronan binding protein 4 (HABP4), mRNA.
AY317139	RAI14	Homo sapiens RAI14 isoform mRNA, complete cds.
NM_003127	SPTAN1	Homo sapiens spectrin, alpha, non-erythrocytic 1 (alpha-fodrin) (SPTAN1), mRNA.
NM_006035	CDC42BPB	Homo sapiens CDC42 binding protein kinase beta (DMPK-like) (CDC42BPB), mRNA.
NM_005100	AKAP12	Homo sapiens A kinase (PRKA) anchor protein (gravin) 12 (AKAP12), transcript variant 1, mRNA.
NM_181659	NCOA3	Homo sapiens nuclear receptor coactivator 3 (NCOA3), transcript variant 1, mRNA.

NM_152277	UBTD2	Homo sapiens ubiquitin domain containing 2 (UBTD2), mRNA.
NM_006933	SLC5A3	Homo sapiens solute carrier family 5 (inositol transporters), member 3 (SLC5A3), mRNA.
NM_014849	SV2A	Homo sapiens synaptic vesicle glycoprotein 2A (SV2A), mRNA.
NM_024671	ZNF768	Homo sapiens zinc finger protein 768 (ZNF768), mRNA.
NM_006933	SLC5A3	Homo sapiens solute carrier family 5 (inositol transporters), member 3 (SLC5A3), mRNA.
NM_080388	S100A16	Homo sapiens S100 calcium binding protein A16 (S100A16), mRNA.
NM_004996	ABCC1	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 1 (ABCC1), transcript variant 1, mRNA.
NM_004530	MMP2	Homo sapiens matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) (MMP2), mRNA.
NM_080881	DBN1	Homo sapiens drebrin 1 (DBN1), transcript variant 2, mRNA.
NM_001431	EPB41L2	Homo sapiens erythrocyte membrane protein band 4.1-like 2 (EPB41L2), mRNA.
NM_014909	VASH1	Homo sapiens vasohibin 1 (VASH1), mRNA.
NM_005440	RND2	Homo sapiens Rho family GTPase 2 (RND2), mRNA.
NM_001122	ADFP	Homo sapiens adipose differentiation-related protein (ADFP), mRNA.
NM_004445	EPHB6	Homo sapiens EPH receptor B6 (EPHB6), mRNA.
NM_014731	ProSAPiP1	Homo sapiens ProSAPiP1 protein (ProSAPiP1), mRNA.
NM_001037954	DIXDC1	Homo sapiens DIX domain containing 1 (DIXDC1), transcript variant 1, mRNA.
NM_004843	IL27RA	Homo sapiens interleukin 27 receptor, alpha (IL27RA), mRNA.
NM_003388	CLIP2	Homo sapiens CAP-GLY domain containing linker protein 2 (CLIP2), transcript variant 1, mRNA.
BC004958	LRRFIP1	Homo sapiens leucine rich repeat (in FLII) interacting protein 1, mRNA (cDNA clone IMAGE:3631907).
NM_053039	UGT2B28	Homo sapiens UDP glucuronosyltransferase 2 family, polypeptide B28 (UGT2B28), mRNA.
NM_000690	ALDH2	Homo sapiens aldehyde dehydrogenase 2 family (mitochondrial) (ALDH2), nuclear gene encoding mitochondrial protein, mRNA.
NM_004995	MMP14	Homo sapiens matrix metallopeptidase 14 (membrane-inserted) (MMP14), mRNA.
NM_000221	KHK	Homo sapiens ketohexokinase (fructokinase) (KHK), transcript variant a, mRNA.
NM_030949	PPP1R14C	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 14C (PPP1R14C), mRNA.
NM_006848	CCDC85B	Homo sapiens coiled-coil domain containing 85B (CCDC85B), mRNA.
BC017237	STX10	Homo sapiens syntaxin 10, mRNA (cDNA clone MGC:19625 IMAGE:4125873), complete cds.
NM_004415	DSP	Homo sapiens desmoplakin (DSP), transcript variant 1, mRNA.
NM_199330	HOMER2	Homo sapiens homer homolog 2 (Drosophila) (HOMER2), transcript variant 2, mRNA.
NM_152280	SYT11	Homo sapiens synaptotagmin XI (SYT11), mRNA.
NM_002473	MYH9	Homo sapiens myosin, heavy chain 9, non-muscle (MYH9), mRNA.
NM_031432	UCK1	Homo sapiens uridine-cytidine kinase 1 (UCK1), mRNA.
XR_015761	LOC730041	PREDICTED: Homo sapiens similar to ras-like protein TC10 (LOC730041), mRNA.
NM_000584	IL8	Homo sapiens interleukin 8 (IL8), mRNA.
NM_003647	DGKE	Homo sapiens diacylglycerol kinase, epsilon 64kDa (DGKE), mRNA.
NM_032595	PPP1R9B	Homo sapiens protein phosphatase 1, regulatory (inhibitor) subunit 9B (PPP1R9B), mRNA.
NM_001001520	HDGF2	Homo sapiens hepatoma-derived growth factor-related protein 2 (HDGF2), transcript variant 1, mRNA.
NM_006736	DNAJB2	Homo sapiens DnaJ (Hsp40) homolog, subfamily B, member 2 (DNAJB2), transcript variant 2, mRNA.

Supplementary Table VI: List of TAL1-dependent genes in Jurkat cells, defined as the genes that are differentially expressed upon TAL1 KD (identified by gene expression microarray and/or RT-qPCR) and have at least one TAL1 peak 50 kb upstream or downstream of their TSS

ACTIVATED GENES

RefSeq	Symbol	Name
NM_000369	TSHR	Homo sapiens thyroid stimulating hormone receptor (TSHR), transcript variant 1, mRNA.
NM_019023	PRMT7	Homo sapiens protein arginine methyltransferase 7 (PRMT7), mRNA.
NM_020070	IGLL1	Homo sapiens immunoglobulin lambda-like polypeptide 1 (IGLL1), transcript variant 1, mRNA.
NM_002134	HMOX2	Homo sapiens heme oxygenase (decycling) 2 (HMOX2), mRNA.
BC104834	C14orf174	Homo sapiens chromosome 14 open reading frame 174, mRNA (cDNA clone MGC:132494 IMAGE:8143837), complete cds.
BC000253	ADSL	Homo sapiens adenylosuccinate lyase, mRNA (cDNA clone MGC:1847 IMAGE:3352079), complete cds.
XM_001132717	UNQ1945	PREDICTED: Homo sapiens hypothetical LOC646513 (LOC646513), mRNA.
NM_013302	EEF2K	Homo sapiens eukaryotic elongation factor-2 kinase (EEF2K), mRNA.
NM_018169	C12orf35	Homo sapiens chromosome 12 open reading frame 35 (C12orf35), mRNA.
NM_152617	RNF168	Homo sapiens ring finger protein 168 (RNF168), mRNA.
NM_006633	IQGAP2	Homo sapiens IQ motif containing GTPase activating protein 2 (IQGAP2), mRNA.
NM_015085	GARNL4	Homo sapiens GTPase activating Rap/RanGAP domain-like 4 (GARNL4), transcript variant 1, mRNA.
NM_001013672	LOC400566	Homo sapiens hypothetical gene supported by AK128660 (LOC400566), mRNA.
NM_153236	GIMAP7	Homo sapiens GTPase, IMAP family member 7 (GIMAP7), mRNA.
NM_145167	PIGM	Homo sapiens phosphatidylinositol glycan anchor biosynthesis, class M (PIGM), mRNA.
NM_130759	GIMAP1	Homo sapiens GTPase, IMAP family member 1 (GIMAP1), mRNA.
NM_003325	HIRA	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.
NM_000016	ACADM	Homo sapiens acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain (ACADM), nuclear gene encoding mitochondrial protein, mRNA.
NM_014671	UBE3C	Homo sapiens ubiquitin protein ligase E3C (UBE3C), mRNA.
NM_001080998	FRG2B	Homo sapiens FSHD region gene 2 family, member B (FRG2B), mRNA.
XR_015866	LOC731308	PREDICTED: Homo sapiens similar to dynein, cytoplasmic, light peptide (LOC731308), mRNA.
AY245544	TRIB2	Homo sapiens TRB2 protein mRNA, complete cds.
U63336	PRR3	Human MHC Class I region proline rich protein mRNA, complete cds.
NM_023922	TAS2R14	Homo sapiens taste receptor, type 2, member 14 (TAS2R14), mRNA.
NM_000885	ITGA4	Homo sapiens integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) (ITGA4), mRNA.
NM_139165	RAET1E	Homo sapiens retinoic acid early transcript 1E (RAET1E), mRNA.
NM_178858	SFXN2	Homo sapiens sideroflexin 2 (SFXN2), mRNA.
BC000988	C1orf217	Homo sapiens chromosome 1 open reading frame 217, mRNA (cDNA clone MGC:5457 IMAGE:3450898), complete cds.
NM_003177	SYK	Homo sapiens spleen tyrosine kinase (SYK), mRNA.
NM_006566	CD226	Homo sapiens CD226 molecule (CD226), mRNA.
NM_012089	ABCB10	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 10 (ABCB10), nuclear gene encoding mitochondrial protein, mRNA.
AK124976	FLJ42986	Homo sapiens cDNA FLJ42986 fis, clone BRTHA2008535.
NM_004593	SFRS10	Homo sapiens splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila) (SFRS10), mRNA.
NM_018122	DARS2	Homo sapiens aspartyl-tRNA synthetase 2, mitochondrial (DARS2), mRNA.
NM_016300	ARPP-21	Homo sapiens cyclic AMP-regulated phosphoprotein, 21 kD (ARPP21), transcript variant 1, mRNA
NM_004336	BUB1	Homo sapiens budding uninhibited by benzimidazoles 1 homolog (yeast) (BUB1), mRNA
NM_001763	CD1A	Homo sapiens CD1a molecule (CD1A), mRNA
NM_030893	CD1E	Homo sapiens CD1e molecule (CD1E), transcript variant 1, mRNA
NM_001259	CDK6	Homo sapiens cyclin-dependent kinase 6 (CDK6), transcript variant 1, mRNA
NM_024491	CEP70	Homo sapiens centrosomal protein 70kDa (CEP70), mRNA
NM_024503	HIVEP3	Homo sapiens human immunodeficiency virus type I enhancer binding protein 3 (HIVEP3), mRNA
NM_024629	MLF1IP	Homo sapiens MLF1 interacting protein (MLF1IP), mRNA
NM_005238	ETS1	Homo sapiens v-ets erythroblastosis virus E26 oncogene homolog 1 (avian) (ETS1), transcript variant 2, mRNA
NM_001754	RUNX1	Homo sapiens runt-related transcription factor 1 (RUNX1), transcript variant 1, mRNA

REPRESSED GENES

RefSeq	Symbol	Name
NM_006290	TNFAIP3	Homo sapiens tumor necrosis factor, alpha-induced protein 3 (TNFAIP3), mRNA.
NM_002228	JUN	Homo sapiens jun oncogene (JUN), mRNA.
NM_021127	PMAIP1	Homo sapiens phorbol-12-myristate-13-acetate-induced protein 1 (PMAIP1), mRNA.
NM_001165	BIRC3	Homo sapiens baculoviral IAP repeat-containing 3 (BIRC3), transcript variant 1, mRNA.
NM_007207	DUSP10	Homo sapiens dual specificity phosphatase 10 (DUSP10), transcript variant 1, mRNA.
NM_004198	CHRNA6	Homo sapiens cholinergic receptor, nicotinic, alpha 6 (CHRNA6), mRNA.
NM_003897	IER3	Homo sapiens immediate early response 3 (IER3), mRNA.
NM_019058	DDIT4	Homo sapiens DNA-damage-inducible transcript 4 (DDIT4), mRNA.
NM_004926	ZFP36L1	Homo sapiens zinc finger protein 36, C3H type-like 1 (ZFP36L1), mRNA.

NM_013437	LRP12	Homo sapiens low density lipoprotein-related protein 12 (LRP12), mRNA.
NM_001235	SERPINH1	Homo sapiens serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), mRNA.
NM_006226	PLCL1	Homo sapiens phospholipase C-like 1 (PLCL1), mRNA.
NM_001098402	ZNF295	Homo sapiens zinc finger protein 295 (ZNF295), transcript variant 1, mRNA.
NM_002908	REL	Homo sapiens v-rel reticuloendotheliosis viral oncogene homolog (avian) (REL), mRNA.
NM_006763	BTG2	Homo sapiens BTG family, member 2 (BTG2), mRNA.
NM_020964	KIAA1632	Homo sapiens KIAA1632 (KIAA1632), mRNA.
NM_002116	HLA-A	Homo sapiens major histocompatibility complex, class I, A (HLA-A), mRNA.
NM_031200	CCR9	Homo sapiens chemokine (C-C motif) receptor 9 (CCR9), transcript variant A, mRNA.
NM_001031683	IFIT3	Homo sapiens interferon-induced protein with tetratricopeptide repeats 3 (IFIT3), mRNA.
NM_016470	C20orf111	Homo sapiens chromosome 20 open reading frame 111 (C20orf111), mRNA.
NM_005213	CSTA	Homo sapiens cystatin A (stefin A) (CSTA), mRNA.
AB022718	C10orf10	Homo sapiens mRNA for DEPP (decidual protein induced by progesterone), complete cds.
NM_001105079	FBRS	Homo sapiens fibrosin (FBRS), mRNA.
NM_001706	BCL6	Homo sapiens B-cell CLL/lymphoma 6 (zinc finger protein 51) (BCL6), transcript variant 1, mRNA.
NM_030802	FAM117A	Homo sapiens family with sequence similarity 117, member A (FAM117A), mRNA.
NM_013400	REPIN1	Homo sapiens replication initiator 1 (REPIN1), transcript variant 1, mRNA.
NM_024896	ERMP1	Homo sapiens endoplasmic reticulum metallopeptidase 1 (ERMP1), mRNA.
NM_024119	DHX58	Homo sapiens DEXH (Asp-Glu-X-His) box polypeptide 58 (DHX58), mRNA.
NM_004417	DUSP1	Homo sapiens dual specificity phosphatase 1 (DUSP1), mRNA.
NM_003711	PPAP2A	Homo sapiens phosphatidic acid phosphatase type 2A (PPAP2A), transcript variant 1, mRNA.
NR_003138	SNHG10	Homo sapiens small nucleolar RNA host gene (non-protein coding) 10 (SNHG10) on chromosome 14.
NM_001093779	RP5-1033B10.1	Homo sapiens similar to ribosomal protein S18 (LOC730754), mRNA.
NM_152608	C1orf55	Homo sapiens chromosome 1 open reading frame 55 (C1orf55), mRNA.
NM_004760	STK17A	Homo sapiens serine/threonine kinase 17a (STK17A), mRNA.
NM_175852	TXLNA	Homo sapiens taxilin alpha (TXLNA), mRNA.
NM_031296	RAB33B	Homo sapiens RAB33B, member RAS oncogene family (RAB33B), mRNA.
NM_005737	ARL4C	Homo sapiens ADP-ribosylation factor-like 4C (ARL4C), mRNA.
NM_031412	GABARAPL1	Homo sapiens GABA(A) receptor-associated protein like 1 (GABARAPL1), mRNA.
NM_002648	PIM1	Homo sapiens pim-1 oncogene (PIM1), mRNA.
NM_001781	CD69	Homo sapiens CD69 molecule (CD69), mRNA.
NM_001547	IFIT2	Homo sapiens interferon-induced protein with tetratricopeptide repeats 2 (IFIT2), mRNA.
NM_004073	PLK3	Homo sapiens polo-like kinase 3 (Drosophila) (PLK3), mRNA.
BX538158	STX3	Homo sapiens mRNA; cDNA DKFZp686L1857 (from clone DKFZp686L1857); complete cds.
NM_000314	PTEN	Homo sapiens phosphatase and tensin homolog (mutated in multiple advanced cancers 1) (PTEN), mRNA.
BC080645	RNF187	Homo sapiens ring finger protein 187, mRNA (cDNA clone IMAGE:5093646).
NM_001098526	AMICA1	Homo sapiens adhesion molecule, interacts with CXADR antigen 1 (AMICA1), transcript variant 1, mRNA.
NM_020895	GRAMD1A	Homo sapiens GRAM domain containing 1A (GRAMD1A), mRNA.
NM_017709	FAM46C	Homo sapiens family with sequence similarity 46, member C (FAM46C), mRNA.
NM_001007561	IRGQ	Homo sapiens immunity-related GTPase family, Q (IRGQ), mRNA.
NM_170600	SH2D3C	Homo sapiens SH2 domain containing 3C (SH2D3C), transcript variant 2, mRNA.
NM_006373	VAT1	Homo sapiens vesicle amine transport protein 1 homolog (T. californica) (VAT1), mRNA.
BC035592	TRGV5	Homo sapiens T cell receptor gamma variable 5, mRNA (cDNA clone MGC:45453 IMAGE:5575279), complete cds.
NM_017772	TBC1D22B	Homo sapiens TBC1 domain family, member 22B (TBC1D22B), mRNA.
NM_058243	BRD4	Homo sapiens bromodomain containing 4 (BRD4), transcript variant long, mRNA.
NM_000987	RPL26	Homo sapiens ribosomal protein L26 (RPL26), mRNA.
NM_005801	EIF1	Homo sapiens eukaryotic translation initiation factor 1 (EIF1), mRNA.
NM_000311	PRNP	Homo sapiens prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia) (PRNP), transcript variant 1, mRNA.
NM_006253	PRKAB1	Homo sapiens protein kinase, AMP-activated, beta 1 non-catalytic subunit (PRKAB1), mRNA.
NM_033625	RPL34	Homo sapiens ribosomal protein L34 (RPL34), transcript variant 2, mRNA.
NM_024298	LENG4	Homo sapiens leukocyte receptor cluster (LRC) member 4 (LENG4), mRNA.
AF164793	C1orf119	Homo sapiens protein x 013 mRNA, complete cds.
NM_022767	ISG20L1	Homo sapiens interferon stimulated exonuclease gene 20kDa-like 1 (ISG20L1), mRNA.
NM_003745	SOCS1	Homo sapiens suppressor of cytokine signaling 1 (SOCS1), mRNA.
NM_006804	STARD3	Homo sapiens StAR-related lipid transfer (START) domain containing 3 (STARD3), mRNA.
AY377981	IKZF3	Homo sapiens aiolos isoform hAio-ALT (ZNFN1A3) mRNA, complete cds, alternatively spliced.
NM_006383	CIB2	Homo sapiens calcium and integrin binding family member 2 (CIB2), mRNA
NM_005514	HLA-B	Homo sapiens major histocompatibility complex, class I, B (HLA-B), mRNA
NM_005516	HLA-E	Homo sapiens major histocompatibility complex, class I, E (HLA-E), mRNA
NM_014729	TOX	Homo sapiens thymocyte selection-associated high mobility group box (TOX), mRNA
NM_020654	SENP7	Homo sapiens SUMO1/sentrin specific peptidase 7 (SENP7), transcript variant 1, mRNA
NM_003810	TNFSF10	Homo sapiens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), mRNA
NM_004843	IL27RA	Homo sapiens interleukin 27 receptor, alpha (IL27RA), mRNA
NM_003998	NFKB1	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1), transcript variant 1, mRNA