

Top 100 upregulated genes

Symbol	log2(fc)	PValue	FDR	Name
ELOVL3	9.72	1.35E-06	1.39E-05	ELOVL fatty acid elongase 3
ANG	8.88	7.27E-05	5.04E-04	novel protein, ANG-RNASE4 readthrough
KRT16	8.48	1.09E-03	5.32E-03	keratin 16
MAGED1	8.04	5.15E-05	3.69E-04	MAGE family member D1
LHFPL3	8.00	5.69E-63	1.55E-59	LHFPL tetraspan subfamily member 3
NDUFB5	7.78	6.38E-05	4.49E-04	novel protein
NEUROD1	7.70	2.93E-03	1.24E-02	neuronal differentiation 1
KRT38	6.69	1.28E-02	4.26E-02	keratin 38
TRIM2	6.10	1.52E-02	4.91E-02	novel protein
GRIP2	4.84	4.04E-05	2.98E-04	glutamate receptor interacting protein 2
PCDHGA8	4.82	2.57E-03	1.11E-02	protocadherin gamma subfamily A, 8
GABRA4	4.76	1.36E-53	1.59E-50	gamma-aminobutyric acid type A receptor subunit alpha4
DIP2C	4.66	3.53E-07	4.13E-06	disco interacting protein 2 homolog C
ITGB3	4.62	4.62E-03	1.82E-02	integrin subunit beta 3
SHISA2	4.54	9.29E-08	1.22E-06	shisa family member 2
ISL1	4.47	4.94E-11	1.17E-09	ISL LIM homeobox 1
ERVH48-1	4.31	2.32E-09	4.10E-08	endogenous retrovirus group 48 member 1
KRT9	4.19	3.23E-35	1.13E-32	keratin 9
HSD11B1	4.04	1.41E-34	4.62E-32	hydroxysteroid 11-beta dehydrogenase 1
JAK3	3.96	4.98E-35	1.67E-32	Janus kinase 3
ACTA2	3.96	4.94E-03	1.93E-02	actin alpha 2, smooth muscle
TMEM132	3.94	6.11E-20	4.59E-18	transmembrane protein 132B
IGF2BP3	3.91	6.15E-109	5.04E-105	insulin like growth factor 2 mRNA binding protein 3
TTBK1	3.83	5.36E-50	5.50E-47	tau tubulin kinase 1
CFAP20DC	3.73	5.05E-05	3.64E-04	CFAP20 domain containing
MYT1	3.63	1.19E-75	6.50E-72	myelin transcription factor 1
KIF26B	3.50	7.28E-47	5.97E-44	kinesin family member 26B
MGAM2	3.46	4.42E-06	4.07E-05	maltase-glucoamylase 2 (putative)
PEX5L	3.46	3.78E-33	1.11E-30	peroxisomal biogenesis factor 5 like
MFAP4	3.43	5.36E-15	2.20E-13	microfibril associated protein 4
C10orf90	3.39	5.19E-09	8.63E-08	chromosome 10 open reading frame 90
WNT9A	3.38	2.36E-11	5.92E-10	Wnt family member 9A
MAPT	3.37	1.95E-11	4.96E-10	microtubule associated protein tau
RLN3	3.36	1.34E-02	4.43E-02	relaxin 3
ADAMTS9	3.31	1.26E-08	1.96E-07	ADAM metallopeptidase with thrombospondin type 1 motif 9
PRTG	3.28	7.07E-10	1.36E-08	protogenin
FIGN	3.27	2.94E-37	1.34E-34	fidgetin, microtubule severing factor
SCHIP1	3.25	1.45E-03	6.82E-03	schwannomin interacting protein 1
DPEP1	3.25	3.49E-24	3.95E-22	dipeptidase 1
NAV1	3.24	4.27E-54	5.39E-51	neuron navigator 1
ROS1	3.19	1.30E-10	2.85E-09	ROS proto-oncogene 1, receptor tyrosine kinase
SMKR1	3.15	2.03E-06	2.02E-05	small lysine rich protein 1
IL12RB2	3.11	3.32E-35	1.13E-32	interleukin 12 receptor subunit beta 2
HS2ST1	3.11	9.86E-18	5.62E-16	novel protein
ANKRD55	3.10	1.79E-11	4.58E-10	ankyrin repeat domain 55
FLT1	3.04	1.67E-05	1.34E-04	fms related receptor tyrosine kinase 1
OSBP2	3.02	4.36E-26	6.50E-24	oxysterol binding protein 2
ATP6V1C2	3.01	1.23E-12	3.76E-11	ATPase H+ transporting V1 subunit C2
GREB1	2.99	1.63E-12	4.91E-11	growth regulating estrogen receptor binding 1
LONRF2	2.96	1.97E-31	4.91E-29	LON peptidase N-terminal domain and ring finger 2
BIRC7	2.96	5.60E-08	7.77E-07	baculoviral IAP repeat containing 7
CAMKV	2.95	7.00E-08	9.53E-07	CaM kinase like vesicle associated
STUM	2.95	2.88E-24	3.35E-22	stum, mechanosensory transduction mediator homolog
KY	2.92	1.62E-05	1.30E-04	kyphoscoliosis peptidase
HS3ST1	2.89	1.02E-22	9.68E-21	heparan sulfate-glucosamine 3-sulfotransferase 1
VAT1L	2.86	4.57E-29	8.72E-27	vesicle amine transport 1 like
TM4SF1	2.85	1.47E-03	6.89E-03	transmembrane 4 L six family member 1
PCDHGB4	2.83	1.36E-16	6.76E-15	protocadherin gamma subfamily B, 4
UNCX	2.79	2.81E-13	9.37E-12	UNC homeobox
MAP7D2	2.79	4.16E-10	8.38E-09	MAP7 domain containing 2
NKAIN1	2.76	1.37E-21	1.18E-19	sodium/potassium transporting ATPase interacting 1
LPO	2.75	4.40E-33	1.27E-30	lactoperoxidase
RBM20	2.75	1.48E-04	9.47E-04	RNA binding motif protein 20
MEIS1	2.74	8.74E-04	4.44E-03	Meis homeobox 1
ROPN1L	2.73	2.87E-09	4.99E-08	rophilin associated tail protein 1 like
AOPEP	2.72	7.09E-25	9.38E-23	aminopeptidase O (putative)
ASAH2B	2.70	2.01E-03	9.06E-03	N-acylsphingosine amidohydrolase 2B
SLFN12	2.68	7.59E-03	2.76E-02	schlafen family member 12
DSG2	2.67	6.35E-24	6.94E-22	desmoglein 2
PITPNM3	2.67	9.61E-08	1.26E-06	PITPNM family member 3
TRNP1	2.65	1.63E-17	9.06E-16	TMF1 regulated nuclear protein 1
SERPINB1C	2.65	5.60E-26	8.13E-24	serpin family B member 10
PRRT4	2.65	8.17E-10	1.56E-08	proline rich transmembrane protein 4
FAS	2.64	2.49E-08	3.67E-07	Fas cell surface death receptor
SEMA3A	2.62	9.71E-17	5.01E-15	semaphorin 3A
SVEP1	2.62	4.90E-16	2.29E-14	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
IL18R1	2.62	2.07E-04	1.27E-03	interleukin 18 receptor 1
ANXA8L1	2.60	6.59E-03	2.45E-02	annexin A8 like 1
ADAM12	2.60	5.58E-04	3.01E-03	ADAM metallopeptidase domain 12
GPR68	2.58	4.56E-07	5.22E-06	G protein-coupled receptor 68
SAMSN1	2.56	5.10E-38	2.53E-35	SAM domain, SH3 domain and nuclear localization signals 1
TRPC1	2.56	1.60E-08	2.44E-07	transient receptor potential cation channel subfamily C member 1
CDKL5	2.52	9.42E-19	6.26E-17	cyclin dependent kinase like 5
DUSP16	2.51	1.25E-22	1.18E-20	dual specificity phosphatase 16
SEPTIN5	2.49	2.51E-19	1.79E-17	novel transcript
DLL4	2.48	1.95E-07	2.39E-06	delta like canonical Notch ligand 4
HMSD	2.47	7.06E-11	1.62E-09	histocompatibility minor serpin domain containing
TNN	2.46	2.10E-41	1.23E-38	tenascin N
ENAH	2.43	5.18E-16	2.41E-14	ENAH actin regulator
PSKH2	2.43	8.62E-03	3.07E-02	protein serine kinase H2
LPL	2.42	9.64E-44	6.87E-41	lipoprotein lipase
ARFGEF3	2.39	1.30E-48	1.12E-45	ARFGEF family member 3
GRK1	2.38	6.02E-06	5.38E-05	G protein-coupled receptor kinase 1
IL34	2.36	9.29E-05	6.29E-04	interleukin 34
INHBA	2.33	4.49E-03	1.78E-02	inhibin subunit beta A
SEPTIN5	2.33	6.23E-33	1.76E-30	septin 5
STXL2	2.30	7.99E-04	4.10E-03	serine/threonine/tyrosine interacting like 2
MMP24	2.29	2.86E-04	1.68E-03	matrix metallopeptidase 24
CXCL8	2.28	4.83E-03	1.89E-02	C-X-C motif chemokine ligand 8
LRRC2	2.27	6.07E-03	2.29E-02	leucine rich repeat containing 2

Top 100 downregulated genes

Symbol	log2(fc)	PValue	FDR	Name
MTARC1	-8.92	7.50E-05	5.19E-04	novel protein
TM9SF1	-8.87	6.87E-07	7.55E-06	novel protein
NUDT10	-8.32	1.36E-04	8.81E-04	nudix hydrolase 10
PYHIN1	-8.16	1.08E-03	5.27E-03	pyrin and HIN domain family member 1
AJAP1	-7.89	1.57E-08	2.40E-07	adherens junctions associated protein 1
CPNE4	-7.77	2.36E-03	1.03E-02	copine 4
GSDMC	-7.76	1.65E-03	7.60E-03	gasdermin C
KCTD8	-7.59	1.71E-03	7.87E-03	potassium channel tetramerization domain containing 8
SLC7A10	-7.55	5.57E-03	2.13E-02	solute carrier family 7 member 10
DTX3	-7.39	1.02E-02	3.52E-02	deltex E3 ubiquitin ligase 3
FAM189A2	-7.27	4.92E-03	1.92E-02	family with sequence similarity 189 member A2
LIPN	-7.19	2.63E-03	1.14E-02	lipase family member N
CCDC85A	-7.18	3.80E-04	2.15E-03	coiled-coil domain containing 85A
NRP2	-6.94	3.20E-03	1.34E-02	neuropilin 2
KDM4A	-6.94	1.05E-02	3.60E-02	novel transcript
DMRTA1	-6.59	6.47E-04	3.42E-03	DMRT like family A1
MDGA2	-6.39	9.98E-04	4.95E-03	MAM domain containing glycosylphosphatidylinositol anchor 2
KIF19	-6.35	1.40E-02	4.59E-02	kinesin family member 19
NECTIN3	-6.33	9.42E-09	1.51E-07	nectin cell adhesion molecule 3
WSCD1	-6.27	1.17E-03	5.65E-03	WSC domain containing 1
ITIHS	-6.19	5.37E-03	2.06E-02	inter-alpha-trypsin inhibitor heavy chain 5
SPON1	-6.13	7.60E-03	2.76E-02	spondin 1
CRLF1	-6.07	1.96E-05	1.55E-04	cytokine receptor like factor 1
TAFAS	-6.07	2.55E-05	1.97E-04	TAF4 chemokine like family member 5
UTP14C	-6.02	1.95E-03	8.79E-03	UTP14C small subunit processome component
DCLK3	-5.68	1.52E-02	4.93E-02	doublecortin like kinase 3
AKRIC3	-5.60	2.34E-06	2.30E-05	aldo-keto reductase family 1 member C3
HTRA3	-5.47	1.41E-09	2.58E-08	HtrA serine peptidase 3
GSC	-5.43	2.63E-04	1.56E-03	goosecoid homeobox
ZNF772	-5.36	9.66E-05	6.52E-04	zinc finger protein 772
PLPPR4	-5.34	2.36E-03	1.03E-02	phospholipid phosphatase related 4
IFI27	-5.31	2.55E-04	1.53E-03	interferon alpha inducible protein 27
ADAMTS7	-5.30	3.70E-05	2.75E-04	ADAM metallopeptidase with thrombospondin type 1 motif 7
ZNF717	-5.29	4.37E-09	7.32E-08	zinc finger protein 717
ZNF320	-5.24	1.78E-18	1.14E-16	zinc finger protein 320
EPHX2	-5.11	4.55E-10	9.09E-09	epoxide hydrolase 2
C11orf52	-5.07	3.69E-05	2.75E-04	chromosome 11 open reading frame 52
SLC2A10	-5.05	3.04E-07	3.60E-06	solute carrier family 2 member 10
POU3F3	-5.04	8.94E-04	4.53E-03	POU class 3 homeobox 3
TMSB15B	-4.99	2.37E-04	1.43E-03	thymosin beta 15B
SHROOM4	-4.95	1.97E-07	2.41E-06	shroom family member 4
CNTN1	-4.93	4.75E-03	1.86E-02	contactin 1
ZNF827	-4.92	2.11E-03	9.41E-03	zinc finger protein 827
H2BC8	-4.87	2.57E-03	1.11E-02	H2B clustered histone 8
NAP1L3	-4.86	4.36E-08	6.15E-07	nucleosome assembly protein 1 like 3
BEX4	-4.86	7.27E-14	2.57E-12	brain expressed X-linked 4
MTARC2	-4.84	2.61E-05	2.01E-04	mitochondrial amidoxime reducing component 2
INA	-4.84	3.55E-03	1.46E-02	internexin neuronal intermediate filament protein alpha
MPPED2	-4.84	1.03E-11	2.74E-10	metallophosphoesterase domain containing 2
CCR3	-4.81	6.35E-03	2.37E-02	C-C motif chemokine receptor 3
CDHR1	-4.79	2.64E-06	2.56E-05	cadherin related family member 1
H2AC16	-4.77	4.65E-03	1.83E-02	H2A clustered histone 16
H3C15	-4.77	1.15E-03	5.59E-03	H3 clustered histone 15
SLC7A3	-4.75	2.42E-03	1.06E-02	solute carrier family 7 member 3
GLRB	-4.74	7.47E-16	3.39E-14	glycine receptor beta
TLX1	-4.73	5.29E-03	2.04E-02	T cell leukemia homeobox 1
CADM1	-4.73	2.26E-07	2.73E-06	cell adhesion molecule 1
CLEC10A	-4.73	4.62E-04	2.56E-03	C-type lectin domain containing 10A
GPX7	-4.69	6.65E-19	4.50E-17	glutathione peroxidase 7
TCN2	-4.69	4.83E-11	1.15E-09	transcobalamin 2
PKP2	-4.69	6.36E-05	4.47E-04	plakophilin 2
RBP4	-4.66	7.08E-03	2.61E-02	retinol binding protein 4
CELF5	-4.66	1.29E-02	4.28E-02	CUGBP Elav-like family member 5
ZNF544	-4.63	3.35E-23	3.33E-21	zinc finger protein 544
SLC4A4	-4.59	4.63E-07	5.28E-06	solute carrier family 4 member 4
TUBB4A	-4.58	1.07E-06	1.13E-05	tubulin beta 4A class IVa
HOXC9	-4.57	4.23E-03	1.69E-02	homeobox C9
H2AC18	-4.57	1.96E-03	8.87E-03	H2A clustered histone 18
RENBP	-4.56	8.92E-10	1.69E-08	renin binding protein
BTBD11	-4.56	1.18E-06	1.24E-05	BTB domain containing 11
RAX	-4.55	3.49E-03	1.44E-02	retina and anterior neural fold homeobox
SMIM24	-4.51	4.12E-03	1.66E-02	small integral membrane protein 24
IGSF1	-4.51	9.83E-07	1.05E-05	immunoglobulin superfamily member 1
DLL3	-4.50	6.35E-03	2.37E-02	delta like canonical Notch ligand 3
TSPYL5	-4.48	3.62E-10	7.38E-09	TSPY like 5
BDH1	-4.47	3.06E-07	3.62E-06	3-hydroxybutyrate dehydrogenase 1
SYPL2	-4.47	3.23E-05	2.43E-04	synaptophysin like 2
CACNA2D1	-4.46	3.73E-13	1.22E-11	calcium voltage-gated channel auxiliary subunit alpha2delta 1
PAX9	-4.46	2.10E-06	2.09E-05	paired box 9
CDC42EP1	-4.45	2.38E-29	4.77E-27	CDC42 effector protein 1
TCEAL9	-4.45	1.53E-13	5.24E-12	transcription elongation factor A like 9
STAC	-4.45	1.01E-04	6.77E-04	SH3 and cysteine rich domain
ZBTB16	-4.43	7.69E-03	2.79E-02	zinc finger and BTB domain containing 16
DCANP1	-4.43	2.48E-03	1.08E-02	dendritic cell associated nuclear protein
LARP6	-4.43	1.21E-04	7.94E-04	La ribonucleoprotein 6, translational regulator
LAMP5	-4.42	4.22E-12	1.19E-10	lysosomal associated membrane protein family member 5
C2CD6	-4.41	2.81E-03	1.20E-02	C2 calcium dependent domain containing 6
CPAMD8	-4.41	3.27E-04	1.88E-03	C3 and PZP like alpha-2-macroglobulin domain containing 8
ARMCX1	-4.41	8.29E-05	5.68E-04	armadillo repeat containing X-linked 1
PRTFDC1	-4.39	2.01E-10	4.30E-09	phosphoribosyl transferase domain containing 1
DSC3	-4.38	4.31E-03	1.71E-02	desmocollin 3
PDGFC	-4.37	8.45E-21	6.89E-19	platelet derived growth factor C
B3GALNT1	-4.37	1.70E-16	8.38E-15	beta-1,3-N-acetylglactosaminyltransferase 1 (globoside blood group)
KIF26A	-4.35	1.08E-07	1.40E-06	kinesin family member 26A
DACT1	-4.34	1.04E-02	3.57E-02	dishevelled binding antagonist of beta catenin 1
FAM20C	-4.33	1.51E-07	1.89E-06	FAM20C golgi associated secretory pathway kinase
SYT6	-4.33	1.64E-03	7.57E-03	synaptotagmin 6
PENK	-4.32	8.39E-05	5.74E-04	proenkephalin
TBX4	-4.32	5.93E-12	1.62E-10	T-box transcription factor 4
MACROH2	-4.32	1.92E-36	7.86E-34	macroH2A.2 histone