

REPORT

Data analysis is done with the geneXplain platform release 5.0

Project: data/Projects/testing

Date: Thu Nov 21 2019 10:08:05 GMT-0000 (UTC)

[Workflow](#)

[Histogram](#)

[Up-regulated genes](#)

[Down-regulated genes](#)

[Workflow description](#)



Workflow: Compute differentially expressed genes (Affymetrix probes)

Workflow path: analyses/Workflows/Common/Compute differentially expressed genes (Affymetrix probes)

Workflow parameters

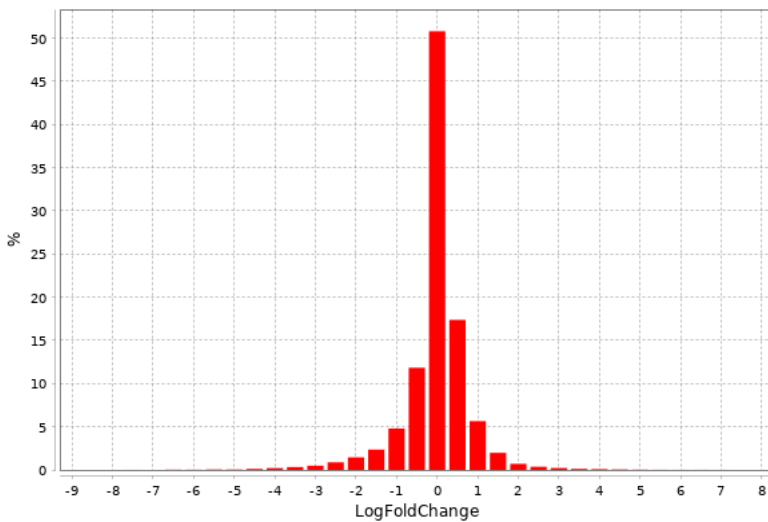
Experiment normalized: data/Examples/User Guide/Data/Examples of methods/Data normalization/Experiment normalized (RMA)

Control normalized: data/Examples/User Guide/Data/Examples of methods/Data normalization/Control normalized (RMA)

Species: Human (Homo sapiens)

Results folder: data/Examples/User Guide/Data/Examples of workflows/Common/Experiment normalized (RMA) (Differentially expressed genes Affy)

HISTOGRAM



UP-REGULATED GENES

In this study, 649 genes were identified as up-regulated, with Log Fold Change higher than 0.5 and p-value threshold 0.001

Folder: Upregulated Ensembl genes

Number of rows: 649

Statistical test: Student's t-test

Filter conditions: LogFoldChange>0.5 && _log_P_value_>3

Complete name: data/Examples/User Guide/Data/Examples of workflows/Common/Experiment normalized (RMA) (Differential...

Ensembl ID	Gene symbol	Gene descri
ENSG00000125820	NKX2-2	NK2 homeob
ENSG00000081277	PKP1	plakophilin 1
ENSG00000169297	NR0B1	nuclear recep member 1
ENSG00000173698	ADGRG2	adhesion G p
ENSG00000180447	GAS1	growth arrest
ENSG00000164647	STEAP1	STEAP family
ENSG00000135447	PPP1R1A	protein phosph subunit 1A
ENSG00000003137	CYP26B1	cytochrome P member 1
ENSG00000114251	WNT5A	Wnt family m
ENSG00000164128	NPY1R	neuropeptide
ENSG00000123689	G0S2	G0/G1 switch
ENSG00000150551	LYPD1	LY6/PLAUR dc
ENSG00000123610	TNFAIP6	TNF alpha inc
ENSG00000163686	ABHD6	abhydrolase c
ENSG00000127152	BCL11B	BAF complex
ENSG00000187094	CCK	cholecystokin
ENSG00000048540	LMO3	LIM domain c
ENSG00000145555	MYO10	myosin X
ENSG00000185052	SLC24A3	solute carrier
ENSG00000115738	ID2	inhibitor of D
ENSG00000130529	TRPM4	transient rec subfamily M r

ENSG00000180818	HOXC10	homeobox C1
ENSG00000166501	PRKCB	protein kinase C beta
ENSG00000142552	RCN3	reticulocalbin 3
ENSG00000105472	CLEC11A	C-type lectin domain family 11 member A
ENSG00000056998	GYG2	glycogenin 2
ENSG00000136110	CNMD	chondromodulin
ENSG00000020633	RUNX3	runt related transcription factor 3
ENSG00000134709	HOOK1	hook microtubule-associated protein 1
ENSG00000128713	HOXD11	homeobox D11
ENSG00000106069	AC004593.3,CHN2	chimerin 2
ENSG00000285162	AC004593.3,CHN2	chimerin 2
ENSG00000104870	FCGRT	Fc fragment crystallizable gamma chain transporter
ENSG00000105974	CAV1	caveolin 1
ENSG00000100749	VRK1	VRK serine/threonine kinase 1
ENSG00000138604	GLCE	glucuronic acid 6-O-sulfonated glucuronide reactive intermediate
ENSG00000132541	RIDA	reactive intermediate homolog
ENSG00000176049	JAKMIP2	janus kinase 2 interacting protein 2
ENSG00000117143	UAP1	UDP-N-acetylglucosamine 6-phosphate 4-epimerase
ENSG00000089127	OAS1	2'-5'-oligoadenylate synthetase 1
ENSG00000163629	PTPN13	non-receptor tyrosine phosphatase 13
ENSG00000182752	PAPPA	pappalysin 1
ENSG00000170312	CDK1	cyclin dependent kinase 2
ENSG00000002586	CD99	CD99 molecule
ENSG00000116106	EPHA4	EPH receptor A4
ENSG00000196083	IL1RAP	interleukin 1 receptor accessory protein
ENSG00000128710	HOXD10	homeobox D10
ENSG00000124782	RREB1	ras responsive element binding protein 1
ENSG00000089902	RCOR1	REST corepressor 1
ENSG00000169744	LDB2	LIM domain binding protein 2
ENSG00000110315	RNF141	ring finger protein 141
ENSG00000119537	KDSR	3-ketodihydroxyacyl-CoA synthase
ENSG00000128714	HOXD13	homeobox D13
ENSG00000164904	ALDH7A1,ALDH7A1P1	aldehyde dehydrogenase family 7 member A1 protein
ENSG00000251400	ALDH7A1,ALDH7A1P1	aldehyde dehydrogenase family 7 member A1 protein
ENSG00000203812	HIST2H2AA3,HIST2H2AA4	histone cluster 2, H2A type 3, variant 4
ENSG00000272196	HIST2H2AA3,HIST2H2AA4	histone cluster 2, H2A type 3, variant 4
ENSG00000134201	GSTM5	glutathione S-transferase mu 5
ENSG00000105971	CAV2	caveolin 2
ENSG00000140937	CDH11	cadherin 11
ENSG00000081803	CADPS2	calcium dependent protein secretory pathway 2
ENSG00000155850	SLC26A2	solute carrier family 26 member 2
ENSG00000178814	OPLAH	5-oxoprolinase
ENSG00000087077	TRIP6	thyroid hormone receptor interacting protein 6
ENSG00000196159	FAT4	FAT atypical cadherin 4
ENSG00000147027	TMEM47	transmembrane protein 47
ENSG00000162434	JAK1	Janus kinase 1
ENSG00000145604	SKP2	S-phase kinase 2
ENSG00000215375	MYL5	myosin light chain 5
ENSG00000197594	ENPP1	ectonucleotide pyrophosphatase 1
ENSG00000147162	OGT	O-linked N-acetylglucosamine transferase
ENSG00000188778	ADRB3	adrenoceptor beta 3
ENSG00000092621	PHGDH	phosphoglycerate dehydrogenase
ENSG00000134057	CCNB1	cyclin B1
ENSG00000185668	POU3F1	POU class 3 transcription factor 1
ENSG00000103202	NME4	NME/NM23 nuclear mitotic arrest protein 4
ENSG00000123200	ZC3H13	zinc finger CCCH domain containing 13
ENSG00000100526	CDKN3	cyclin dependent kinase inhibitor 3
ENSG00000163399	ATP1A1	ATPase Na ⁺ /K ⁺ transporting 1
ENSG00000050628	PTGER3	prostaglandin G/H/G synthase 3
ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor
ENSG00000090863	GLG1	golgi glycoprotein 1
ENSG00000166881	NEMP1	nuclear envelope protein 1
ENSG00000163812	ZDHHHC3	zinc finger DHHC domain containing 3
ENSG00000111144	LTA4H	leukotriene A4 hydroxylase
ENSG00000166575	TMEM135	transmembrane protein 135
ENSG00000165995	CACNB2	calcium voltage-gated channel auxiliary subunit beta 2

ENSG00000198730	CTR9	CTR9 homolo complex com
ENSG00000213145	AL928654.3,CRIP1	cysteine rich
ENSG00000257341	AL928654.3,CRIP1	cysteine rich
ENSG00000008118	CAMK1G	calcium/calm kinase IG
ENSG00000157240	FZD1	frizzled class
ENSG00000158373	HIST1H2BD	histone cluste
ENSG00000073792	IGF2BP2	insulin like gr protein 2
ENSG00000064490	RFXANK	regulatory fa containing pr
ENSG00000181163	AC007068.1,CLEC2D,NPM1,NPM1P27,NPM1P6	C-type lectin D,nucleophos phosphoprote
ENSG00000065150	IPO5	importin 5
ENSG00000109586	GALNT7	polypeptide N acetylgalacto
ENSG00000142856	ITGB3BP	integrin subu
ENSG00000114023	FAM162A	family with se member A
ENSG00000113810	SMC4	structural ma
ENSG00000143545	AC034102.1,RAB13	RAB13,RAB13 family pseudc family
ENSG00000237493	AC034102.1,RAB13	RAB13,RAB13 family pseudc family
ENSG00000163918	RFC4	replication fa
ENSG00000174804	FZD4	frizzled class
ENSG00000166801	FAM111A	family with se member A
ENSG00000106993	CDC37L1	cell division c
ENSG00000170004	CHD3	chromodoma protein 3
ENSG00000066044	ELAVL1	ELAV like RN/
ENSG00000117407	ARTN	artemin
ENSG00000135269	TES	testin LIM do
ENSG00000128050	PAICS,PAICSP4	phosphoribos carboxylase,γ carboxylase α
ENSG00000254244	PAICS,PAICSP4	phosphoribos carboxylase,γ carboxylase α
ENSG00000173145	NOC3L	NOC3 like DN
ENSG00000141837	CACNA1A	calcium volta alpha1 A
ENSG00000082515	MRPL22	mitochondria
ENSG00000114054	PCCB	propionyl-Co/
ENSG00000153048	CARHSP1	calcium regul
ENSG00000116679	IVNS1ABP	influenza viru
ENSG00000173473	SMARCC1	SWI/SNF rela regulator of c member 1,ma
ENSG00000169116	PARM1	prostate andr protein 1
ENSG00000113328	CCNG1	cyclin G1
ENSG00000083642	PDS5B	PDS5 cohesin
ENSG00000169047	IRS1	insulin recept
ENSG00000104888	SLC17A7	solute carrier
ENSG00000138768	USO1	USO1 vesicle
ENSG00000165806	CASP7	caspase 7
ENSG00000162733	DDR2	discoidin dom 2
ENSG00000138376	BARD1	BRCA1 associ
ENSG00000204410	MSH5,MSH5-SAPCD1	MSH5-SAPCD candidate),m
ENSG00000255152	MSH5,MSH5-SAPCD1	MSH5-SAPCD candidate),m
ENSG00000213626	LBH	limb bud and
ENSG00000196878	LAMB3	laminin subur
ENSG00000075914	EXOSC7	exosome corr
ENSG00000113368	LMNB1	lamin B1
ENSG00000182199	SHMT2	serine hydrox
ENSG00000104518	GSDMD	gasdermin D
ENSG00000139343	SNRPF	small nuclear polypeptide F
ENSG00000149328	GLB1L2	galactosidase
ENSG00000173141	MRPL57	mitochondria
ENSG00000127184	AC098934.3,COX7C,COX7CP1,KDM5B	7C,cytochrom pseudogene :
ENSG00000122257	RBBP6	RB binding pr
ENSG00000278893	AC010533.1	novel transcri
ENSG00000088035	ALG6	3-gluco-syltra
ENSG00000164022	AIMP1	aminoacyl tRI interacting m

ENSG00000171873	ADRA1D	adrenoceptor
ENSG00000163743	RCHY1	ring finger an containing 1
ENSG00000104889	RNASEH2A,THSD8	ribonuclease type 1 domai
ENSG00000284491	RNASEH2A,THSD8	ribonuclease type 1 domai
ENSG00000249353	AC007068.1,CLEC2D,NPM1,NPM1P27,NPM1P6	C-type lectin D,nucleophos phosphoprote
ENSG00000149485	FADS1	fatty acid des
ENSG00000105202	FBL	fibrillarin
ENSG00000132313	MRPL35	mitochondria
ENSG00000164402	SEPT8	septin 8
ENSG00000071564	TCF3	transcription
ENSG00000111145	ELK3	ELK3,ETS tra
ENSG00000184983	NDUFA6	NADH:ubiquin A6
ENSG00000111445	RFC5	replication fa
ENSG00000221914	PPP2R2A	protein phosph Balpha
ENSG00000075188	NUP37	nucleoporin 3
ENSG00000089157	AC026403.1,RPLP0,RPLP0P6	60S acidic rib pseudogene,r subunit P0,rit
ENSG00000213553	AC026403.1,RPLP0,RPLP0P6	60S acidic rib pseudogene,r subunit P0,rit
ENSG00000111331	OAS3	2'-5'-oligoade
ENSG00000123388	HOXC11	homeobox C1
ENSG00000179409	GEMIN4	gem nuclear
ENSG00000137880	GCHFR	GTP cyclohyd
ENSG00000163655	GMPS,GMPSP1	guanine mon monophosphi
ENSG00000250471	GMPS,GMPSP1	guanine mon monophosphi
ENSG00000196411	EPHB4	EPH receptor
ENSG00000178035	IMPDH2	inosine mono
ENSG00000112559	MDF1	MyoD family
ENSG00000050393	MCUR1	mitochondria 1
ENSG00000182180	MRPS16	mitochondria
ENSG00000198931	APRT	adenine phos
ENSG00000076003	MCM6	minichromos component 6
ENSG00000115486	GGCX	gamma-gluta
ENSG00000106268	NUDT1	nudix hydroly
ENSG00000124279	FASTKD3	FAST kinase (
ENSG00000182004	SNRPE,SNRPEP2,SNRPEP4	small nuclear polypeptide E ribonucleoprc pseudoge...
ENSG00000233270	SNRPE,SNRPEP2,SNRPEP4	small nuclear polypeptide E ribonucleoprc pseudoge...
ENSG00000256968	SNRPE,SNRPEP2,SNRPEP4	small nuclear polypeptide E ribonucleoprc pseudoge...
ENSG00000089820	ARHGAP4	Rho GTPase α
ENSG00000128626	MRPS12	mitochondria
ENSG00000112667	DNPH1	2'-deoxynuck hydrolase 1
ENSG00000234465	PINLYP	phospholipas domain conta
ENSG00000113522	AC116366.3,RAD50	RAD50 doubl protein,novel
ENSG00000283782	AC116366.3,RAD50	RAD50 doubl protein,novel
ENSG00000101868	POLA1	DNA polymer
ENSG00000196504	PRPF40A	pre-mRNA pr
ENSG00000138777	PPA2	pyrophosphat
ENSG00000142541	AC024940.3,RPL13A,RPL13AP20,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33,SNORD34,SNORD35A	C/D box 32A, box 35A,ribos protein L13a
ENSG00000200259	RPL13A,SNORD34,SNORD35A	C/D box 34,C L13a,small nu
ENSG00000202503	RPL13A,RPL13AP20,RPL13AP5,SNORD33,SNORD34,SNORD35A	C/D box 33,C 35A,ribosoma protein L13a
ENSG00000198874	TYW1,TYW1B	tRNA-yW syn homolog,tRN homolog B
ENSG00000277149	TYW1,TYW1B	tRNA-yW syn homolog,tRN homolog B
ENSG00000235581	AC005011.1	ribosomal prc

		pseudogene
ENSG00000099797	TECR,TECRP1	3-enoyl-CoA reductase pse
ENSG00000235043	TECR,TECRP1	3-enoyl-CoA reductase pse
ENSG00000039650	PNKP	polynucleotid
ENSG00000092036	AL132780.3,HAUS4	HAUS augmir protein
ENSG00000259132	AL132780.3,HAUS4	HAUS augmir protein
ENSG00000111581	NUP107	nucleoporin 1
ENSG00000173085	COQ2	coenzyme Q2
ENSG00000163938	GNL3	G protein nuc
ENSG00000115875	SRSF7	serine and ar
ENSG00000106355	LSM5	LSM5 homolo mRNA degra
ENSG00000182378	PLCXD1	phosphatidyli C X domain c
ENSG00000163923	RPL39L	ribosomal prc
ENSG00000128534	LSM8	LSM8 homolo associated
ENSG00000175606	TMEM70	transmembra
ENSG00000131089	ARHGEF9	Cdc42 guanin 9
ENSG00000156469	MTERF3	mitochondria factor 3
ENSG00000065883	CDK13	cyclin depend
ENSG00000173207	CKS1B,CKS1BP2,CKS1BP3	CDC28 protei 1B,CDC28 pr subunit 1B ps
ENSG00000225976	CKS1B,CKS1BP2,CKS1BP3	CDC28 protei 1B,CDC28 pr subunit 1B ps
ENSG00000268942	CKS1B,CKS1BP2,CKS1BP3	CDC28 protei 1B,CDC28 pr subunit 1B ps
ENSG00000187109	NAP1L1	nucleosome a
ENSG00000116157	GPX7	glutathione p
ENSG00000157911	PEX10	peroxisomal l
ENSG00000105372	RPS19	ribosomal prc
ENSG00000135390	ATP5MC2	ATP synthase
ENSG00000116649	SRM	spermidine sy
ENSG00000164134	NAA15	N(alpha)-acei auxiliary sub
ENSG00000076944	STXBP2	syntaxin bind
ENSG00000134333	AC084117.1,LDHA	lactate dehyd
ENSG00000256006	AC084117.1,LDHA	lactate dehyd
ENSG00000170606	HSPA4	heat shock pr member 4
ENSG00000105821	DNAJC2	DnaJ heat sh member C2
ENSG00000204228	HSD17B8	hydroxystero
ENSG00000063046	EIF4B,EIF4BP3,EIF4BP6,EIF4BP7	eukaryotic tra 4B,eukaryotic 4B pseudogen
ENSG00000197258	EIF4B,EIF4BP3,EIF4BP6,EIF4BP7	eukaryotic tra 4B,eukaryotic 4B pseudogen
ENSG00000224546	EIF4B,EIF4BP3,EIF4BP6,EIF4BP7	eukaryotic tra 4B,eukaryotic 4B pseudogen
ENSG00000225031	EIF4B,EIF4BP3,EIF4BP6,EIF4BP7	eukaryotic tra 4B,eukaryotic 4B pseudogen
ENSG00000239789	AC092647.5,MRPS17	mitochondria zinc finger pr mitochondria
ENSG00000249773	AC092647.5,MRPS17	mitochondria zinc finger pr mitochondria
ENSG00000118971	CCND2	cyclin D2
ENSG00000138653	NDST4	N-deacetylase
ENSG00000064102	INTS13	integrator cor
ENSG00000119285	HEATR1	HEAT repeat
ENSG00000001167	NFYA	nuclear trans
ENSG00000084093	REST	RE1 silencing
ENSG00000126756	UXT	ubiquitously e chaperone
ENSG00000099901	RANBP1	RAN binding p
ENSG00000140750	ARHGAP17	Rho GTPase a
ENSG00000104907	TRMT1	tRNA methylt
ENSG00000182899	RPL35A	ribosomal prc
ENSG00000180198	RCC1	regulator of c
ENSG00000104442	ARMC1	armadillo rep
ENSG00000104524	PYCR3	pyrroline-5-ci
ENSG00000058673	AL365217.1,ZBED6,ZC3H11A,ZC3H11B	zinc finger BE finger CCCH-H finger CCCH-H

ENSG00000214558	AL365217.1,ZBED6,ZC3H11A,ZC3H11B	zinc finger BE finger CCCH-1 finger CCCH-1
ENSG00000215817	AL365217.1,ZBED6,ZC3H11A,ZC3H11B	zinc finger BE finger CCCH-1 finger CCCH-1
ENSG00000257315	AL365217.1,ZBED6,ZC3H11A,ZC3H11B	zinc finger BE finger CCCH-1 finger CCCH-1
ENSG00000138750	NUP54	nucleoporin 5
ENSG00000053371	AKR7A2,RNU6-1099P	RNA,U6 smal reductase fan A2,pseudoge
ENSG00000196976	LAGE3	L antigen fan
ENSG00000175279	CENPS	centromere p
ENSG00000143771	CNIH4	cornichon fan protein 4
ENSG00000135372	NAT10	N-acetyltrans
ENSG00000214925	AC234778.1	ribosomal prc pseudogene
ENSG00000115657	ABCB6,AC068946.2	ATP binding c 6 (Langereis
ENSG00000284820	ABCB6,AC068946.2	ATP binding c 6 (Langereis
ENSG00000114491	UMPS	uridine mono
ENSG00000184445	KNTC1	kinetochore a
ENSG00000083223	TUT7	terminal uridy
ENSG00000116096	SPR	sepiapterin re
ENSG00000103365	GGA2	ARF binding p containing,go
ENSG00000166669	ATF7IP2	activating tra protein 2
ENSG00000100714	MTHFD1	cyclohydrolas synthetase 1, dehydrogena:
ENSG00000171843	MLLT3	MLLT3,super
ENSG00000130255	RPL36	ribosomal prc
ENSG0000014123	UFL1	UFM1 specific
ENSG00000167774	AC010323.1,NDUFA7	NADH:ubiquin A7,novel tran
ENSG00000267855	AC010323.1,NDUFA7	NADH:ubiquin A7,novel tran
ENSG00000105642	KCNN1	potassium ca subfamily N r
ENSG00000011304	PTBP1	polypyrimidin
ENSG00000130313	AC010618.1	6-phosphoglu
ENSG00000117139	AC098934.3,COX7C,COX7CP1,KDM5B	cytochrome c 7C,cytochrom pseudogene :
ENSG00000235449	AC098934.3,COX7C,COX7CP1,KDM5B	cytochrome c 7C,cytochrom pseudogene :
ENSG00000235957	AC098934.3,COX7C,COX7CP1,KDM5B	cytochrome c 7C,cytochrom pseudogene :
ENSG00000200403	AKR7A2,RNU6-1099P	RNA,U6 smal reductase fan A2,pseudoge
ENSG00000111605	CPSF6	cleavage and factor 6
ENSG00000196678	ERI2	ERI1 exoribor
ENSG00000147274	AL034397.1,AL354707.1,RBMX,RBMP2	Heterogenous pseudogene,f binding motif
ENSG00000215210	AL034397.1,AL354707.1,RBMX,RBMP2	Heterogenous pseudogene,f binding motif
ENSG00000217835	AL034397.1,AL354707.1,RBMX,RBMP2	Heterogenous pseudogene,f binding motif
ENSG00000225489	AL034397.1,AL354707.1,RBMX,RBMP2	Heterogenous pseudogene,f binding motif
ENSG00000060303	RPS17P5	ribosomal prc
ENSG00000143314	MRPL24	mitochondria
ENSG00000100567	PSMA3	proteasome s
ENSG00000174547	MRPL11	mitochondria
ENSG00000170855	TRIAP1	TP53 regulat
ENSG00000274290	HIST1H2BE	histone cluste
ENSG00000138382	METTL5	methyltransfe
ENSG00000106628	POLD2	DNA polymer
ENSG00000178802	MPI	mannose pho
ENSG00000038002	AGA	aspartylgluco
ENSG00000132967	HMGB1,HMGB1P5	high mobility group box 1 p
ENSG00000189403	HMGB1,HMGB1P5	high mobility group box 1 p
ENSG00000131652	THOC6	THO complex

ENSG00000153936	HS2ST1	heparan sulfa
ENSG00000005022	SLC25A5	solute carrier
ENSG00000126814	AL160236.1,HMG2P3,TRMT5	high mobility domain 2 (HM mobility grou
ENSG00000230330	AL160236.1,HMG2P3,TRMT5	high mobility domain 2 (HM mobility grou
ENSG00000258656	AL160236.1,HMG2P3,TRMT5	high mobility domain 2 (HM mobility grou
ENSG00000169371	AC105036.3,SNUPN	novel transcri
ENSG00000260269	AC105036.3,SNUPN	novel transcri
ENSG00000079246	XRCC5	X-ray repair c
ENSG00000078618	NRDC	nardilysin cor
ENSG00000129292	PHF20L1	PHD finger pr
ENSG00000106028	SSBP1	single strand
ENSG00000100890	AL121594.1,KIAA0391	KIAA0391,no
ENSG00000258790	AL121594.1,KIAA0391	KIAA0391,no
ENSG00000167085	PHB	prohibitin
ENSG00000113387	SUB1	SUB1 homolo
ENSG00000139239	RPL14,RPL14P1	ribosomal prc L14 pseudoge
ENSG00000188846	RPL14,RPL14P1	ribosomal prc L14 pseudoge
ENSG00000121644	DESI2	desumoylatin
ENSG00000121579	NAA50	N(alpha)-ace catalytic subu
ENSG00000156411	ATP5MPL	ATP synthase
ENSG00000077514	POLD3	DNA polymer
ENSG00000120333	MRPS14	mitochondria
ENSG00000204237	OXLD1	oxidoreducta
ENSG00000156467	UQCRB	ubiquinol-cyt protein
ENSG00000134291	TMEM106C	transmembra
ENSG00000110200	ANAPC15	anaphase pro
ENSG00000214706	IFRD2	interferon rel 2
ENSG00000113119	TMCO6	transmembra
ENSG00000086189	DIMT1	DIM1 dimeth homolog
ENSG00000186298	PPP1CC	protein phosph gamma
ENSG00000142676	RPL11	ribosomal prc
ENSG00000170144	HNRNPA3,HNRNPA3P1,HNRNPA3P10,HNRNPA3P3,HNRNPA3P5	heterogeneou A3,heterogen ribonucleoprc
ENSG00000214653	HNRNPA3,HNRNPA3P1,HNRNPA3P10,HNRNPA3P3,HNRNPA3P5	heterogeneou A3,heterogen ribonucleoprc
ENSG00000226790	HNRNPA3,HNRNPA3P1,HNRNPA3P10,HNRNPA3P3,HNRNPA3P5	heterogeneou A3,heterogen ribonucleoprc
ENSG00000236565	HNRNPA3,HNRNPA3P1,HNRNPA3P10,HNRNPA3P3,HNRNPA3P5	heterogeneou A3,heterogen ribonucleoprc
ENSG00000257851	HNRNPA3,HNRNPA3P1,HNRNPA3P10,HNRNPA3P3,HNRNPA3P5	heterogeneou A3,heterogen ribonucleoprc
ENSG00000114686	MRPL3	mitochondria
ENSG00000151702	FLI1	ETS transcrip oncogene
ENSG00000168090	COPS6	COP9 signalo
ENSG00000040275	SPDL1	spindle appar
ENSG00000125743	SNRPD2	small nuclear polypeptide
ENSG00000170860	LSM3	LSM3 homolo mRNA degrad
ENSG00000162704	ARPC5	actin related 5
ENSG00000118181	AC034236.1,RPS25	ribosomal prc S25 (RPS25)
ENSG00000185641	AC034236.1,RPS25	ribosomal prc S25 (RPS25)
ENSG00000100028	GGT1,SNRPD3	gamma-gluta nuclear ribon
ENSG00000286070	GGT1,SNRPD3	gamma-gluta nuclear ribon
ENSG00000123427	EEF1AKMT3	EEF1A lysine
ENSG00000165494	AP000873.4,PCF11	PCF11,cleava subunit,novel PCF11
ENSG00000254676	AP000873.4,PCF11	PCF11,cleava subunit,novel PCF11
ENSG00000143727	ACP1	acid phospho
ENSG00000158417	EIF5B	eukaryotic tra
ENSG00000105355	PLIN3	perilipin 3

ENSG00000183648	NDUFB1	NADH:ubiquin B1
ENSG00000087269	NOP14	NOP14 nucle
ENSG00000173992	CCS	copper chape dismutase
ENSG00000074621	SLC24A1	solute carrier
ENSG00000060642	PIGV	phosphatidyl biosynthesis
ENSG00000094916	CBX5,MIR3198-2	chromobox 5
ENSG00000283803	CBX5,MIR3198-2	chromobox 5
ENSG00000174606	ANGEL2	angel homolo
ENSG00000064545	TMEM161A	transmembra
ENSG00000147123	NDUFB11	NADH:ubiquin B11
ENSG00000170248	PDCD6IP	programmed protein
ENSG00000198000	NOL8	nucleolar pro
ENSG00000198604	BAZ1A	bromodomair domain 1A
ENSG00000170889	AC011495.1,RPS9	ribosomal pro (RPS9) pseuc
ENSG00000243829	AC011495.1,RPS9	ribosomal pro (RPS9) pseuc
ENSG00000241343	AC116533.1,RPL36A,RPL36A-HNRNPH2	RPL36A-HNRI protein L36a, (RPL36A) pse
ENSG00000244398	AC116533.1,RPL36A,RPL36A-HNRNPH2	RPL36A-HNRI protein L36a, (RPL36A) pse
ENSG00000257529	AC116533.1,RPL36A,RPL36A-HNRNPH2	RPL36A-HNRI protein L36a, (RPL36A) pse
ENSG00000114942	EEF1B2,EEF1B2P2,EEF1B2P3,EEF1B2P6	eukaryotic tra beta 2,eukary factor 1 beta
ENSG00000213261	EEF1B2,EEF1B2P2,EEF1B2P3,EEF1B2P6	eukaryotic tra beta 2,eukary factor 1 beta
ENSG00000213864	EEF1B2,EEF1B2P2,EEF1B2P3,EEF1B2P6	eukaryotic tra beta 2,eukary factor 1 beta
ENSG00000232472	EEF1B2,EEF1B2P2,EEF1B2P3,EEF1B2P6	eukaryotic tra beta 2,eukary factor 1 beta
ENSG00000231369	Z97353.1	ribosomal pro pseudogene
ENSG00000178605	GTPBP6	GTP binding p
ENSG00000178096	BOLA1	bola family m
ENSG00000198015	MRPL42	mitochondria
ENSG00000188529	SRSF10	serine and ar
ENSG00000148688	RPP30	ribonuclease
ENSG00000150394	CDH8	cadherin 8
ENSG00000088970	KIZ	kizuna centro
ENSG00000131844	MCCC2	methylcroton
ENSG00000204387	AL671762.1,C6orf48	chromosome 48,novel tran
ENSG00000285565	AL671762.1,C6orf48	chromosome 48,novel tran
ENSG00000137074	APTX,LAGE3P1	L antigen farr 1,aprataxin
ENSG00000225693	APTX,LAGE3P1	L antigen farr 1,aprataxin
ENSG00000178105	DDX10	DEAD-box he
ENSG00000163811	WDR43	WD repeat dc
ENSG00000081870	HSPB11	heat shock pr member 11
ENSG00000161981	SNRNP25	small nuclear subunit 25
ENSG00000128602	SMO	frizzled class
ENSG00000242110	AMACR,C1QTNF3-AMACR	C1QTNF3-AM candidate),al racemase
ENSG00000273294	AMACR,C1QTNF3-AMACR	C1QTNF3-AM candidate),al racemase
ENSG00000067704	IARS2	isoleucyl-tRN
ENSG00000093000	NUP50	nucleoporin 5
ENSG00000108424	KPNB1	karyopherin s
ENSG00000077312	SNRPA	small nuclear polypeptide A
ENSG00000242612	DECR2	2,4-dienoyl-C
ENSG00000198755	RPL10A,RPL10AP6	ribosomal pro L10a pseudoç
ENSG00000226360	RPL10A,RPL10AP6	ribosomal pro L10a pseudoç
ENSG00000083093	PALB2	partner and l
ENSG00000164818	DNAAF5	dynein axone
ENSG00000180879	SSR4	signal sequer

ENSG00000177192	PUS1	pseudouridine
ENSG00000116560	SFPQ	splicing facto
ENSG00000180817	PPA1	pyrophosphat
ENSG00000227969	NPM1P22	nucleophosm
ENSG00000105607	GCDH	glutaryl-CoA
ENSG00000138796	HADH	hydroxyacyl-(
ENSG00000115677	HDLBP	high density l
ENSG00000108384	RAD51C	RAD51 paralc
ENSG00000102393	GLA	galactosidase
ENSG00000168765	GSTM4	glutathione S
ENSG00000166855	CLPX	caseinolytic n peptidase cha
ENSG00000114391	RPL24,RPL24P2,RPL24P4,RPL24P8	ribosomal pro L24 pseudoge pseudogene 4
ENSG00000181524	RPL24,RPL24P4	ribosomal pro L24 pseudoge
ENSG00000166266	CUL5	cullin 5
ENSG00000129071	MBD4	DNA glycosyl domain 4
ENSG00000156709	AIFM1	apoptosis ind associated 1
ENSG00000183765	CHEK2	checkpoint ki
ENSG00000179091	CYC1	cytochrome c
ENSG00000229119	AC026403.1,RPLP0,RPLP0P6	60S acidic rib pseudogene,r subunit P0,rit
ENSG00000115163	CENPA	centromere p
ENSG00000107020	PLGRKT	plasminogen lysine
ENSG00000112996	MRPS30	mitochondria
ENSG00000115750	TAF1B	RNA polymer binding prote
ENSG00000144034	TPRKB	TP53RK bindi
ENSG00000004455	AK2,AL035411.1	adenylate kin (AK2) pseudc
ENSG00000185839	AK2,AL035411.1	adenylate kin (AK2) pseudc
ENSG00000092199	HNRNPC,HNRNPCP2	heterogeneou (C1/C2),hete ribonucleoprc
ENSG00000204253	HNRNPC,HNRNPCP2	heterogeneou (C1/C2),hete ribonucleoprc
ENSG00000100462	PRMT5	protein argini
ENSG00000120948	TARDBP	TAR DNA binc
ENSG00000153560	UBP1	upstream bin
ENSG00000111231	GPN3	GPN-loop GTF
ENSG00000074800	ENO1	enolase 1
ENSG00000067365	METTL22	methyltransfe
ENSG00000100353	EIF3D	eukaryotic tra subunit D
ENSG00000280099	AL603750.1	TEC
ENSG00000136450	AC015813.2,SRSF1	novel transcri splicing facto
ENSG00000266086	AC015813.2,SRSF1	novel transcri splicing facto
ENSG00000105323	HNRNPUL1	heterogeneou like 1
ENSG00000069493	AC007068.1,CLEC2D,NPM1,NPM1P27,NPM1P6	C-type lectin D,nucleophos phosphoprote
ENSG00000213443	AC007068.1,CLEC2D,NPM1,NPM1P27,NPM1P6	C-type lectin D,nucleophos phosphoprote
ENSG00000213881	AC007068.1,CLEC2D,NPM1,NPM1P27,NPM1P6	C-type lectin D,nucleophos phosphoprote
ENSG00000119041	GTF3C3	general trans
ENSG00000148985	PGAP2	post-GPI atta
ENSG00000074071	MRPS34	mitochondria
ENSG00000129295	LRRC6	leucine rich r
ENSG00000087302	RTRAF	RNA transcrip factor
ENSG00000101278	RPS10P5	ribosomal pro
ENSG00000136149	AC024940.3,RPL13A,RPL13AP20,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33	C/D box 32A, L13a,ribosom pseudogene,r
ENSG00000199631	AC024940.3,RPL13A,RPL13AP20,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33,SNORD34	C/D box 32A, 34,ribosomal protein L13a
ENSG00000234498	RPL13A,RPL13AP20,RPL13AP25,RPL13AP5,SNORD33,SNORD34	C/D box 33,C L13a,ribosom 20,ribosomal
ENSG00000236552	AC024940.3,RPL13A,RPL13AP20,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33,SNORD34	C/D box 32A, 34,ribosomal protein L13a
ENSG00000153107	AC083899.1,ANAPC1	anaphase pro

		1,anaphase p (ANAPC1) pse
ENSG00000204745	AC083899.1,ANAPC1	anaphase pro 1,anaphase p (ANAPC1) pse
ENSG00000149150	SLC43A1	solute carrier
ENSG00000108107	RPL28	ribosomal pro
ENSG00000106263	EIF3B	eukaryotic tra subunit B
ENSG00000140365	COMMD4	COMM domai
ENSG00000145741	BTF3	basic transcri
ENSG00000105053	VRK3	VRK serine/th
ENSG00000171490	RSL1D1	ribosomal L1
ENSG00000256269	HMBS	hydroxymeth
ENSG00000100442	FKBP3	FKBP prolyl is
ENSG00000162482	AKR7A3	aldo-keto red
ENSG00000165512	ZNF22	zinc finger pr
ENSG00000131828	PDHA1	pyruvate deh subunit
ENSG00000227077	AC018738.1,AC107983.1,RPS28,RPS28P7	ribosomal pro S28 (RPS28) protein S28 p
ENSG00000227097	AC018738.1,AC107983.1,RPS28,RPS28P7	ribosomal pro S28 (RPS28) protein S28 p
ENSG00000233927	AC018738.1,AC107983.1,RPS28,RPS28P7	ribosomal pro S28 (RPS28) protein S28 p
ENSG00000237039	AC018738.1,AC107983.1,RPS28,RPS28P7	ribosomal pro S28 (RPS28) protein S28 p
ENSG00000166704	ZNF606	zinc finger pr
ENSG00000105750	ZNF85	zinc finger pr
ENSG00000138182	KIF20B	kinesin family
ENSG00000175390	EIF3F,EIF3FP3	eukaryotic tra subunit F,euk factor 3 subu
ENSG00000233426	EIF3F,EIF3FP3	eukaryotic tra subunit F,euk factor 3 subu
ENSG00000071082	RPL31	ribosomal pro
ENSG00000100281	HMGXB4	HMG-box con
ENSG00000170515	PA2G4	proliferation-i
ENSG00000124767	GLO1	glyoxalase I
ENSG00000204536	CCHCR1	coiled-coil alp
ENSG00000138646	HERC5	HECT and RLI ubiquitin prot
ENSG00000136527	TRA2B	transformer 2
ENSG00000113048	MRPS27	mitochondria
ENSG00000143543	JTB	jumping trans
ENSG00000100142	POLR2F	RNA polymer
ENSG00000174748	AC092597.1,RPL15,RPL15P14,RPL15P2,RPL15P3	ribosomal pro L15 (RPL15) protein L15 p
ENSG00000212802	AC092597.1,RPL15,RPL15P14,RPL15P2,RPL15P3	ribosomal pro L15 (RPL15) protein L15 p
ENSG00000226701	AC092597.1,RPL15,RPL15P14,RPL15P2,RPL15P3	ribosomal pro L15 (RPL15) protein L15 p
ENSG00000240914	AC092597.1,RPL15,RPL15P14,RPL15P2,RPL15P3	ribosomal pro L15 (RPL15) protein L15 p
ENSG00000242262	AC092597.1,RPL15,RPL15P14,RPL15P2,RPL15P3	ribosomal pro L15 (RPL15) protein L15 p
ENSG00000154719	MRPL39	mitochondria
ENSG00000176102	CSTF3	cleavage stirr
ENSG00000124593	AL365205.1,TOMM6	novel transcri mitochondria
ENSG00000214736	AL365205.1,TOMM6	novel transcri mitochondria
ENSG00000272711	AC019069.1	novel transcri
ENSG00000171453	POLR1C	RNA polymer
ENSG00000105193	RPS16	ribosomal pro
ENSG00000134419	AC138811.2,RPS15A,RPS15AP1	novel protein S15a,ribosom 1
ENSG00000214535	AC138811.2,RPS15A,RPS15AP1	novel protein S15a,ribosom 1
ENSG00000260342	AC138811.2,RPS15A,RPS15AP1	novel protein S15a,ribosom 1
ENSG00000103227	LMF1	lipase mature
ENSG00000185651	AL158801.5,UBE2L3,UBE2L5	ubiquitin conj L3,ubiquitin c L5,ubiquitin-c

ENSG00000236444	AL158801.5,UBE2L3,UBE2L5	ubiquitin conj L3,ubiquitin c L5,ubiquitin-c
ENSG00000279392	AL158801.5,UBE2L3,UBE2L5	ubiquitin conj L3,ubiquitin c L5,ubiquitin-c
ENSG00000184857	TMEM186	transmembra
ENSG00000022976	ZNF839	zinc finger pr
ENSG00000196531	AC117378.1,NACA	nascent polyr subunit alpha
ENSG00000285625	AC117378.1,NACA	nascent polyr subunit alpha
ENSG00000235065	RPL24,RPL24P2,RPL24P8	ribosomal pro L24 pseudoge pseudogene f
ENSG00000236801	RPL24,RPL24P2,RPL24P8	ribosomal pro L24 pseudoge pseudogene f
ENSG00000063177	RPL18	ribosomal pro
ENSG00000277224	HIST1H2BF	histone cluste
ENSG00000201675	AC024940.3,RPL13A,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33	C/D box 32A, L13a,ribosom pseudogene,r
ENSG00000213885	AC024940.3,RPL13A,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33	C/D box 32A, L13a,ribosom pseudogene,r
ENSG00000234118	AC024940.3,RPL13A,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33	C/D box 32A, L13a,ribosom pseudogene,r
ENSG00000243517	AC024940.3,RPL13A,RPL13AP25,RPL13AP5,RPL13AP6,RPL13AP7,SNORD32A,SNORD33	C/D box 32A, L13a,ribosom pseudogene,r
ENSG00000165392	WRN	Werner syndr
ENSG00000165496	RPL10L	ribosomal pro
ENSG00000137818	AC016739.1,RPLP1	P1 (RPLP1) p: protein,ribosc subunit P1
ENSG00000218175	AC016739.1,RPLP1	P1 (RPLP1) p: protein,ribosc subunit P1
ENSG00000236810	ELOA-AS1	ELOA antisen
ENSG00000126767	ELK1	ELK1,ETS tra
ENSG00000214114	AL139260.3,MYCBP	MYC binding
ENSG00000274944	AL139260.3,MYCBP	MYC binding
ENSG00000130826	DKC1	dyskerin pseu
ENSG00000116977	LGALS8	galectin 8
ENSG00000089876	DHX32	DEAH-box he
ENSG00000103426	CORO7-PAM16,PAM16	CORO7-PAM1 translocase a
ENSG00000217930	CORO7-PAM16,PAM16	CORO7-PAM1 translocase a
ENSG00000142534	RPS11	ribosomal pro
ENSG00000121621	KIF18A	kinesin family
ENSG00000176293	ZNF135	zinc finger pr
ENSG00000058804	NDC1	NDC1 transm
ENSG00000114978	MOB1A	MOB kinase a
ENSG00000129084	AC018523.2,PSMA1	novel transcri 1
ENSG00000256206	AC018523.2,PSMA1	novel transcri 1
ENSG00000225912	AL121871.1,RPL26P37	ribosomal pro pseudogene,r pseudogene :
ENSG00000235175	AL121871.1,RPL26P37	ribosomal pro pseudogene,r pseudogene :
ENSG00000185480	PARBPB	PARP1 bindin
ENSG00000110696	AL109766.1,C11orf58	chromosome 58,chromosom (C11orf58) p:
ENSG00000259137	AL109766.1,C11orf58	chromosome 58,chromosom (C11orf58) p:
ENSG00000116906	GNPAT	glyceronepho
ENSG00000120889	TNFRSF10B	TNF receptor
ENSG00000187837	HIST1H1C	histone cluste
ENSG00000117543	DPH5	diphthamide
ENSG00000061676	NCKAP1	NCK associati
ENSG00000051825	MPHOSPH9	M-phase phos
ENSG00000096401	CDC5L	cell division c
ENSG00000101017	CD40	CD40 molecu
ENSG00000177600	RPLP2	ribosomal pro
ENSG00000174572	RPL10P2	ribosomal pro
ENSG00000125459	MSTO1,MSTO2P	misato family mitochondria
ENSG00000203761	MSTO1,MSTO2P	regulator 1,p: misato family mitochondria

ENSG0000038274	MAT2B	regulator 1, p methionine a
ENSG00000123545	NDUFAF4	NADH:ubiquir assembly fac
ENSG00000156482	RPL30	ribosomal prc
ENSG00000171863	RPS7,RPS7P1,RPS7P11	ribosomal prc pseudogene : pseudogene :
ENSG00000213326	RPS7,RPS7P1,RPS7P11	ribosomal prc pseudogene : pseudogene :
ENSG00000263266	RPS7,RPS7P1,RPS7P11	ribosomal prc pseudogene : pseudogene :
ENSG00000118655	DCLRE1B	DNA cross-lin
ENSG00000119684	MLH3	mutL homolo
ENSG00000117748	RPA2	replication pr
ENSG00000144426	NBEAL1,RPL12,RPL12P16,RPL12P4	neurobeachin L12,ribosoma 16,ribosomal
ENSG00000185834	NBEAL1,RPL12,RPL12P16,RPL12P4	neurobeachin L12,ribosoma 16,ribosomal
ENSG00000197958	NBEAL1,RPL12,RPL12P16,RPL12P4	neurobeachin L12,ribosoma 16,ribosomal
ENSG00000204196	NBEAL1,RPL12,RPL12P16,RPL12P4	neurobeachin L12,ribosoma 16,ribosomal
ENSG00000125691	RPL23,SNORA21	H/ACA box 2: nucleolar RN/
ENSG00000199293	RPL23,SNORA21	H/ACA box 2: nucleolar RN/
ENSG00000137970	RPL7,RPL7P1,RPL7P23,RPL7P47,RPL7P6,RPL7P9	ribosomal prc pseudogene : pseudogene 2
ENSG00000147604	RPL7,RPL7P1,RPL7P23,RPL7P47,RPL7P6,RPL7P9	ribosomal prc pseudogene : pseudogene 2
ENSG00000214485	RPL7,RPL7P1,RPL7P23,RPL7P47,RPL7P6,RPL7P9	ribosomal prc pseudogene : pseudogene 2
ENSG00000227525	RPL7,RPL7P1,RPL7P23,RPL7P47,RPL7P6,RPL7P9	ribosomal prc pseudogene : pseudogene 2
ENSG00000228071	RPL7,RPL7P1,RPL7P23,RPL7P47,RPL7P6,RPL7P9	ribosomal prc pseudogene : pseudogene 2
ENSG00000244363	RPL7,RPL7P1,RPL7P23,RPL7P47,RPL7P6,RPL7P9	ribosomal prc pseudogene : pseudogene 2
ENSG00000127423	AUNIP	aurora kinase protein
ENSG00000140025	EFCAB11	EF-hand calci
ENSG00000214367	HAUS3	HAUS augmir
ENSG00000242125	SNHG3	small nucleoli
ENSG00000145425	RPS3A,RPS3AP26,RPS3AP5,RPS3AP6	ribosomal prc S3A pseudog pseudogene (
ENSG00000178429	RPS3A,RPS3AP26,RPS3AP5,RPS3AP6	ribosomal prc S3A pseudog pseudogene (
ENSG00000214389	RPS3A,RPS3AP26,RPS3AP5,RPS3AP6	ribosomal prc S3A pseudog pseudogene (
ENSG00000234797	RPS3A,RPS3AP26,RPS3AP5,RPS3AP6	ribosomal prc S3A pseudog pseudogene (
ENSG00000221963	APOL6	apolipoprotei
ENSG00000145592	RPL37	ribosomal prc
ENSG00000152926	ZNF117	zinc finger pr
ENSG00000278588	HIST1H2BI	histone cluste
ENSG00000089682	RBM41	RNA binding i
ENSG00000112365	ZBTB24	zinc finger an
ENSG00000115053	NCL,SNORA75	H/ACA box 7: RNA
ENSG00000206885	NCL,SNORA75	H/ACA box 7: RNA
ENSG00000115268	AC007969.1,RPS15	ribosomal prc S15 (RPS15)
ENSG00000233762	AC007969.1,RPS15	ribosomal prc S15 (RPS15)
ENSG00000103423	DNAJA3	DnaJ heat sh member A3
ENSG00000177954	AC005912.1,AC099336.2,AC099560.2,RPS27	ribosomal prc S27 (RPS27) protein S27 (
ENSG00000227081	AC005912.1,AC099336.2,AC099560.2,RPS27	ribosomal prc S27 (RPS27) protein S27 (

ENSG00000234287	AC005912.1,AC099336.2,AC099560.2,RPS27	ribosomal pr S27 (RPS27) protein S27 (
ENSG00000236439	AC005912.1,AC099336.2,AC099560.2,RPS27	ribosomal pr S27 (RPS27) protein S27 (
ENSG00000177791	MYOZ1	myozenin 1
ENSG00000169131	ZNF354A	zinc finger pr
ENSG00000152464	RPP38	ribonuclease
ENSG00000172731	LRRC20	leucine rich r
ENSG00000083635	NUFIP1,NUFIP1P	FMR1 interact pseudogene,f interacting pr
ENSG00000218890	NUFIP1,NUFIP1P	FMR1 interact pseudogene,f interacting pr
ENSG00000155868	MED7	mediator com
ENSG00000010704	HFE	homeostatic i
ENSG00000164823	OSGIN2	oxidative stre family memb
ENSG00000176407	KCMF1	potassium ch
ENSG00000198242	RPL23A,RPL23AP2,RPL23AP42,RPL23AP65,RPL23AP74	ribosomal pr L23a pseudo L23a pseudo
ENSG00000225067	RPL23A,RPL23AP2,RPL23AP42,RPL23AP65,RPL23AP74	ribosomal pr L23a pseudo L23a pseudo
ENSG00000227694	RPL23A,RPL23AP2,RPL23AP42,RPL23AP65,RPL23AP74	ribosomal pr L23a pseudo L23a pseudo
ENSG00000234851	RPL23A,RPL23AP2,RPL23AP42,RPL23AP65,RPL23AP74	ribosomal pr L23a pseudo L23a pseudo
ENSG00000243964	RPL23A,RPL23AP2,RPL23AP42,RPL23AP65,RPL23AP74	ribosomal pr L23a pseudo L23a pseudo
ENSG00000062725	APPBP2	amyloid beta protein 2
ENSG00000168028	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000183298	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000202363	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000213621	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000225178	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000234618	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000237506	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000240087	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000242735	RPSA,RPSAP12,RPSAP15,RPSAP19,RPSAP26,RPSAP54,RPSAP58,RPSAP9,SNORA62	H/ACA box 6; SA,ribosomal 12,ribosomal
ENSG00000106682	EIF4H	eukaryotic tra
ENSG00000117620	SLC35A3	solute carrier
ENSG00000090447	TFAP4	transcription
ENSG00000249115	HAUS5	HAUS augmir
ENSG00000175054	ATR	ATR serine/th
ENSG00000196419	XRCC6	X-ray repair c
ENSG00000182165	TP53TG1	TP53 target 1
ENSG00000116459	ATP5PB	ATP synthase subunit b
ENSG00000168288	MMADHC	metabolism o
ENSG00000278828	HIST1H3H	histone cluste
ENSG00000148730	EIF4EBP2	eukaryotic tra binding prote
ENSG00000140299	BNIP2	BCL2 interact
ENSG00000102098	SCML2	Scm polycom
ENSG00000197822	OCLN,OCLNP1	OCLN pseudo
ENSG00000230847	OCLN,OCLNP1	OCLN pseudo
ENSG00000164587	RPS14	ribosomal pr
ENSG00000198918	RPL39,RPL39P3,SNORA69	H/ACA box 6; L39,ribosoma 3,small nucle
ENSG00000206622	RPL39,RPL39P3,SNORA69	H/ACA box 6; L39,ribosoma 3,small nucle

ENSG00000162227 TAF6L

TATA-box bindi

6 like

ENSG00000089356 AC020907.6,FXYP3

FXYP domain

regulator 3,n

ENSG00000285526 AC020907.6,FXYP3

FXYP domain

regulator 3,n

DOWN-REGULATED GENES

In this study, 440 genes were identified as down-regulated, with absolute Log Fold Change lower than -0.5 and p-value threshold 0.001

Folder: Downregulated Ensembl genes**Number of rows:** 440**Statistical test:** Student's t-test**Filter conditions:** LogFoldChange<-0.5 && _log_P_value_<-3**Complete name:** data/Examples/User Guide/Data/Examples of workflows/Common/Experiment normalized (RMA) (Differential...

Ensembl ID	Gene symbol	Gene description	-log(P-value)	LogFoldChange
ENSG00000185559	DLK1	delta like non-canonical Notch ligand 1	-4.9323	-7.5950
ENSG00000139970	RTN1	reticulon 1	-6.4807	-6.6945
ENSG00000180176	TH	tyrosine hydroxylase	-5.5031	-6.6885
ENSG00000087460	GNAS	GNAS complex locus	-6.2701	-6.5322
ENSG00000172020	GAP43	growth associated protein 43	-8.3603	-6.4375
ENSG00000181541	MAB21L2	mab-21 like 2	-3.3432	-6.4233
ENSG00000123454	DBH	dopamine beta-hydroxylase	-4.7791	-6.2453
ENSG00000089199	CHGB	chromogranin B	-4.4796	-6.2114
ENSG00000109132	PHOX2B	paired like homeobox 2B	-4.9509	-6.2026
ENSG00000080644	CHRNA3	cholinergic receptor nicotinic alpha 3 subunit	-5.0455	-6.0888
ENSG00000149294	NCAM1	neural cell adhesion molecule 1	-6.0402	-5.9322
ENSG00000168280	KIF5C	kinesin family member 5C	-5.3648	-5.7140
ENSG00000132437	DDC	dopa decarboxylase	-4.4185	-5.6674
ENSG00000180660	MAB21L1	mab-21 like 1	-3.9922	-5.5246
ENSG00000135406	PRPH	peripherin	-4.9778	-5.5232
ENSG00000069482	GAL	galanin and GMAP prepropeptide	-5.0237	-5.5040
ENSG00000136842	TMOD1	tropomodulin 1	-4.6986	-5.4532
ENSG00000133083	DCLK1	doublecortin like kinase 1	-5.9759	-5.3133
ENSG00000277586	MIR6841,NEFL	microRNA 6841,neurofilament light	-6.8411	-5.3029
ENSG00000283327	MIR6841,NEFL	microRNA 6841,neurofilament light	-6.8411	-5.3029
ENSG00000103034	NDRG4	NDRG family member 4	-7.4488	-5.3014
ENSG00000237125	HAND2-AS1	HAND2 antisense RNA 1	-4.1699	-5.2804
ENSG00000272398	CD24,CD24P2,CD24P4	CD24 molecule,CD24 molecule pseudogene 2,CD24 molecule pseudogene 4	-4.2719	-5.0317
ENSG00000166922	SCG5	secretogranin V	-5.1468	-4.9635
ENSG00000107485	GATA3	GATA binding protein 3	-3.8403	-4.8959
ENSG00000162374	ELAVL4	ELAV like RNA binding protein 4	-4.4506	-4.8357
ENSG00000143153	ATP1B1	ATPase Na ⁺ /K ⁺ transporting subunit beta 1	-5.4485	-4.7688
ENSG00000120885	CLU	clusterin	-4.2239	-4.6209
ENSG00000198910	L1CAM	L1 cell adhesion molecule	-4.7648	-4.6185
ENSG00000130294	KIF1A	kinesin family member 1A	-6.4497	-4.6146
ENSG00000117016	RIMS3	regulating synaptic membrane exocytosis 3	-3.5844	-4.6046
ENSG00000153253	SCN3A	sodium voltage-gated channel alpha subunit 3	-3.7254	-4.5546
ENSG00000145362	ANK2	ankyrin 2	-6.1511	-4.5328
ENSG00000165462	PHOX2A	paired like homeobox 2A	-3.0200	-4.5323
ENSG00000087258	GNAO1	G protein subunit alpha o1	-4.4598	-4.4613
ENSG00000131711	MAP1B	microtubule associated protein 1B	-5.5169	-4.4395
ENSG00000135472	FAIM2	Fas apoptotic inhibitory molecule 2	-6.4543	-4.4219
ENSG00000106772	PRUNE2	prune homolog 2 with BCH domain	-6.0788	-4.4151
ENSG00000109099	PMP22	peripheral myelin protein 22	-3.8574	-4.3411
ENSG00000104435	STMN2	stathmin 2	-3.3032	-4.2943
ENSG00000082397	EPB41L3	erythrocyte membrane protein band 4.1 like 3	-5.6416	-4.2862
ENSG00000117152	RGS4	regulator of G protein signaling 4	-4.6014	-4.2800
ENSG00000065609	SNAP91	synaptosome associated protein 91	-4.6076	-4.1988
ENSG00000162188	GNP3	G protein subunit gamma 3	-4.2033	-4.1786
ENSG00000132718	SYT11	synaptotagmin 11	-6.0029	-4.1703
ENSG00000170091	NSG2	neuronal vesicle trafficking associated 2	-4.1273	-4.1632
ENSG00000088367	EPB41L1	erythrocyte membrane protein band 4.1 like 1	-5.2295	-4.1571
ENSG00000132359	RAP1GAP2	RAP1 GTPase activating protein 2	-4.3366	-4.1475
ENSG00000145335	SNCA	synuclein alpha	-3.5381	-4.1286
ENSG00000144834	TAGLN3	transgelin 3	-4.0601	-4.1058
ENSG00000185275	CD24,CD24P2,CD24P4	CD24 molecule,CD24 molecule pseudogene 2,CD24 molecule pseudogene 4	-3.7045	-4.0936
ENSG00000261333	CD24,CD24P2,CD24P4	CD24 molecule,CD24 molecule pseudogene 2,CD24 molecule pseudogene 4	-3.7045	-4.0936
ENSG00000260230	FRRS1L	ferric chelate reductase 1 like	-4.9061	-4.0838
ENSG00000163032	VSNL1	visinin like 1	-5.4007	-4.0670
ENSG00000100604	CHGA	chromogranin A	-3.0446	-4.0123
ENSG00000058404	CAMK2B	calcium/calmodulin dependent protein kinase II beta	-4.3330	-4.0051
ENSG00000104332	SFRP1	secreted frizzled related protein 1	-4.6137	-3.9818
ENSG00000135596	MICAL1	calponin and LIM domain containing 1,microtubule associated monooxygenase	-4.4881	-3.9674
ENSG00000184226	PCDH9	protocadherin 9	-4.2956	-3.8302

ENSG00000107742	SPOCK2	SPARC (osteonectin),cwcv and kazal like domains proteoglycan 2	-6.9343	-3.8181
ENSG00000147642	SYBU	syntabulin	-5.6147	-3.8034
ENSG00000003147	ICA1	islet cell autoantigen 1	-3.3209	-3.7926
ENSG00000151914	DST	dystonin	-4.4364	-3.7801
ENSG00000154917	RAB6B	RAB6B,member RAS oncogene family	-4.3314	-3.7751
ENSG00000127561	SYNGR3	synaptogyrin 3	-5.2749	-3.7751
ENSG00000213760	ATP6V1G2	ATPase H+ transporting V1 subunit G2	-4.0141	-3.7697
ENSG00000106829	AL353813.1,TLE4	TLE family member 4,novel pseudogene (BCE-1),transcriptional corepressor	-5.2353	-3.7628
ENSG00000240979	AL353813.1,TLE4	TLE family member 4,novel pseudogene (BCE-1),transcriptional corepressor	-5.2353	-3.7628
ENSG00000214548	MEG3	maternally expressed 3	-3.5275	-3.7324
ENSG00000156298	TSPAN7	tetraspanin 7	-4.9914	-3.7245
ENSG00000113657	DPYSL3	dihydropyrimidinase like 3	-3.3876	-3.7134
ENSG00000171735	CAMTA1	calmodulin binding transcription activator 1	-3.9828	-3.7056
ENSG00000131378	RFTN1	lipid raft linker 1,raftlin	-6.3877	-3.7054
ENSG00000073910	FRY	FRY microtubule binding protein	-5.5650	-3.6863
ENSG00000066032	CTNNA2	catenin alpha 2	-6.0207	-3.6713
ENSG00000154556	SORBS2	sorbin and SH3 domain containing 2	-6.1247	-3.6686
ENSG00000105409	AC010616.2,ATP1A3	ATP1A3-RABAC1 readthrough,ATPase Na+/K+ transporting subunit alpha 3,novel protein	-4.1571	-3.6379
ENSG00000285505	AC010616.2,ATP1A3	ATP1A3-RABAC1 readthrough,ATPase Na+/K+ transporting subunit alpha 3,novel protein	-4.1571	-3.6379
ENSG00000167081	PBX3	PBX homeobox 3	-4.3753	-3.6101
ENSG00000110076	NRXN2	neurexin 2	-4.3067	-3.5930
ENSG00000026508	CD44	CD44 molecule (Indian blood group)	-3.2622	-3.5914
ENSG00000130226	DPP6	dipeptidyl peptidase like 6	-3.0280	-3.5860
ENSG00000134775	FHOD3	formin homology 2 domain containing 3	-4.8017	-3.5795
ENSG00000166664	CHRFAM7A,CHRNA7	CHRNA7 (exons 5-10) and FAM7A (exons A-E) fusion,cholinergic receptor nicotinic alpha 7 subunit	-4.5089	-3.5752
ENSG00000175344	CHRFAM7A,CHRNA7	CHRNA7 (exons 5-10) and FAM7A (exons A-E) fusion,cholinergic receptor nicotinic alpha 7 subunit	-4.5089	-3.5752
ENSG00000155093	PTPRN2	protein tyrosine phosphatase,receptor type N2	-5.2374	-3.5671
ENSG00000033327	GAB2	GRB2 associated binding protein 2	-5.6667	-3.5623
ENSG00000136854	STXBP1	syntaxin binding protein 1	-4.9607	-3.5470
ENSG00000091129	NRCAM	neuronal cell adhesion molecule	-3.3950	-3.5340
ENSG00000105255	FSD1	fibronectin type III and SPRY domain containing 1	-3.0033	-3.5239
ENSG00000186487	MYT1L	myelin transcription factor 1 like	-3.1381	-3.5069
ENSG00000178233	TMEM151B	transmembrane protein 151B	-4.0168	-3.4794
ENSG00000137285	AC092143.1,TUBB2A,TUBB2B,TUBB2BP1,TUBB3,TUBB4A	novel protein (MC1R-TUBB3 readthrough),tubulin beta 2A class IIa,tubulin beta 2B class IIb,tubulin b...	-3.2997	-3.4022
ENSG00000119782	FKBP1B	FKBP prolyl isomerase 1B	-3.2199	-3.3971
ENSG00000116675	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6	-3.8259	-3.3929
ENSG00000143340	FAM163A	family with sequence similarity 163 member A	-3.6433	-3.3383
ENSG00000152377	SPOCK1	SPARC (osteonectin),cwcv and kazal like domains proteoglycan 1	-3.5198	-3.3337
ENSG00000172915	NBEA	neurobeachin	-4.4411	-3.3326
ENSG00000136193	SCRN1	secernin 1	-4.0316	-3.3261
ENSG00000188042	ARL4C	ADP ribosylation factor like GTPase 4C	-3.6876	-3.2794
ENSG00000129422	MTUS1	microtubule associated scaffold protein 1	-3.7209	-3.2757
ENSG00000133878	DUSP26	dual specificity phosphatase 26	-3.1969	-3.2695
ENSG00000118263	KLF7	Kruppel like factor 7	-5.5356	-3.2641
ENSG00000095203	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B	-4.3711	-3.2573
ENSG00000165152	TMEM246	transmembrane protein 246	-4.5238	-3.2535
ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40	-3.2585	-3.2413
ENSG00000156299	TIAM1	T cell lymphoma invasion and metastasis 1	-4.0020	-3.2376
ENSG00000168502	MTCL1	microtubule crosslinking factor 1	-3.1965	-3.2331
ENSG00000106976	DNM1	dynamin 1	-4.6800	-3.2285
ENSG00000010278	CD9	CD9 molecule	-4.7249	-3.2232
ENSG00000005108	THSD7A	thrombospondin type 1 domain containing 7A	-5.1532	-3.2113
ENSG00000152127	MGAT5	6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase,alpha-1	-3.9586	-3.1956
ENSG00000137267	AC092143.1,TUBB2A,TUBB2B,TUBB2BP1,TUBB3,TUBB4A	novel protein (MC1R-TUBB3 readthrough),tubulin beta 2A class IIa,tubulin beta 2B class IIb,tubulin b...	-3.2997	-3.1901
ENSG00000216819	TUBB2A,TUBB2B,TUBB2BP1	tubulin beta 2A class IIa,tubulin beta 2B class IIb,tubulin beta 2B class IIb pseudogene 1	-3.1958	-3.1901
ENSG00000151967	IQCJ-SCHIP1,SCHIP1	IQCJ-SCHIP1 readthrough,schwannomin interacting protein 1	-4.3923	-3.1634
ENSG00000283154	IQCJ-SCHIP1,SCHIP1	IQCJ-SCHIP1 readthrough,schwannomin interacting protein 1	-4.3923	-3.1634
ENSG00000091972	CD200	CD200 molecule	-5.3830	-3.1513
ENSG00000050165	DKK3	dickkopf WNT signaling pathway inhibitor 3	-3.7683	-3.1335
ENSG00000115266	APC2	APC2,WNT signaling pathway regulator	-4.4282	-3.1028
ENSG00000213190	MLLT11	MLLT11,transcription factor 7 cofactor	-3.4090	-3.0842
ENSG00000103647	CORO2B	coronin 2B	-4.9824	-3.0816
ENSG00000131016	AKAP12	A-kinase anchoring protein 12	-3.6176	-3.0719
ENSG00000166974	MAPRE2	microtubule associated protein RP/EB family member 2	-7.7896	-3.0642

ENSG00000137642	SORL1	sortilin related receptor 1	-4.2985	-3.0610
ENSG00000117020	AKT3	AKT serine/threonine kinase 3	-5.4552	-3.0338
ENSG00000136274	NACAD	NAC alpha domain containing	-4.6264	-3.0279
ENSG00000218336	TENM3	teneurin transmembrane protein 3	-5.0995	-3.0204
ENSG00000100095	SEZ6L	seizure related 6 homolog like	-3.0502	-3.0142
ENSG00000138162	TACC2	transforming acidic coiled-coil containing protein 2	-3.2841	-3.0126
ENSG00000137726	FXVD6	FXVD domain containing ion transport regulator 6	-3.4608	-3.0058
ENSG00000168824	NSG1	neuronal vesicle trafficking associated 1	-3.5841	-2.9952
ENSG00000126217	MCF2L	MCF.2 cell line derived transforming sequence like	-3.1928	-2.9946
ENSG00000076344	RGS11	regulator of G protein signaling 11	-7.5260	-2.9618
ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase	-4.0073	-2.9448
ENSG00000105784	RUNDC3B	RUN domain containing 3B	-3.0467	-2.9371
ENSG00000099250	NRP1	neuropilin 1	-3.6447	-2.9202
ENSG00000102935	ZNF423	zinc finger protein 423	-3.0030	-2.9104
ENSG00000182253	SYNM	synemin	-4.2768	-2.8823
ENSG00000187764	SEMA4D	semaphorin 4D	-5.6392	-2.8531
ENSG00000277443	MARCKS	myristoylated alanine rich protein kinase C substrate	-4.9286	-2.8459
ENSG00000104722	NEFM	neurofilament medium	-3.1655	-2.8339
ENSG00000170558	CDH2	cadherin 2	-6.2963	-2.8335
ENSG00000090097	PCBP4	poly(rC) binding protein 4	-4.9485	-2.8175
ENSG00000103528	SYT17	synaptotagmin 17	-3.8304	-2.8160
ENSG00000154277	UCHL1	ubiquitin C-terminal hydrolase L1	-3.8918	-2.8052
ENSG00000196220	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	-3.0803	-2.7866
ENSG00000078053	AMPH	amphiphysin	-5.0051	-2.7797
ENSG00000184545	DUSP8	dual specificity phosphatase 8	-4.6131	-2.7724
ENSG00000010810	FYN	FYN proto-oncogene,Src family tyrosine kinase	-3.7947	-2.7685
ENSG00000170873	MTSS1	I-BAR domain containing,MTSS1	-5.4499	-2.7676
ENSG00000018189	RUFY3	RUN and FYVE domain containing 3	-3.2278	-2.7602
ENSG00000010404	AC244197.3,IDS	iduronate 2-sulfatase,novel protein	-4.9025	-2.7558
ENSG00000241489	AC244197.3,IDS	iduronate 2-sulfatase,novel protein	-4.9025	-2.7558
ENSG00000165646	SLC18A2	solute carrier family 18 member A2	-3.5490	-2.7552
ENSG00000130643	CALY	calcyon neuron specific vesicular protein	-3.2506	-2.7543
ENSG00000136040	PLXNC1	plexin C1	-4.2852	-2.7483
ENSG00000128512	DOCK4	dedicator of cytokinesis 4	-3.1001	-2.7468
ENSG00000130540	SULT4A1	sulfotransferase family 4A member 1	-4.1514	-2.7033
ENSG00000078114	NEBL	nebullette	-4.4484	-2.7021
ENSG00000104490	NCALD	neurocalcin delta	-5.0013	-2.6867
ENSG00000198211	AC092143.1,TUBB2A,TUBB2B,TUBB3,TUBB4A	novel protein (MC1R-TUBB3 readthrough),tubulin beta 2A class IIa,tubulin beta 2B class IIb,tubulin b...	-3.2997	-2.6841
ENSG00000258947	AC092143.1,TUBB2A,TUBB2B,TUBB3,TUBB4A	novel protein (MC1R-TUBB3 readthrough),tubulin beta 2A class IIa,tubulin beta 2B class IIb,tubulin b...	-3.2997	-2.6841
ENSG00000114554	PLXNA1	plexin A1	-3.0592	-2.6780
ENSG00000109472	CPE	carboxypeptidase E	-4.7982	-2.6601
ENSG00000148516	ZEB1	zinc finger E-box binding homeobox 1	-3.5089	-2.6477
ENSG00000090104	RGS1	regulator of G protein signaling 1	-3.0750	-2.6427
ENSG00000148219	ASTN2	astrotactin 2	-3.2531	-2.6335
ENSG00000198846	TOX	thymocyte selection associated high mobility group box	-3.2803	-2.6266
ENSG00000157064	NMNAT2	nicotinamide nucleotide adenylyltransferase 2	-3.1640	-2.6155
ENSG00000106070	GRB10	growth factor receptor bound protein 10	-7.3196	-2.6142
ENSG00000151689	INPP1	inositol polyphosphate-1-phosphatase	-6.0517	-2.5929
ENSG00000104833	AC092143.1,TUBB2A,TUBB2B,TUBB3,TUBB4A	novel protein (MC1R-TUBB3 readthrough),tubulin beta 2A class IIa,tubulin beta 2B class IIb,tubulin b...	-3.2997	-2.5889
ENSG00000171914	TLN2	taln 2	-3.1632	-2.5883
ENSG00000197959	DNM3	dynamn 3	-3.3912	-2.5798
ENSG00000183570	PCBP3	poly(rC) binding protein 3	-3.1292	-2.5729
ENSG00000139514	SLC7A1	solute carrier family 7 member 1	-4.3676	-2.5209
ENSG00000134030	CTIF	cap binding complex dependent translation initiation factor	-4.0693	-2.5209
ENSG00000163531	NFASC	neurofascin	-4.7453	-2.5002
ENSG00000186310	NAP1L3	nucleosome assembly protein 1 like 3	-3.1005	-2.4841
ENSG00000117600	PLPPR4	phospholipid phosphatase related 4	-4.8072	-2.4794
ENSG00000144642	RBMS3	RNA binding motif single stranded interacting protein 3	-5.3404	-2.4780
ENSG00000038382	TRIO	trio Rho guanine nucleotide exchange factor	-4.0690	-2.4778
ENSG00000132639	SNAP25	synaptosome associated protein 25	-3.4007	-2.4750
ENSG00000136828	RALGPS1	Ral GEF with PH domain and SH3 binding motif 1	-3.6255	-2.4682
ENSG00000055163	CYFIP2	cytoplasmic FMR1 interacting protein 2	-5.0788	-2.4415
ENSG00000117069	ST6GALNAC5	6-sialyltransferase 5,ST6 N-acetylgalactosaminide alpha-2	-4.4903	-2.4151
ENSG00000129757	CDKN1C	cyclin dependent kinase inhibitor 1C	-3.7682	-2.4105
ENSG00000242173	ARHGDI3	Rho GDP dissociation inhibitor gamma	-4.2508	-2.4011
ENSG00000135119	RNF2	ring finger protein,transmembrane 2	-3.0725	-2.3941
ENSG00000126214	AL139300.1,KLC1	kinesin light chain 1,novel protein	-3.7806	-2.3908
ENSG00000256500	AL139300.1,KLC1	kinesin light chain 1,novel protein	-3.7806	-2.3908

ENSG00000148660	CAMK2G	calcium/calmodulin dependent protein kinase II gamma	-3.1093	-2.3630
ENSG00000184347	SLIT3	slit guidance ligand 3	-3.8032	-2.3431
ENSG00000104427	ZC2HC1A	zinc finger C2HC-type containing 1A	-4.0366	-2.3372
ENSG00000110042	DTX4	deltex E3 ubiquitin ligase 4	-4.9599	-2.3328
ENSG00000168000	BSCL2,HNRNPUL2-BSCL2	BSCL2,HNRNPUL2-BSCL2 readthrough (NMD candidate),seipin lipid droplet biogenesis associated	-3.7526	-2.3245
ENSG00000234857	BSCL2,HNRNPUL2-BSCL2	BSCL2,HNRNPUL2-BSCL2 readthrough (NMD candidate),seipin lipid droplet biogenesis associated	-3.7526	-2.3245
ENSG00000070831	CDC42	cell division cycle 42	-3.3012	-2.3178
ENSG00000112320	SOBP	sine oculis binding protein homolog	-3.3338	-2.3067
ENSG00000187391	MAGI2	WW and PDZ domain containing 2,membrane associated guanylate kinase	-3.7397	-2.3054
ENSG00000167535	CACNB3	calcium voltage-gated channel auxiliary subunit beta 3	-3.1562	-2.3038
ENSG00000159784	FAM131B	family with sequence similarity 131 member B	-3.5133	-2.2805
ENSG00000105928	GSDME	gasdermin E	-3.5484	-2.2753
ENSG00000186642	PDE2A	phosphodiesterase 2A	-3.0656	-2.2716
ENSG00000230989	HSBP1	heat shock factor binding protein 1	-4.1583	-2.2600
ENSG00000172379	ARNT2	aryl hydrocarbon receptor nuclear translocator 2	-5.1952	-2.2367
ENSG00000064999	ANKS1A	ankyrin repeat and sterile alpha motif domain containing 1A	-4.0292	-2.2263
ENSG00000112541	PDE10A	phosphodiesterase 10A	-4.1232	-2.2254
ENSG00000171522	PTGER4	prostaglandin E receptor 4	-3.0261	-2.2215
ENSG00000084731	KIF3C	kinesin family member 3C	-4.7488	-2.2168
ENSG00000146072	TNFRSF21	TNF receptor superfamily member 21	-4.2072	-2.2039
ENSG00000176454	LPCAT4	lysophosphatidylcholine acyltransferase 4	-4.5027	-2.1825
ENSG00000183506	PI4KA,PI4KAP1,PI4KAP2	phosphatidylinositol 4-kinase alpha,phosphatidylinositol 4-kinase alpha pseudogene 1,phosphatidylino...	-4.6662	-2.1710
ENSG00000241973	PI4KA,PI4KAP1,PI4KAP2	phosphatidylinositol 4-kinase alpha,phosphatidylinositol 4-kinase alpha pseudogene 1,phosphatidylino...	-4.6662	-2.1710
ENSG00000175029	CTBP2,CTBP2P4,CTBP2P8	C-terminal binding protein 2,C-terminal binding protein 2 pseudogene 4,C-terminal binding protein 2 ...	-3.8650	-2.1632
ENSG00000234383	CTBP2,CTBP2P4,CTBP2P8	C-terminal binding protein 2,C-terminal binding protein 2 pseudogene 4,C-terminal binding protein 2 ...	-3.7832	-2.1632
ENSG00000251102	CTBP2,CTBP2P4,CTBP2P8	C-terminal binding protein 2,C-terminal binding protein 2 pseudogene 4,C-terminal binding protein 2 ...	-3.7832	-2.1632
ENSG00000166848	TERF2IP	TERF2 interacting protein	-4.0339	-2.1566
ENSG00000166780	C16orf45	chromosome 16 open reading frame 45	-3.2497	-2.1531
ENSG00000122679	RAMP3	receptor activity modifying protein 3	-3.2850	-2.1490
ENSG00000115306	SPTBN1	non-erythrocytic 1,spectrin beta	-5.5460	-2.1451
ENSG00000167972	ABCA3	ATP binding cassette subfamily A member 3	-4.1123	-2.1428
ENSG00000160271	RALGDS	ral guanine nucleotide dissociation stimulator	-3.5212	-2.1395
ENSG00000049759	NEDD4L	E3 ubiquitin protein ligase,developmentally down-regulated 4-like,neural precursor cell expressed	-3.5778	-2.1355
ENSG00000102996	MMP15	matrix metalloproteinase 15	-3.3897	-2.1348
ENSG00000088899	LZTS3	leucine zipper tumor suppressor family member 3	-3.4401	-2.1279
ENSG00000033627	ATP6VOA1	ATPase H+ transporting V0 subunit a1	-4.6509	-2.1103
ENSG00000105696	TMEM59L	transmembrane protein 59 like	-3.4092	-2.1095
ENSG00000108175	ZMIZ1	zinc finger MIZ-type containing 1	-3.7272	-2.0893
ENSG00000159842	ABR	ABR,RhoGEF and GTPase activating protein	-3.1210	-2.0754
ENSG00000115419	GLS	glutaminase	-4.4479	-2.0668
ENSG00000124788	ATXN1	ataxin 1	-3.1201	-2.0582
ENSG00000139998	RAB15	RAB15,member RAS oncogene family	-3.2626	-2.0305
ENSG00000134324	LPIN1	lipin 1	-5.0604	-2.0270
ENSG00000125827	TMX4	thioredoxin related transmembrane protein 4	-5.2816	-2.0253
ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta	-3.8247	-2.0244
ENSG00000160781	PAQR6	progesterin and adipoQ receptor family member 6	-3.3984	-2.0244
ENSG00000128266	GNAZ	G protein subunit alpha z	-4.3153	-2.0221
ENSG00000096092	TMEM14A	transmembrane protein 14A	-3.9574	-2.0215
ENSG00000128989	ARPP19	cAMP regulated phosphoprotein 19	-4.5903	-2.0203
ENSG00000167642	SPINT2	Kunitz type 2,serine peptidase inhibitor	-3.7222	-2.0042
ENSG00000072135	PTPN18	non-receptor type 18,protein tyrosine phosphatase	-5.2609	-1.9864
ENSG00000136717	BIN1	bridging integrator 1	-4.8908	-1.9802
ENSG00000109089	CDR2L	cerebellar degeneration related protein 2 like	-3.1588	-1.9731
ENSG00000112759	SLC29A1	solute carrier family 29 member 1 (Augustine blood group)	-3.3593	-1.9721
ENSG00000115756	HPCAL1	hippocalcin like 1	-3.9470	-1.9542
ENSG00000135622	SEMA4F	semaphorin 4F	-3.5039	-1.9538
ENSG00000101384	JAG1	jagged 1	-3.8352	-1.9493
ENSG00000063660	GPC1	glypican 1	-4.4101	-1.9447
ENSG00000066382	MPPED2	metallophosphoesterase domain containing 2	-3.5775	-1.9416
ENSG00000103254	FAM173A	family with sequence similarity 173 member A	-5.6675	-1.9362
ENSG00000204681	GABBR1	gamma-aminobutyric acid type B receptor	-3.4867	-1.9098

		subunit 1		
ENSG00000097021	ACOT7	acyl-CoA thioesterase 7	-3.0174	-1.9064
ENSG00000144681	STAC	SH3 and cysteine rich domain	-3.7590	-1.9006
ENSG00000198932	GPRASP1	G protein-coupled receptor associated sorting protein 1	-3.1870	-1.8946
ENSG00000151632	AKR1C1,AKR1C2	aldo-keto reductase family 1 member C1,aldo-keto reductase family 1 member C2	-3.2257	-1.8706
ENSG00000187134	AKR1C1,AKR1C2	aldo-keto reductase family 1 member C1,aldo-keto reductase family 1 member C2	-3.2257	-1.8706
ENSG00000173482	PTPRM	protein tyrosine phosphatase,receptor type M	-3.3735	-1.8664
ENSG00000128245	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein eta	-4.0465	-1.8662
ENSG00000155849	ELMO1	engulfment and cell motility 1	-5.4235	-1.8652
ENSG00000179604	CDC42EP4	CDC42 effector protein 4	-4.5775	-1.8628
ENSG00000171130	ATP6VOE2	ATPase H+ transporting V0 subunit e2	-4.1097	-1.8613
ENSG00000111674	ENO2	enolase 2	-3.0928	-1.8537
ENSG00000157514	TSC2D3	TSC22 domain family member 3	-4.3635	-1.8498
ENSG00000196405	EVL	Enah/Vasp-like	-3.0032	-1.8375
ENSG00000084234	APLP2	amyloid beta precursor like protein 2	-3.0338	-1.8212
ENSG00000142875	PRKACB	protein kinase cAMP-activated catalytic subunit beta	-3.4154	-1.8071
ENSG00000182871	COL18A1	collagen type XVIII alpha 1 chain	-3.5863	-1.7901
ENSG00000139182	CLSTN3	calsyntenin 3	-4.2503	-1.7822
ENSG00000115297	TLX2	T cell leukemia homeobox 2	-4.3993	-1.7678
ENSG00000156475	PPP2R2B	protein phosphatase 2 regulatory subunit Bbeta	-3.1539	-1.7624
ENSG00000162734	PEA15	proliferation and apoptosis adaptor protein 15	-3.6547	-1.7554
ENSG00000204843	AC006030.1,DCTN1	artifact,dynactin subunit 1	-3.4907	-1.7484
ENSG00000264324	AC006030.1,DCTN1	artifact,dynactin subunit 1	-3.4907	-1.7484
ENSG00000104643	MTMR9	myotubularin related protein 9	-3.3166	-1.7440
ENSG00000067836	ROGDI	rogdi atypical leucine zipper	-3.5792	-1.7351
ENSG00000148468	FAM171A1	family with sequence similarity 171 member A1	-4.4276	-1.7313
ENSG00000080845	DLGAP4	DLG associated protein 4	-3.6884	-1.7210
ENSG00000157152	SYN2	synapsin II	-3.8263	-1.7180
ENSG00000123240	OPTN	optineurin	-3.9507	-1.7171
ENSG00000108828	VAT1	vesicle amine transport 1	-4.5541	-1.7090
ENSG00000126500	FLRT1	fibronectin leucine rich transmembrane protein 1	-3.3806	-1.6902
ENSG00000159720	ATP6VOD1	ATPase H+ transporting V0 subunit d1	-3.0509	-1.6858
ENSG00000152061	RABGAP1L	RAB GTPase activating protein 1 like	-3.1165	-1.6735
ENSG00000105649	RAB3A	RAB3A,member RAS oncogene family	-4.1028	-1.6713
ENSG00000152291	TGOLN2	trans-golgi network protein 2	-3.6308	-1.6648
ENSG00000076356	PLXNA2	plexin A2	-3.0541	-1.6579
ENSG00000144935	TRPC1	transient receptor potential cation channel subfamily C member 1	-4.6354	-1.6411
ENSG00000160753	RUSC1	RUN and SH3 domain containing 1	-3.6287	-1.6406
ENSG00000091157	WDR7	WD repeat domain 7	-4.4897	-1.6401
ENSG00000166387	PPFIBP2	PPFIA binding protein 2	-3.3869	-1.6344
ENSG00000111879	FAM184A	family with sequence similarity 184 member A	-3.0221	-1.6318
ENSG00000150471	ADGRL3	adhesion G protein-coupled receptor L3	-3.3403	-1.6312
ENSG00000169862	CTNND2	catenin delta 2	-3.2201	-1.6259
ENSG00000130338	TULP4	tubby like protein 4	-3.3598	-1.6142
ENSG00000092096	SLC22A17	solute carrier family 22 member 17	-4.4094	-1.6133
ENSG00000102879	CORO1A	coronin 1A	-3.0208	-1.6127
ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase	-3.5407	-1.6043
ENSG00000129596	CDO1	cysteine dioxygenase type 1	-4.1365	-1.5987
ENSG00000137185	ZSCAN9	zinc finger and SCAN domain containing 9	-4.0904	-1.5952
ENSG00000183696	UPP1	uridine phosphorylase 1	-3.3107	-1.5906
ENSG00000115977	AAK1	AP2 associated kinase 1	-3.4310	-1.5877
ENSG00000115828	QPCT	glutaminyl-peptide cyclotransferase	-3.3508	-1.5698
ENSG00000112182	BACH2	BTB domain and CNC homolog 2	-3.1107	-1.5659
ENSG00000120265	PCMT1	protein-L-isoaspartate (D-aspartate) O-methyltransferase	-3.9517	-1.5584
ENSG00000163171	CDC42EP3	CDC42 effector protein 3	-3.0291	-1.5571
ENSG00000162511	LAPTM5	lysosomal protein transmembrane 5	-3.1547	-1.5518
ENSG00000135074	ADAM19	ADAM metallopeptidase domain 19	-3.9356	-1.5465
ENSG00000084764	MAPRE3	microtubule associated protein RP/EB family member 3	-4.5308	-1.5290
ENSG00000075399	VPS9D1	VPS9 domain containing 1	-3.2357	-1.5240
ENSG00000105808	AC105052.4,RASA4,RASA4CP	RAS p21 protein activator 4,RAS p21 protein activator 4C,UPK3BL and RASA4,novel transcript,pseudogen...	-3.2237	-1.5186
ENSG00000228903	AC105052.4,RASA4,RASA4CP	RAS p21 protein activator 4,RAS p21 protein activator 4C,UPK3BL and RASA4,novel transcript,pseudogen...	-3.2237	-1.5186
ENSG00000279168	AC105052.4,RASA4,RASA4CP	RAS p21 protein activator 4,RAS p21 protein activator 4C,UPK3BL and RASA4,novel transcript,pseudogen...	-3.2237	-1.5186
ENSG00000197102	DYNC1H1	dynein cytoplasmic 1 heavy chain 1	-4.0328	-1.5149
ENSG00000145882	PCYOX1L	prenylcysteine oxidase 1 like	-3.6245	-1.5097
ENSG00000100994	PYGB	glycogen phosphorylase B	-3.6862	-1.5088
ENSG00000203879	GDI1	GDP dissociation inhibitor 1	-3.6111	-1.5051
ENSG00000106665	CLIP2	CAP-Gly domain containing linker protein 2	-3.2352	-1.5027
ENSG00000167552	TUBA1A	tubulin alpha 1a	-3.3819	-1.4990

ENSG00000165943	MOAP1	modulator of apoptosis 1	-3.2878	-1.4914
ENSG00000197746	PSAP	prosaposin	-4.0459	-1.4652
ENSG00000130702	LAMA5	laminin subunit alpha 5	-3.5567	-1.4537
ENSG00000274602	PI4KA,PI4KAP1,PI4KAP2	phosphatidylinositol 4-kinase alpha,phosphatidylinositol 4-kinase alpha pseudogene 1,phosphatidyli...	-3.9428	-1.4498
ENSG00000135749	PCNX2	pecanex 2	-3.2566	-1.4497
ENSG00000213722	DDAH2	dimethylarginine dimethylaminohydrolase 2	-3.2479	-1.4373
ENSG00000163539	CLASP2	cytoplasmic linker associated protein 2	-3.0485	-1.4367
ENSG00000197694	SPTAN1	non-erythrocytic 1,spectrin alpha	-3.6763	-1.4358
ENSG00000171450	CDK5R2	cyclin dependent kinase 5 regulatory subunit 2	-3.1048	-1.4331
ENSG00000074964	ARHGEF10L	Rho guanine nucleotide exchange factor 10 like	-4.3102	-1.4189
ENSG00000168398	BDKRB2	bradykinin receptor B2	-3.1244	-1.4112
ENSG00000146966	DENND2A	DENN domain containing 2A	-4.1144	-1.4063
ENSG00000160310	PRMT2	protein arginine methyltransferase 2	-4.7102	-1.4016
ENSG00000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2	-4.4962	-1.3960
ENSG00000073464	CLCN4	chloride voltage-gated channel 4	-3.7278	-1.3795
ENSG00000158555	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5	-4.0443	-1.3679
ENSG00000171603	CLSTN1	calsyntenin 1	-3.3470	-1.3608
ENSG00000172775	FAM192A	family with sequence similarity 192 member A	-3.0325	-1.3400
ENSG00000100321	SYNGR1	synaptogyrin 1	-3.4942	-1.3388
ENSG00000109794	FAM149A	family with sequence similarity 149 member A	-3.5418	-1.3047
ENSG00000156515	HK1	hexokinase 1	-4.3379	-1.3047
ENSG00000143801	PSEN2	presenilin 2	-3.5855	-1.2722
ENSG00000135720	DYNC1LI2	dynein cytoplasmic 1 light intermediate chain 2	-4.4974	-1.2705
ENSG00000182768	AC091167.2,NGRN	neugrin,neurite outgrowth associated,novel transcript	-3.6230	-1.2562
ENSG00000261147	AC091167.2,NGRN	neugrin,neurite outgrowth associated,novel transcript	-3.6230	-1.2562
ENSG00000111897	SERINC1	serine incorporator 1	-4.1934	-1.2493
ENSG00000097033	SH3GLB1	SH3 domain containing GRB2 like,endophilin B1	-3.3995	-1.2432
ENSG00000072134	EPN2	epsin 2	-3.9484	-1.2382
ENSG00000138311	ZNF365	zinc finger protein 365	-4.6265	-1.2282
ENSG00000116667	C1orf21	chromosome 1 open reading frame 21	-4.1741	-1.2156
ENSG00000143507	DUSP10	dual specificity phosphatase 10	-5.8327	-1.2142
ENSG00000133639	BTG1	BTG anti-proliferation factor 1	-3.0241	-1.2110
ENSG00000167110	GOLGA2	golgin A2	-3.4608	-1.2089
ENSG00000152465	NMT2	N-myristoyltransferase 2	-3.3339	-1.1975
ENSG00000137312	FLOT1	flotillin 1	-3.7527	-1.1927
ENSG00000133318	AC079228.1,RTN3	reticulon 3,tec	-3.4379	-1.1807
ENSG00000278943	AC079228.1,RTN3	reticulon 3,tec	-3.4379	-1.1807
ENSG00000135945	REV1	DNA directed polymerase,REV1	-3.8091	-1.1769
ENSG00000087053	MTMR2	myotubularin related protein 2	-3.7181	-1.1715
ENSG00000072422	RHOBTB1	Rho related BTB domain containing 1	-3.5646	-1.1572
ENSG00000143420	ENSA	endosulfine alpha	-3.5747	-1.1528
ENSG00000168758	SEMA4C	semaphorin 4C	-4.0608	-1.1507
ENSG00000156639	ZFAND3	zinc finger AN1-type containing 3	-3.5046	-1.1248
ENSG00000159363	ATP13A2	ATPase cation transporting 13A2	-3.1878	-1.1091
ENSG00000065802	ASB1	ankyrin repeat and SOCS box containing 1	-3.5149	-1.0990
ENSG00000175582	RAB6A,RAB6C,RAB6D	RAB6A,RAB6C,RAB6D,member RAS oncogene family	-4.1898	-1.0907
ENSG00000222014	RAB6A,RAB6C,RAB6D	RAB6A,RAB6C,RAB6D,member RAS oncogene family	-4.1898	-1.0907
ENSG00000233087	RAB6A,RAB6C,RAB6D	RAB6A,RAB6C,RAB6D,member RAS oncogene family	-4.1898	-1.0907
ENSG00000071051	NCK2	NCK adaptor protein 2	-3.0201	-1.0868
ENSG00000172765	TMCC1	transmembrane and coiled-coil domain family 1	-3.8097	-1.0557
ENSG00000164107	HAND2	heart and neural crest derivatives expressed 2	-3.5466	-1.0527
ENSG00000141480	ARRB2	arrestin beta 2	-3.3275	-1.0473
ENSG00000140718	FTO	FTO,alpha-ketoglutarate dependent dioxygenase	-3.4502	-1.0356
ENSG00000112245	AL135905.2,PTP4A1	member 1,novel protein,protein tyrosine phosphatase type IVA	-3.0492	-1.0334
ENSG00000285976	AL135905.2,PTP4A1	member 1,novel protein,protein tyrosine phosphatase type IVA	-3.0492	-1.0334
ENSG00000128731	HERC2	HECT and RLD domain containing E3 ubiquitin protein ligase 2	-3.3793	-1.0333
ENSG00000099331	MYO9B	myosin IXB	-3.4858	-1.0261
ENSG00000166224	SGPL1	sphingosine-1-phosphate lyase 1	-3.1320	-1.0219
ENSG00000184014	DENND5A	DENN domain containing 5A	-3.6600	-1.0198
ENSG00000131508	UBE2D2	ubiquitin conjugating enzyme E2 D2	-4.5496	-1.0006
ENSG00000119242	CCDC92	coiled-coil domain containing 92	-3.0354	-0.99855
ENSG00000137507	LRRC32	leucine rich repeat containing 32	-3.1061	-0.99750
ENSG00000126705	AHDC1	AT-hook DNA binding motif containing 1	-3.9504	-0.99580
ENSG00000153885	KCTD15	potassium channel tetramerization domain containing 15	-3.2534	-0.98200
ENSG00000006210	CX3CL1	C-X3-C motif chemokine ligand 1	-3.4391	-0.97415
ENSG00000101290	CDS2	CDP-diacylglycerol synthase 2	-4.0525	-0.97090

ENSG00000116141	MARK1	microtubule affinity regulating kinase 1	-3.4387	-0.96588
ENSG00000144711	IQSEC1	IQ motif and Sec7 domain 1	-3.0323	-0.95811
ENSG00000160014	CALM3	calmodulin 3	-3.5119	-0.95492
ENSG00000204301	NOTCH4	notch 4	-4.7180	-0.95484
ENSG00000129355	CDKN2D	cyclin dependent kinase inhibitor 2D	-3.0274	-0.95150
ENSG00000008294	SPAG9	sperm associated antigen 9	-3.5032	-0.94793
ENSG00000072210	ALDH3A2	aldehyde dehydrogenase 3 family member A2	-3.6834	-0.92821
ENSG00000164951	PDP1	pyruvate dehydrogenase phosphatase catalytic subunit 1	-3.0778	-0.92743
ENSG00000135744	AGT	angiotensinogen	-3.2427	-0.92012
ENSG00000185963	BICD2	BICD cargo adaptor 2	-3.1016	-0.91875
ENSG00000103502	CDIPT	CDP-diacylglycerol--inositol 3-phosphatidyltransferase	-3.1314	-0.91387
ENSG00000156052	GNAQ	G protein subunit alpha q	-3.1732	-0.90723
ENSG00000180901	KCTD2	potassium channel tetramerization domain containing 2	-4.2784	-0.90536
ENSG00000198853	RUSC2	RUN and SH3 domain containing 2	-3.3746	-0.90479
ENSG00000175048	ZDHC14	zinc finger DHC-type containing 14	-4.0654	-0.90392
ENSG00000184277	TM2D3	TM2 domain containing 3	-4.3089	-0.90267
ENSG00000128268	MGAT3	4-glycoprotein beta-1,4-N-acetylglucosaminyltransferase,mannosyl (beta-1)	-4.2991	-0.89903
ENSG00000198792	TMEM184B	transmembrane protein 184B	-4.3732	-0.89791
ENSG00000116514	RNF19B	ring finger protein 19B	-3.5699	-0.89722
ENSG00000168781	PPP5K1	diphosphoinositol pentakisphosphate kinase 1	-3.8261	-0.89570
ENSG00000167851	CD300A	CD300a molecule	-3.2814	-0.86880
ENSG00000115762	PLEKHB2	pleckstrin homology domain containing B2	-3.6399	-0.86344
ENSG00000131831	RAI2	retinoic acid induced 2	-4.0835	-0.86234
ENSG00000197386	HTT	huntingtin	-3.4663	-0.85526
ENSG00000163794	UCN	urocortin	-3.2277	-0.83843
ENSG00000180357	ZNF609	zinc finger protein 609	-3.1924	-0.82895
ENSG00000115216	NRBP1	nuclear receptor binding protein 1	-3.1618	-0.80891
ENSG00000148600	CDHR1	cadherin related family member 1	-3.8807	-0.80676
ENSG00000145495	MARCH6	membrane associated ring-CH-type finger 6	-3.1280	-0.79217
ENSG00000197147	LRR8B	leucine rich repeat containing 8 VRAC subunit B	-3.9283	-0.77503
ENSG00000082641	NFE2L1	erythroid 2 like 1,nuclear factor	-3.0127	-0.76407
ENSG00000275066	SYNRG	synergin gamma	-3.5069	-0.75774
ENSG00000213995	NAXD	NAD(P)HX dehydratase	-3.8909	-0.71333
ENSG00000152102	FAM168B	family with sequence similarity 168 member B	-3.5737	-0.70496
ENSG00000257923	CUX1	cut like homeobox 1	-3.4653	-0.69379
ENSG00000105254	TBCB	tubulin folding cofactor B	-3.3653	-0.69049
ENSG00000154122	ANKH	ANKH inorganic pyrophosphate transport regulator	-3.9431	-0.68631
ENSG00000176148	TCP11L1	t-complex 11 like 1	-3.0947	-0.67397
ENSG00000101400	SNTA1	syntrophin alpha 1	-3.6905	-0.66789
ENSG00000169432	SCN9A	sodium voltage-gated channel alpha subunit 9	-3.1985	-0.65830
ENSG00000107551	RASSF4	Ras association domain family member 4	-3.2719	-0.64590
ENSG00000167553	TUBA1C	tubulin alpha 1c	-3.9236	-0.63355
ENSG00000135299	ANKRD6	ankyrin repeat domain 6	-3.0599	-0.62395
ENSG00000182827	ACBD3	acyl-CoA binding domain containing 3	-3.8849	-0.61000
ENSG00000171552	BCL2L1	BCL2 like 1	-3.4460	-0.60154
ENSG00000085365	SCAMP1	secretory carrier membrane protein 1	-3.9572	-0.59669
ENSG00000168118	RAB4A,SPHAR	RAB4A,S-phase response (cyclin related),member RAS oncogene family	-3.2597	-0.58720
ENSG00000213029	RAB4A,SPHAR	RAB4A,S-phase response (cyclin related),member RAS oncogene family	-3.2597	-0.58720
ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1	-3.2094	-0.58707
ENSG00000107295	SH3GL2	SH3 domain containing GRB2 like 2,endophilin A1	-3.2311	-0.58451
ENSG00000100077	GRK3	G protein-coupled receptor kinase 3	-3.4631	-0.57175
ENSG00000154975	CA10	carbonic anhydrase 10	-3.0611	-0.56290
ENSG00000137486	ARRB1	arrestin beta 1	-3.1103	-0.56004
ENSG00000143549	TPM3	tropomyosin 3	-3.0975	-0.54313
ENSG00000103249	CLCN7	chloride voltage-gated channel 7	-3.3896	-0.51922

Workflow description

This workflow is designed to identify differentially expressed genes from an experiment data set compared to a control data set. Normalized data with Affymetrix probeset IDs can be submitted as input. Such normalized files are the output of the workflow [Normalize Affymetrix experiment and control](#).

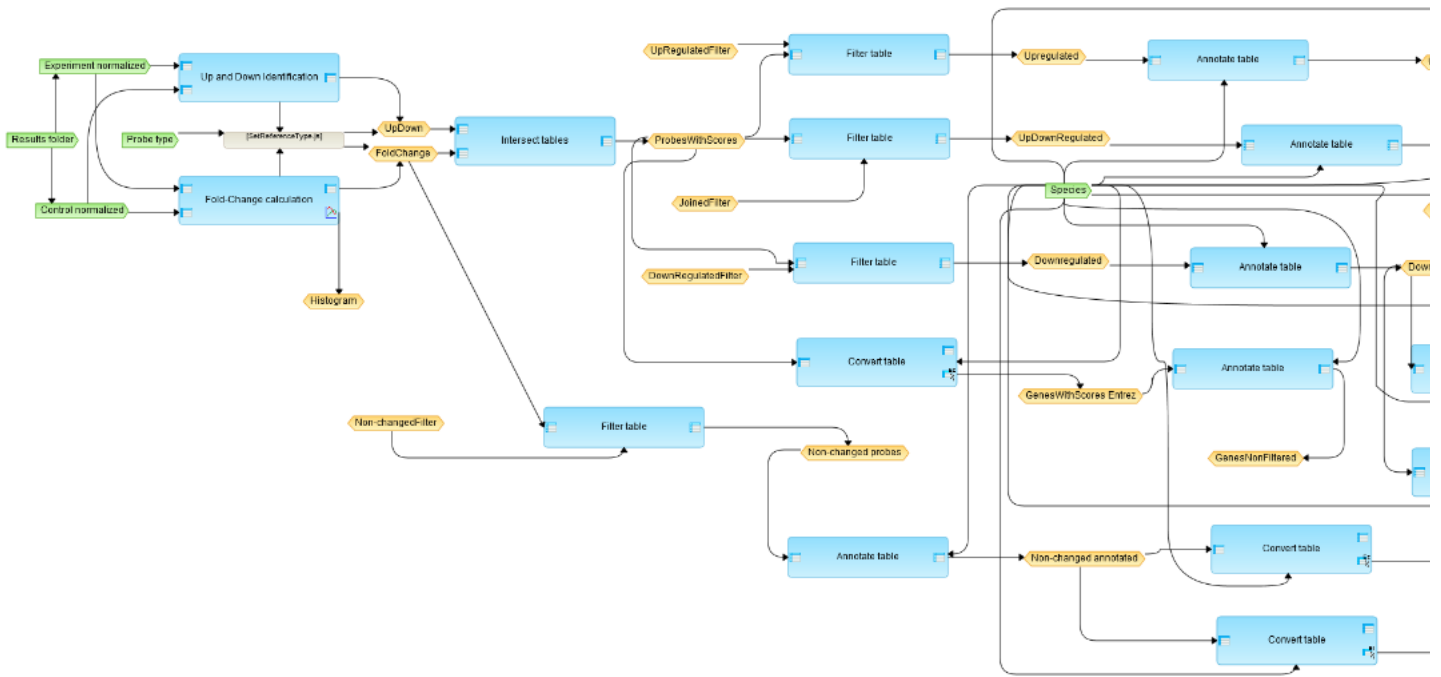
In the first step, the up- and down-regulated probes are identified and log fold change values are calculated for all probes using the *Up and Down Identification* analysis. This analysis applies Student's T-test and calculates p-values, thus the number of data points should be at least three for each experiment data set and control data set. A histogram with the log fold change distribution from the whole experiment is drawn and given output image file.

In addition the results are filtered by different conditions in parallel applying the *Filter table* method, to identify up-regulated, down-regulated, and non-changed Affymetrix probeset IDs. The filtering criteria are set as follows:

For up-regulated probes: $\text{LogFoldChange} > 0.5$ and $-\text{log}_P_value_ > 3$.
For down-regulated probes: $\text{LogFoldChange} < -0.5$ and $-\text{log}_P_value_ < -3$.
For non-changed genes : $\text{LogFoldChange} < 0.002$ and $\text{LogFoldChange} > -0.002$

The resulting tables of up-regulated, down-regulated, and non-changed Affymetrix probeset IDs are converted into a gene table with the *Convert table* method and annotated with additional information (gene descriptions, gene symbols, and species) via *Annotate table* method.

A result folder is generated and automatically named corresponding to the experiment data set name. This resulting folder contains all tables, the histogram and a summary HTML report.



Thank you for using the geneXplain platform!

Your geneXplain team

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 Google+: <https://plus.google.com/10481624433228237960>