

Additional file 5: Adult B-ALL vs. Pediatric B-ALL, T-ALL, and AML.						
Blank = "absent"						
GC-response		Sensitive	Sensitive	Sensitive	Sensitive	Sensitive
Patient-derived cell line		Adult	Pediatric	Pediatric	Pediatric	Pediatric
Cell lineage		B-cell	B-cell	T-cell	T-cell	Myeloid
Sub-type of leukemia		ALL	ALL	ALL	ALL	AML
Name	Description	RS4 Dx	SUP Dx	C7-14 Dx	C1-6 Dx	Kas Dx
		Stat. sign	Stat. sign	Stat. sign	Stat. sign	Stat. sign
76P	gamma tubulin ring complex protein (76p gene)	-1.9	-1.6			1.6
AARS	alanyl-tRNA synthetase	-2.0	-1.9	-1.3		-1.5
AASDHPPT	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	-1.4	-1.3			
AATF	apoptosis antagonizing transcription factor	-1.3			-1.4	
ABAT	4-aminobutyrate aminotransferase	-21.9				14.5
ABCB6	ATP-binding cassette, sub-family B (MDR/TAP), member 6	-1.6		1.3		3.4
ABCB7	ATP-binding cassette, sub-family B (MDR/TAP), member 7	1.3				
ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	1.9	-2.0		1.5	-3.3
ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	-1.4	-1.8	2.1		
ABCE1	ATP-binding cassette, sub-family E (OABP), member 1	1.4	-2.0	-1.5		-4.2
ABI1	abl-interactor 1	1.4	1.7			2.8
ABI2	abl-interactor 2	1.3	-1.9			-2.7
ABLIM1	actin binding LIM protein 1	-5.8	-3.1			
ACADM	acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain	-1.8				1.7
ACAT2	acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase)	-2.4	-1.5			
ACBD3	acyl-Coenzyme A binding domain containing 3	-2.0	1.4			1.5
ACD	adrenocortical dysplasia homolog (mouse)	-1.3				
ACLY	ATP citrate lyase	-1.4	-1.7			-1.3
ACO1	aconitase 1, soluble	1.4		1.3	1.4	-1.2
ACOT2	acyl-CoA thioesterase 2	5.0				-7.8
ACOT7	acyl-CoA thioesterase 7	-1.6	-1.4			-1.3
ACOX1	acyl-Coenzyme A oxidase 1, palmitoyl	5.2				-3.5
ACP1	acid phosphatase 1, soluble	-2.1				-1.8
ACSL3	acyl-CoA synthetase long-chain family member 3	-1.8	-1.3			2.2
ACSL4	acyl-CoA synthetase long-chain family member 4	-1.7				
ACTB	actin, beta	-1.5				1.6
ACTL6A	actin-like 6A	-1.5	-1.3			-1.6
ACTN1	actinin, alpha 1	5.4	-1.2			-3.5
ACTR2	ARP2 actin-related protein 2 homolog (yeast)	-1.4	1.3	1.2		1.6
ACTR3	ARP3 actin-related protein 3 homolog (yeast)	2.0				-1.6
ACVR1B	activin A receptor, type IB	1.7				-1.5
ACY1	aminoacylase 1	1.7				-4.3
ADA	adenosine deaminase	-9.1	1.3	-1.3	-1.5	3.4
ADAM10	ADAM metallopeptidase domain 10	-3.0	2.1			2.8

ADAM17	ADAM metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)	-1.7	1.5			1.8
ADAM9	ADAM metalloproteinase domain 9 (meltrin gamma)	2.4	1.6			2.1
ADARB1	adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)	-34.5				1.7
ADCY7	adenylate cyclase 7	-3.1	-1.5			3.7
ADD1	adducin 1 (alpha)	1.2	1.8			2.0
ADFP	adipose differentiation-related protein	3.3	1.5			-2.0
ADH5	alcohol dehydrogenase 5 (class III), chi polypeptide	2.4				-2.1
ADIPOR2	adiponectin receptor 2	-1.5	1.9			
ADK	adenosine kinase	1.6	-2.0			-4.1
ADNP	activity-dependent neuroprotector	-1.4	-1.2			1.5
ADRBK1	adrenergic, beta, receptor kinase 1	-2.0				-1.3
ADRBK2	adrenergic, beta, receptor kinase 2	1.6	-1.5			-2.2
ADRM1	adhesion regulating molecule 1	2.2				-3.5
ADSL	adenylosuccinate lyase	1.5	-1.5			-2.4
AEBP1	AE binding protein 1	-1.6	1.5			2.1
AES	amino-terminal enhancer of split	-2.1		1.2		3.0
AFF1	AF4/FMR2 family, member 1	-3.5	2.8			8.6
AFG3L2	AFG3 ATPase family gene 3-like 2 (yeast)	1.3		-1.3		-2.0
AGA	aspartylglucosaminidase	-1.3				-1.7
AGGF1	angiogenic factor with G patch and FHA domains 1	1.8				-1.8
AGL	amylase-1, 6-glucohydrolase, 4-alpha-glucohydrolase (glycogen debranching enzyme, glycogen storage disease type III)	-2.0				3.3
AGPAT1	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)	1.8	-1.4	1.4		1.3
AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)	1.5				-1.4
AGPS	alkylglycerone phosphate synthase	5.5	5.0			-2.6
AGRN	agrin	-1.6	-2.8			
AHCY	S-adenosylhomocysteine hydrolase	1.4	-1.4			-2.7
AHCYL1	S-adenosylhomocysteine hydrolase-like 1	1.6	-1.4			-1.6
AIF1	allograft inflammatory factor 1	2.5				-39.1
AIP	aryl hydrocarbon receptor interacting protein	-1.4				
AK2	adenylate kinase 2	-1.4	-2.2		-1.6	-3.3
AKAP1	A kinase (PRKA) anchor protein 1	-1.8	-2.4	-1.6		-2.2
AKAP10	A kinase (PRKA) anchor protein 10	-2.7				2.9
AKAP11	A kinase (PRKA) anchor protein 11	-1.2	-1.3			-1.5
AKR1A1	aldo-keto reductase family 1, member A1 (aldehyde reductase)	-2.6	-2.3			
AKR1B1	aldo-keto reductase family 1, member B1 (aldose reductase)	-4.2	-1.2			8.1
AKR7A2	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	-1.6				-1.3
AKT1	v-akt murine thymoma viral oncogene homolog 1	-1.5				1.3
ALAS1	aminolevulinic acid, delta-, synthase 1	2.4				-1.9
ALDH4A1	aldehyde dehydrogenase 4 family, member A1	1.9		1.6		-3.5
ALDH5A1	aldehyde dehydrogenase 5 family, member A1 (succinate-semialdehyde dehydrogenase)	-1.5	-1.4			-2.2
ALDH6A1	aldehyde dehydrogenase 6 family, member A1	1.6	-1.7		1.6	
ALDOA	aldolase A, fructose-bisphosphate	-1.5	-1.3			-1.3

ALS2CR3	trafficking protein, kinesin binding 2	1.7	2.4			2.8
AMD1	adenosylmethionine decarboxylase 1	1.4		-1.4		-2.4
AMPD2	adenosine monophosphate deaminase 2 (isoform L)	1.9	-2.5			-2.9
ANAPC10	anaphase promoting complex subunit 10	1.8				-1.3
ANAPC13	anaphase promoting complex subunit 13	1.2	-1.3			-1.7
ANAPC5	anaphase promoting complex subunit 5	1.5	-1.8			-2.3
ANGPT1	angiopoietin 1	1.8				-8.8
ANKRD28	ankyrin repeat domain 28	2.2	2.2		-2.0	-4.1
ANKRD40	ankyrin repeat domain 40	-1.5				1.4
ANP32A	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	2.1	-1.3			-1.8
ANXA11	annexin A11	1.8	1.8			-1.2
ANXA6	annexin A6	2.4			1.3	-1.3
ANXA7	annexin A7	1.6				-1.3
AP1B1	adaptor-related protein complex 1, beta 1 subunit	-1.4				2.2
AP1S2	adaptor-related protein complex 1, sigma 2 subunit	-27.2	1.6	1.8		21.8
AP3D1	adaptor-related protein complex 3, delta 1 subunit	1.5	1.3			
AP3S1	adaptor-related protein complex 3, sigma 1 subunit	1.4	2.4	1.6	1.9	2.1
AP3S2	adaptor-related protein complex 3, sigma 2 subunit	2.2				-1.8
APG12L	ATG12 autophagy related 12 homolog (S. cerevisiae)	1.3	1.9	1.6	1.9	2.5
API5	apoptosis inhibitor 5	1.6	-2.1			-2.0
APLP2	amyloid beta (A4) precursor-like protein 2	4.2	-1.7			-12.0
APOBEC3B	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B	-1.9				2.0
APPBP1	amyloid beta precursor protein binding protein 1	-1.2	-1.3			-1.2
APPBP2	amyloid beta precursor protein (cytoplasmic tail) binding protein 2	2.0	1.4			-1.3
ARF1	ADP-ribosylation factor 1	1.3	-1.2			-1.2
ARF3	ADP-ribosylation factor 3	1.4	-1.3	1.3		-1.3
ARF4	ADP-ribosylation factor 4	1.3				-1.6
ARF5	ADP-ribosylation factor 5	-2.4				2.0
ARF6	ADP-ribosylation factor 6	1.4	1.7			1.7
ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)	-1.6	1.5			1.8
ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)	1.3				-1.2
ARHGAP12	Rho GTPase activating protein 12	1.7			-1.3	
ARHGAP5	Rho GTPase activating protein 5	-1.4				2.3
ARHGDI A	Rho GDP dissociation inhibitor (GDI) alpha	-1.3				
ARHGDI B	Rho GDP dissociation inhibitor (GDI) beta	-1.4				1.5
ARHGEF18	rho/rac guanine nucleotide exchange factor (GEF) 18	1.5	2.5	1.3		3.3
ARHGEF2	rho/rac guanine nucleotide exchange factor (GEF) 2	1.3	1.3			-1.7
ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	-1.4	-1.3	1.3		
ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	-1.8	3.6			5.1
ARID4A	AT rich interactive domain 4A (RBP1-like)	2.9				
ARID5B	AT rich interactive domain 5B (MRF1-like)	-34.1	-2.2			8.6
ARIH1	ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	1.7	1.6			1.8

ARIH2	ariadne homolog 2 (Drosophila)	-1.5	1.6			-2.4
ARL1	ADP-ribosylation factor-like 1	1.3		-1.2		-1.5
ARL4A	ADP-ribosylation factor-like 4A	26.8				-33.8
ARL6IP	ADP-ribosylation factor-like 6 interacting protein 1	-2.2	1.7			2.7
ARPC1A	actin related protein 2/3 complex, subunit 1A, 41kDa	-2.8				2.2
ARPC1B	actin related protein 2/3 complex, subunit 1B, 41kDa	1.3			-1.3	
ARPC2	actin related protein 2/3 complex, subunit 2, 34kDa	-1.3				1.4
ARPC4	actin related protein 2/3 complex, subunit 4, 20kDa	-4.7				4.1
ARPC5	actin related protein 2/3 complex, subunit 5, 16kDa	-1.4	1.4			2.3
ARPP-19	cyclic AMP phosphoprotein, 19 kD	-2.5				2.4
ARRB2	arrestin, beta 2	-2.1				1.3
ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1	4.4	-1.3			-3.8
ASB1	ankyrin repeat and SOCS box-containing 1	-1.8				1.4
ASCC3L1	activating signal cointegrator 1 complex subunit 3-like 1	-1.5	-1.4			
ASK	DBF4 homolog (S. cerevisiae)	-1.7	1.5			
ASMTL	acetylserotonin O-methyltransferase-like	-2.7				3.2
ASNS	asparagine synthetase	2.9				-9.0
ASS	argininosuccinate synthetase 1	-1.4	-3.8			-2.0
ASXL1	additional sex combs like 1 (Drosophila)	-1.6	-1.4			-2.2
ATF2	activating transcription factor 2	1.6	1.5			-1.5
ATF4	activating transcription factor 4 (tax-responsive enhancer element B67)	-1.3	-1.4	-1.5		
ATF5	activating transcription factor 5	-1.6	-2.0			
ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	-2.1	-3.2	-1.4	-2.0	-1.3
ATOX1	ATX1 antioxidant protein 1 homolog (yeast)	5.6				-13.3
ATP11B	ATPase, Class VI, type 11B	-1.6	5.1		1.5	4.7
ATP1A1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	1.3	-1.6			-2.4
ATP1A3	ATPase, Na+/K+ transporting, alpha 3 polypeptide	-13.1				
ATP2A2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	1.3	-1.5			-2.5
ATP2A3	ATPase, Ca++ transporting, ubiquitous	2.5	1.2			-2.0
ATP2B1	ATPase, Ca++ transporting, plasma membrane 1	-2.1	-2.1			
ATP2B4	ATPase, Ca++ transporting, plasma membrane 4	-3.8	2.8			3.9
ATP2C1	ATPase, Ca++ transporting, type 2C, member 1	1.9				1.5
ATP5A1	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	1.3				-1.5
ATP5C1	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1	1.4				-1.5
ATP5G3	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C3 (subunit 9)	2.3				-3.8
ATP5H	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit d	1.5	-1.2			-2.4
ATP5J	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F6	-1.8				3.0
ATP5J2	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F2	-1.3				
ATP5L	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit G	1.7	1.6			-1.6
ATP6AP2	ATPase, H+ transporting, lysosomal accessory protein 2	2.2	1.2			-1.8
ATP6V0C	ATPase, H+ transporting, lysosomal 16kDa, V0 subunit c	-1.4	1.3			1.9
ATP6V0D1	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1	1.4		1.3		-1.3

ATP6V0E	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1	1.3				-1.4
ATP6V1A	ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A	1.9		1.5		-1.9
ATP6V1B2	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2	1.5				
ATP6V1C1	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1	-2.1		-1.4		2.1
ATP6V1D	ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D	-1.3	1.3			1.9
ATP9B	ATPase, Class II, type 9B	-1.7				
ATRX	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, <i>S. cerevisiae</i>)	1.4				1.7
ATXN2L	ataxin 2-like	-2.2				1.8
AURKB	aurora kinase B	-3.3	1.4			3.0
B2M	beta-2-microglobulin	-1.6				3.1
B3GNT1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	-2.7				
B4GALT6	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	2.5				-6.7
B930013M22RIK	ras responsive element binding protein 1	3.1	2.1			1.5
BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1	1.2	1.3			1.2
BAG2	BCL2-associated athanogene 2	-1.2	-1.8			-1.5
BAMBI	BMP and activin membrane-bound inhibitor homolog (<i>Xenopus laevis</i>)	-2.7			-1.7	1.5
BANF1	barrier to autointegration factor 1	-2.0	-1.5			
BARD1	BRCA1 associated RING domain 1	-3.6	1.3	1.3		3.4
BAT1	HLA-B associated transcript 1	1.5	-1.6			
BAT3	HLA-B associated transcript 3	-1.4	-1.4			
BAX	BCL2-associated X protein	-1.8				
BAZ1B	bromodomain adjacent to zinc finger domain, 1B	-1.9	-1.2			
BC-2	chromatin modifying protein 2A	-1.4	1.5			1.5
BCAP29	B-cell receptor-associated protein 29	2.0	1.5			
BCAT2	branched chain aminotransferase 2, mitochondrial	1.7		-1.3		-2.7
BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide (maple syrup urine disease)	2.2				-2.5
BCL10	B-cell CLL/lymphoma 10	1.2				
BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	-1.8				1.2
BCL2	B-cell CLL/lymphoma 2	-11.2	-2.8			1.5
BCL2L11	BCL2-like 11 (apoptosis facilitator)	1.2	3.1	3.1	5.9	5.1
BCL7A	B-cell CLL/lymphoma 7A	-3.3	-1.3			1.5
BCL7B	B-cell CLL/lymphoma 7B	-1.4				
BCLAF1	BCL2-associated transcription factor 1	2.0	-1.7	-1.3		-1.8
BCR	breakpoint cluster region	-1.4				4.7
BDH1	3-hydroxybutyrate dehydrogenase, type 1	-1.3		-1.3	-1.5	-1.6
BET1	BET1 homolog (<i>S. cerevisiae</i>)	-2.2				1.6
BICD2	bicaudal D homolog 2 (<i>Drosophila</i>)	-1.2				-1.2
BID	BH3 interacting domain death agonist	-3.4	-1.9	1.4		-1.3
BIN1	bridging integrator 1	-1.3			1.6	9.6
BIRC2	baculoviral IAP repeat-containing 2	1.4	1.9	1.9		1.6
BIRC5	baculoviral IAP repeat-containing 5 (survivin)	-1.8				2.4
BLCAP	bladder cancer associated protein	1.4	-1.5			-1.4

BLMH	bleomycin hydrolase	1.3				
BLOC1S1	biogenesis of lysosome-related organelles complex-1, subunit 1	-1.9				1.6
BMP2K	BMP2 inducible kinase	1.5				-1.6
BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2	-1.4	1.7	1.5		1.4
BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3	312.5		1.4		-331.2
BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like	2.0	-1.3			1.9
BPGM	2,3-bisphosphoglycerate mutase	-1.5				
BRCA1	breast cancer 1, early onset	-1.5	-1.4			-2.6
BRCA2	breast cancer 2, early onset	-2.7				
BRD4	bromodomain containing 4	-1.3				1.4
BRMS1	breast cancer metastasis suppressor 1	-1.6				
BRRN1	non-SMC condensin I complex, subunit H	-1.9				-1.8
BST2	bone marrow stromal cell antigen 2	-1.5				1.4
BTAF1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (Mot1 homolog, <i>S. cerevisiae</i>)	1.6				-2.0
BTG3	BTG family, member 3	-1.6				-2.2
BTN3A2	butyrophilin, subfamily 3, member A2	-5.8				3.9
BTN3A3	butyrophilin, subfamily 3, member A3	-5.9	-1.4			4.2
BUB1	BUB1 budding uninhibited by benzimidazoles 1 homolog (yeast)	-1.3	1.4			-1.3
BUB1B	BUB1 budding uninhibited by benzimidazoles 1 homolog beta (yeast)	-1.9				
BUB3	BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast)	-1.4	1.3			-1.4
BYSL	bystin-like	-6.2	-8.4	-2.2	-2.3	-4.0
C13ORF24	chromosome 13 open reading frame 24	1.2				-1.5
C19ORF10	chromosome 19 open reading frame 10	1.3				-2.2
C19ORF2	chromosome 19 open reading frame 2	1.8	-1.3			-2.7
C1D	nuclear DNA-binding protein	-1.6				
C1ORF48	NSL1, MIND kinetochore complex component, homolog (<i>S. cerevisiae</i>)	-1.5				1.4
C1QBP	complement component 1, q subcomponent binding protein	-2.0	-1.9	-1.8		
C21ORF33	chromosome 21 open reading frame 33	1.8		1.2		-2.5
C5ORF13	chromosome 5 open reading frame 13	-3.7	-3.3	-1.3		4.7
C5ORF18	receptor accessory protein 5	3.6	1.4			-4.6
C5ORF22	chromosome 5 open reading frame 22	1.2				-1.3
C6ORF108	chromosome 6 open reading frame 108	2.7	-3.3			-51.4
C6ORF69	potassium channel tetramerisation domain containing 20	-1.3				1.2
C7ORF44	chromosome 7 open reading frame 44	2.8				-4.8
CABIN1	calcineurin binding protein 1	-1.3	-1.4	1.7	2.0	
CALM1	calmodulin 1 (phosphorylase kinase, delta)	-1.4	1.6			4.4
CALM2	calmodulin 2 (phosphorylase kinase, delta)	-1.2	1.2			
CALM3	calmodulin 3 (phosphorylase kinase, delta)	-1.5	1.2			1.3
CALR	calreticulin	4.7	-1.4	-1.9		-5.3
CAMK2G	calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma	2.1				-2.6
CAMK4	calcium/calmodulin-dependent protein kinase IV	-5.8				8.0
CAMKK2	calcium/calmodulin-dependent protein kinase kinase 2, beta	1.7	-2.1			-3.7

CAMLG	calcium modulating ligand	2.9	-1.5			-2.0
CAMTA2	calmodulin binding transcription activator 2	-1.5		1.4		2.0
CANX	calnexin	1.6	-1.3			-2.5
CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	1.3	1.3			1.7
CAP350	centrosomal protein 350kDa	1.6	2.3			1.5
CAPG	capping protein (actin filament), gelsolin-like	-49.5				61.6
CAPN2	calpain 2, (m/II) large subunit	2.4				-2.2
CAPN7	calpain 7	1.4				
CAPNS1	calpain, small subunit 1	-1.3				1.6
CAPZA2	capping protein (actin filament) muscle Z-line, alpha 2	-2.1	1.8			1.9
CARM1	coactivator-associated arginine methyltransferase 1	-1.8	-1.7	-1.6		-1.4
CARS	cysteinyl-tRNA synthetase	-1.7	-1.2		-1.4	
CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	-1.3				1.2
CASP2	caspase 2, apoptosis-related cysteine peptidase (neural precursor cell expressed, developmentally down-regulated 2)	-3.1	-1.8			2.2
CASP6	caspase 6, apoptosis-related cysteine peptidase	2.4	1.4			-1.8
CASP8	caspase 8, apoptosis-related cysteine peptidase	3.2	1.5			-1.5
CASP9	caspase 9, apoptosis-related cysteine peptidase	-1.3				1.3
CAT	catalase	4.5	-1.3	1.3		1.4
CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2	1.5				-1.3
CBFB	core-binding factor, beta subunit	-2.3				1.5
CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence	1.6				
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	-1.6	1.8			4.1
CBX3	chromobox homolog 3 (HP1 gamma homolog, Drosophila)	2.2	1.2			-2.1
CBX6	chromobox homolog 6	-1.4	-2.1			-2.0
CCDC28A	coiled-coil domain containing 28A	-1.3		1.6		1.8
CCDC6	coiled-coil domain containing 6	2.6	1.9			-4.5
CCNA2	cyclin A2	-2.2	1.3			1.5
CCNB1	cyclin B1	-1.5	1.9			2.6
CCNC	cyclin C	1.3				-1.4
CCND3	cyclin D3	-10.6			-1.8	7.2
CCNE1	cyclin E1	2.3				-14.9
CCNE2	cyclin E2	-2.9	-1.3	1.2		2.2
CCNF	cyclin F	-2.6	2.0			2.7
CCNG1	cyclin G1	1.8	1.3			
CCNH	cyclin H	1.6	1.3			-1.5
CCNI	cyclin I	-1.7	1.5			1.6
CCNT2	cyclin T2	2.6	2.0			-2.0
CCT3	chaperonin containing TCP1, subunit 3 (gamma)	1.2	-1.6			-1.7
CCT6A	chaperonin containing TCP1, subunit 6A (zeta 1)	4.9		-1.6	-1.7	-5.1
CCT8	chaperonin containing TCP1, subunit 8 (theta)	1.2	-1.6			-1.3
CD164	CD164 molecule, sialomucin	-1.7	1.8			2.6
CD34	CD34 molecule	12.3	-3.0			-18.1

CD37	CD37 molecule	2.5				-4.9
CD38	CD38 molecule	-2.9	-2.4			8.4
CD40	CD40 molecule, TNF receptor superfamily member 5	-1.4				1.3
CD44	CD44 molecule (Indian blood group)	3.2	-3.0	-1.7		-13.1
CD47	CD47 molecule	-2.4	-1.7	1.7		2.0
CD48	CD48 molecule	-14.5	-2.5	1.9		4.3
CD53	CD53 molecule	1.4	3.1	3.1	3.2	7.2
CD59	CD59 molecule, complement regulatory protein	-3.7			1.8	10.6
CD63	CD63 molecule	1.4	1.2			
CD69	CD69 molecule	6.3	3.8	4.9	2.0	-1.5
CD72	CD72 molecule	-23.3	1.6			31.2
CD79A	CD79a molecule, immunoglobulin-associated alpha	-24.9	1.3	2.0	3.6	24.6
CD81	CD81 molecule	-1.9				1.3
CD83	CD83 molecule	2.1				
CD99	CD99 molecule	1.7	3.4		1.8	2.6
CDC16	cell division cycle 16 homolog (S. cerevisiae)	1.6	1.2			
CDC2	cell division cycle 2, G1 to S and G2 to M	-1.6	2.0			
CDC23	cell division cycle 23 homolog (S. cerevisiae)	-1.9	-1.3			-2.1
CDC25A	cell division cycle 25 homolog A (S. cerevisiae)	-1.6	-1.4	-1.4		-19.4
CDC25B	cell division cycle 25 homolog B (S. cerevisiae)	-1.2	1.6			1.6
CDC2L6	cell division cycle 2-like 6 (CDK8-like)	-1.4	3.3		1.8	3.8
CDC6	cell division cycle 6 homolog (S. cerevisiae)	-1.7	-2.9	-1.3	-1.5	-4.7
CDC7	cell division cycle 7 homolog (S. cerevisiae)	-1.4	-1.4	1.3		-2.4
CDH2	cadherin 2, type 1, N-cadherin (neuronal)	30.0				-72.0
CDIPT	CDP-diacylglycerol--inositol 3-phosphatidyltransferase (phosphatidylinositol synthase)	-1.6	1.4			2.8
CDK2	cyclin-dependent kinase 2	-2.3	-1.5			-1.6
CDK6	cyclin-dependent kinase 6	-3.0	-1.5			2.1
CDK7	cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)	2.1				-1.6
CDK8	cyclin-dependent kinase 8	-1.5				
CDK9	cyclin-dependent kinase 9 (CDC2-related kinase)	-7.3	1.7			10.9
CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	-1.6	1.6	1.7		3.6
CDKN3	cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)	-1.4	1.5			1.2
CEBPB	CCAAT/enhancer binding protein (C/EBP), beta	1.5	-1.5			-3.1
CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma	-1.3				-1.6
CEBPZ	CCAAT/enhancer binding protein zeta	-1.7	-1.5	-1.5	-1.8	-2.5
CENPA	centromere protein A	-1.3	1.7			1.4
CENPF	centromere protein F, 350/400ka (mitosin)	-2.3	1.5			2.3
CENTB1	centaurin, beta 1	-21.1				42.8
CENTB2	centaurin, beta 2	1.5	1.5		1.3	
CETN3	centrin, EF-hand protein, 3 (CDC31 homolog, yeast)	-1.5				
CFL1	cofilin 1 (non-muscle)	-1.6				1.3
CFLAR	CASP8 and FADD-like apoptosis regulator	3.8	2.1		1.5	

CHAF1B	chromatin assembly factor 1, subunit B (p60)	-1.7				-2.4
CHD3	chromodomain helicase DNA binding protein 3	-9.4	-1.3			5.0
CHEK1	CHK1 checkpoint homolog (S. pombe)	-1.8	-1.3			-2.1
CHES1	checkpoint suppressor 1	1.8	1.6	1.5		1.5
CHI3L2	chitinase 3-like 2	-3.1			-1.8	
CHP	calcium binding protein P22	2.4				1.6
CHRNA5	cholinergic receptor, nicotinic, alpha 5	-2.2				1.7
CHST10	carbohydrate sulfotransferase 10	2.3				-2.6
CHSY1	carbohydrate (chondroitin) synthase 1	1.8	2.5			-2.1
CHUK	conserved helix-loop-helix ubiquitous kinase	1.5				-1.5
CIAPIN1	cytokine induced apoptosis inhibitor 1	1.3	-1.6			-1.8
CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	10.5	2.8			-7.0
CKB	creatine kinase, brain	3.2				-5.0
CKS1B	CDC28 protein kinase regulatory subunit 1B	-1.6				-1.4
CKS2	CDC28 protein kinase regulatory subunit 2	-1.3	1.2			
CLASP1	cytoplasmic linker associated protein 1	1.5			1.7	1.8
CLASP2	cytoplasmic linker associated protein 2	-1.7	1.7			2.6
CLCN3	chloride channel 3	-3.0				3.5
CLEC11A	C-type lectin domain family 11, member A	1.5	1.4			-10.9
CLIC1	chloride intracellular channel 1	-1.3	1.3			
CLIC4	chloride intracellular channel 4	-2.2				2.0
CLK1	CDC-like kinase 1	1.5	1.7			1.6
CLSTN1	calsyntenin 1	1.3		1.3		-1.4
CLTA	clathrin, light chain (Lca)	1.4				-1.3
CLTB	clathrin, light chain (Lcb)	-2.0	-1.4			-1.3
CLTC	clathrin, heavy chain (Hc)	1.4			-1.5	-1.3
CNAP1	non-SMC condensin I complex, subunit D2	-2.7				2.2
CNNM2	cyclin M2	1.7				
CNOT4	CCR4-NOT transcription complex, subunit 4	-1.3	1.4			
CNOT8	CCR4-NOT transcription complex, subunit 8	-1.4				
CNP	2',3'-cyclic nucleotide 3' phosphodiesterase	-1.3		-1.3		
COBRA1	cofactor of BRCA1	-1.3				
COG5	component of oligomeric golgi complex 5	1.3	-1.3			
COMT	catechol-O-methyltransferase	-2.1				
COPA	coatamer protein complex, subunit alpha	1.2				1.9
COPB	coatamer protein complex, subunit beta 1	1.4				
COPB2	coatamer protein complex, subunit beta 2 (beta prime)	1.2				
COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	1.6	-1.2			-2.4
COPS3	COP9 constitutive photomorphogenic homolog subunit 3 (Arabidopsis)	-2.0	-1.2			
COPS6	COP9 constitutive photomorphogenic homolog subunit 6 (Arabidopsis)	-1.7	-1.5			-1.8
COPS7A	COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	-1.4				1.3
COPS8	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis)	-3.2				2.6

COX11	COX11 homolog, cytochrome c oxidase assembly protein (yeast)	4.1	-1.3			-2.9
COX6A1	cytochrome c oxidase subunit VIa polypeptide 1	-1.2				
COX8A	cytochrome c oxidase subunit 8A (ubiquitous)	-1.5				
CPD	carboxypeptidase D	25.6		1.4		-4.0
CPNE1	copine I	-1.5				2.1
CPNE3	copine III	-1.5				2.7
CPOX	coproporphyrinogen oxidase	1.8		1.5		-2.6
CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	2.3				-2.3
CPSF5	nudix (nucleoside diphosphate linked moiety X)-type motif 21	-1.8	-1.3			-2.2
CPSF6	cleavage and polyadenylation specific factor 6, 68kDa	-1.6				-2.0
CPT1A	carnitine palmitoyltransferase 1A (liver)	1.6				-2.0
CREB1	cAMP responsive element binding protein 1	-1.5	1.4			2.6
CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)	-10.0	1.3			14.0
CREBL2	cAMP responsive element binding protein-like 2	-2.6				3.0
CREBZF	CREB/ATF bZIP transcription factor	-1.5				-1.9
CREG1	cellular repressor of E1A-stimulated genes 1	1.8	-1.5	1.6		-2.3
CREM	cAMP responsive element modulator	7.7				-1.9
CRI1	EP300 interacting inhibitor of differentiation 1	1.9				-2.5
CRIP1	cysteine-rich protein 1 (intestinal)	-16.0				9.6
CROP	cisplatin resistance-associated overexpressed protein	1.9	-1.5			-1.7
CRTAP	cartilage associated protein	3.6	-2.2			-3.4
CRYZ	crystallin, zeta (quinone reductase)	-1.7	-1.4		-1.6	1.3
CSE1L	CSE1 chromosome segregation 1-like (yeast)	-1.6	-1.4			-2.5
CSK	c-src tyrosine kinase	-1.6		-1.8		-1.7
CSNK1A1	casein kinase 1, alpha 1	2.0	1.5			1.3
CSNK1D	casein kinase 1, delta	1.4	1.3			
CSNK1G2	casein kinase 1, gamma 2	-1.2				
CSNK2A1	casein kinase 2, alpha 1 polypeptide	1.5	-1.4			-2.0
CSNK2A2	casein kinase 2, alpha prime polypeptide	1.9	1.9			
CSNK2B	casein kinase 2, beta polypeptide	-1.3				
CSPG6	structural maintenance of chromosomes 3	2.0	-1.7		-1.6	-2.9
CST7	cystatin F (leukocystatin)	-26.4	2.4			190.4
CSTB	cystatin B (stefin B)	1.5				
CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa	1.6	1.3			-1.7
CSTF3	cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa	2.2				-4.0
CTBP1	C-terminal binding protein 1	-1.5	1.3	1.3	1.3	2.2
CTCF	CCCTC-binding factor (zinc finger protein)	-1.2				
CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	1.9	-1.3	1.4		-1.2
CTNNA1	catenin (cadherin-associated protein), alpha-like 1	-2.0			-1.3	
CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa	1.4	1.4			2.5
CTPS	CTP synthase	-1.5	-1.4			-2.4
CTR9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	1.4				-1.9

CTSB	cathepsin B	1.6	2.1			2.4
CTSC	--	2.7	-5.2	-1.5		-7.0
CTSH	cathepsin H	-1.4				
CUGBP1	CUG triplet repeat, RNA binding protein 1	-1.8	-1.3			-1.4
CUGBP2	CUG triplet repeat, RNA binding protein 2	5.7	2.4	2.0	1.8	1.7
CUL1	cullin 1	-1.3		1.7		
CUL2	cullin 2	3.6				-3.9
CUL4A	cullin 4A	1.5	1.4			-1.5
CUL5	cullin 5	1.4				
CUTL1	cut-like 1, CCAAT displacement protein (Drosophila)	-1.5	1.7			1.9
CXCR4	chemokine (C-X-C motif) receptor 4	-2.5	1.8	1.3	1.5	63.4
CXORF40A	chromosome X open reading frame 40A	-1.2				
CYB5	cytochrome b5 type A (microsomal)	-1.3	2.3			-1.5
CYB5-M	cytochrome b5 type B (outer mitochondrial membrane)	-1.4				
CYC1	cytochrome c-1	1.5	-1.6	-1.3		-4.4
CYCS	cytochrome c, somatic	4.9	-1.6	-1.6	-1.9	-13.5
CYFIP1	cytoplasmic FMR1 interacting protein 1	-2.0	2.3			2.9
CYFIP2	cytoplasmic FMR1 interacting protein 2	-44.2	-2.8		-1.3	50.3
CYP51A1	cytochrome P450, family 51, subfamily A, polypeptide 1	1.3			-1.4	-2.1
DAAM1	dishevelled associated activator of morphogenesis 1	-3.4	1.7			8.5
DAD1	defender against cell death 1	-4.1				2.7
DAG1	dystroglycan 1 (dystrophin-associated glycoprotein 1)	1.5				
DAP3	death associated protein 3	1.9		-1.4	-1.6	-1.7
DAPK1	death-associated protein kinase 1	3.4				-4.0
DAPK3	death-associated protein kinase 3	1.5	-1.3	1.2		-1.8
DARS	aspartyl-tRNA synthetase	1.3				-1.5
DATF1	death inducer-obliterator 1	1.3	1.5			1.8
DAZAP2	DAZ associated protein 2	-1.7				1.7
DBI	diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)	-1.9				1.5
DBN1	drebrin 1	-1.5		-1.5		
DCK	deoxycytidine kinase	-1.9	1.3			2.4
DCP2	DCP2 decapping enzyme homolog (S. cerevisiae)	-1.5	1.3			
DCTN1	dynactin 1 (p150, glued homolog, Drosophila)	1.3				1.2
DCTN2	dynactin 2 (p50)	1.4	1.5			1.6
DDB2	damage-specific DNA binding protein 2, 48kDa	-3.2				2.1
DDIT4	DNA-damage-inducible transcript 4	5.5	4.6	4.4		22.4
DDOST	dolichyl-diphosphooligosaccharide-protein glycosyltransferase	1.8				-1.9
DDT	D-dopachrome tautomerase	-1.9	1.3			1.6
DDX1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	1.2	-1.3			-1.8
DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	1.2	-2.1			-2.8
DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, S. cerevisiae)	-2.3	-1.5			-2.2
DDX17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17	7.2				-4.4

DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	-1.3	-1.7			-2.6
DDX21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	1.7	-2.1	-1.7		-3.9
DDX39	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	-1.3				
DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	-1.8			-1.4	2.0
DDX42	DEAD (Asp-Glu-Ala-Asp) box polypeptide 42	1.6				-1.6
DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	1.7	-1.5			-2.0
DECR1	2,4-dienoyl CoA reductase 1, mitochondrial	1.6				5.2
DEK	DEK oncogene (DNA binding)	-1.9				1.4
DEXI	dexamethasone-induced transcript	-1.5				1.6
DFFA	DNA fragmentation factor, 45kDa, alpha polypeptide	1.6	-2.0			-1.8
DGKD	diacylglycerol kinase, delta 130kDa	-2.5				3.2
DGKG	diacylglycerol kinase, gamma 90kDa	4.1			-4.6	-2.6
DHFR	dihydrofolate reductase	-1.7	-1.9			-2.5
DHPS	deoxyhypusine synthase	-1.5				
DHRS1	dehydrogenase/reductase (SDR family) member 1	2.3		1.7		-2.0
DHRS7	dehydrogenase/reductase (SDR family) member 7	3.4				-1.8
DHX15	DEAH (Asp-Glu-Ala-His) box polypeptide 15	-1.3	-1.6			-1.4
DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	-2.1	-1.7			1.8
DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	-1.4				2.3
DIAPH1	diaphanous homolog 1 (Drosophila)	-1.7	-1.4		-1.4	-1.5
DICER1	Dicer1, Dcr-1 homolog (Drosophila)	-1.6				1.8
DIP	death-inducing-protein	-2.3	-1.4		1.8	3.5
DLAT	dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex)	-1.6	-2.1			-2.2
DLEU1	deleted in lymphocytic leukemia, 1	1.5	-1.8			-2.0
DLG1	discs, large homolog 1 (Drosophila)	-1.5	-1.9			1.8
DLG5	discs, large homolog 5 (Drosophila)	2.2	2.0		1.3	3.1
DLG7	discs, large homolog 7 (Drosophila)	-1.3				1.8
DMXL1	Dmx-like 1	2.2	1.8			1.6
DMXL2	Dmx-like 2	1.7		1.6		-1.2
DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1	-1.7	-1.4	-1.3	-1.7	
DNAJA2	DnaJ (Hsp40) homolog, subfamily A, member 2	15.8				-25.2
DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	-1.9			-1.4	1.5
DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6	-1.7				2.0
DNAJC11	DnaJ (Hsp40) homolog, subfamily C, member 11	1.4	1.9	-1.2		-1.8
DNAJC13	DnaJ (Hsp40) homolog, subfamily C, member 13	2.0				
DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7	1.3	-1.4			-1.6
DNC12	dynein, cytoplasmic 1, intermediate chain 2	2.9	1.4			-1.5
DNPEP	aspartyl aminopeptidase	-4.5	-1.6	-1.2		1.6
DOC-1R	CDK2-associated protein 2	-2.0	2.0			2.5
DOCK2	dedicator of cytokinesis 2	1.8				-2.8
DOK1	docking protein 1, 62kDa (downstream of tyrosine kinase 1)	2.3				-2.3
DPH2L1	DPH1 homolog (S. cerevisiae)	-1.7				1.6

DPT	dermatopontin	-22.5				
DPYD	dihydropyrimidine dehydrogenase	-8.8				7.7
DPYSL2	dihydropyrimidinase-like 2	-4.2	3.1			3.7
DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)	-1.6				
DRAP1	DR1-associated protein 1 (negative cofactor 2 alpha)	-1.5	-2.2			
DSCR1	Down syndrome critical region gene 1	1.5	7.7	5.0	4.8	7.9
DST	dystonin	-8.3				15.8
DSTN	destrin (actin depolymerizing factor)	3.9				
DTX4	deltex 4 homolog (Drosophila)	-2.2				3.3
DTYMK	deoxythymidylate kinase (thymidylate kinase)	-1.9				1.2
DULLARD	dullard homolog (Xenopus laevis)	-1.4	1.8			1.4
DUSP10	dual specificity phosphatase 10	-1.4		2.7		1.9
DUSP3	dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)	6.4				-17.5
DUSP6	dual specificity phosphatase 6	15.8	1.7			-28.2
DVL3	dishevelled, dsh homolog 3 (Drosophila)	-1.6				1.9
DZIP3	zinc finger DAZ interacting protein 3	-1.3				2.5
E2F1	E2F transcription factor 1	-1.7			-1.2	-2.7
EBAG9	estrogen receptor binding site associated, antigen, 9	-1.8				2.5
EBP	emopamil binding protein (sterol isomerase)	-2.1		-1.2		
EDD1	E3 ubiquitin protein ligase, HECT domain containing, 1	-1.4	1.4	1.3	-1.4	1.9
EDEM1	ER degradation enhancer, mannosidase alpha-like 1	-1.5	-1.2			1.4
EED	embryonic ectoderm development	-1.9				1.2
EEF1A1	eukaryotic translation elongation factor 1 alpha 1	4.9				-5.1
EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	1.6				-1.3
EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	-1.6	-3.3	-1.7		-2.4
EEF2	eukaryotic translation elongation factor 2	1.3				
EFNB2	ephrin-B2	-5.9	-2.8			5.8
EHBP1	EH domain binding protein 1	1.4				-2.6
EHD1	EH-domain containing 1	1.6				-1.4
EI24	etoposide induced 2.4 mRNA	1.3	-1.5			-2.1
EIF1AX	eukaryotic translation initiation factor 1A, X-linked	-2.2	-1.5			-2.8
EIF2A	eukaryotic translation initiation factor 2A, 65kDa	1.3				1.2
EIF2C2	eukaryotic translation initiation factor 2C, 2	2.6	-1.6			-4.3
EIF2S1	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	-1.2	-1.6	-1.4	-1.4	-1.8
EIF2S3	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa	1.3				
EIF3S10	eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa	3.9	-1.3		-1.7	-5.4
EIF3S6	eukaryotic translation initiation factor 3, subunit 6 48kDa	-1.5	-1.6			
EIF3S7	eukaryotic translation initiation factor 3, subunit 7 zeta, 66/67kDa	1.3				-1.3
EIF3S8	eukaryotic translation initiation factor 3, subunit 8, 110kDa	-3.1	-1.4	-1.2		3.4
EIF3S9	eukaryotic translation initiation factor 3, subunit 9 eta, 116kDa	-1.2	-2.0	-1.5		-2.2
EIF4A2	eukaryotic translation initiation factor 4A, isoform 2	1.4				
EIF4B	eukaryotic translation initiation factor 4B	1.8	-2.4			-1.8

EIF4E	eukaryotic translation initiation factor 4E	-1.3				-1.4
EIF4E2	eukaryotic translation initiation factor 4E family member 2	-1.6	1.2			1.5
EIF5	eukaryotic translation initiation factor 5	1.2				-1.8
EIF5A	eukaryotic translation initiation factor 5A	-10.2	-2.0			3.5
EIF5B	eukaryotic translation initiation factor 5B	2.5	-1.6			-4.3
ELF1	E74-like factor 1 (ets domain transcription factor)	-1.8	1.4			2.7
ELF2	E74-like factor 2 (ets domain transcription factor)	-1.8				1.4
ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)	5.2				-2.4
ELMO1	engulfment and cell motility 1	3.6	2.1			
ELOVL5	ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	-1.6	1.3			1.8
ENTH	clathrin interactor 1	2.5	1.9			-1.5
ENTPD4	ectonucleoside triphosphate diphosphohydrolase 4	1.5	1.3			
EP400	E1A binding protein p400	1.3	1.4			
EPB41L2	erythrocyte membrane protein band 4.1-like 2	1.8				-1.9
EPIM	syntaxin 2	1.3				
EPM2A	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	-2.2				
EPOR	erythropoietin receptor	16.6				-6.1
EPRS	glutamyl-prolyl-tRNA synthetase	1.3	-1.7			-2.4
EPS15	epidermal growth factor receptor pathway substrate 15	1.6	1.8	1.3		1.5
ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)	-1.8	1.3	-1.3		
ERCC5	excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome))	-1.4				1.8
ERF	Ets2 repressor factor	2.1	-1.5			-2.5
ERH	enhancer of rudimentary homolog (Drosophila)	-1.2				
ERP29	endoplasmic reticulum protein 29	1.4	-1.3			-1.8
ESD	esterase D/formylglutathione hydrolase	2.3	1.7			-1.9
ETF1	eukaryotic translation termination factor 1	1.3	-1.6			-2.4
ETFA	electron-transfer-flavoprotein, alpha polypeptide (glutaric aciduria II)	-1.3				
ETHE1	ethylmalonic encephalopathy 1	1.6	-1.3			-1.6
ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	-29.1				26.5
ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)	-1.5	5.1	-1.3	-1.7	4.1
ETV6	ets variant gene 6 (TEL oncogene)	2.5	-1.6			-3.1
EXO1	exonuclease 1	-1.6	-2.1			-4.6
EXOSC8	exosome component 8	-2.4				
EXTL2	exostoses (multiple)-like 2	1.5	-2.0			-1.9
EZH1	enhancer of zeste homolog 1 (Drosophila)	1.3	-1.4			2.0
EZH2	enhancer of zeste homolog 2 (Drosophila)	-1.6				-1.3
F8A1	coagulation factor VIII-associated (intronic transcript) 1	1.6		1.2		-2.1
FABP5	fatty acid binding protein 5 (psoriasis-associated)	-2.2	-4.4			-2.5
FADS1	fatty acid desaturase 1	-1.5	-1.5		-1.9	-1.8
FADS2	fatty acid desaturase 2	-1.9	-2.0			
FADS3	fatty acid desaturase 3	-3.1		-1.2		5.6
FAH	fumarylacetoacetate hydrolase (fumarylacetoacetase)	1.6		-1.5		-2.8

FALZ	bromodomain PHD finger transcription factor	1.6	-1.5			-1.3
FAM38A	family with sequence similarity 38, member A	2.6	2.6			1.8
FAM89B	family with sequence similarity 89, member B	-2.5				5.2
FANCL	Fanconi anemia, complementation group L	1.6				-2.8
FARSLA	phenylalanine-tRNA synthetase-like, alpha subunit	1.6	-2.1	-1.9	-2.0	-4.1
FBL	fibrillarin	1.4	-1.2	-1.4	-1.4	-2.1
FBXO9	F-box protein 9	2.2	-1.4			-1.9
FBXW11	F-box and WD-40 domain protein 11	1.3	1.3			
FCHSD2	FCH and double SH3 domains 2	1.9	3.0			4.0
FDFT1	farnesyl-diphosphate farnesyltransferase 1	1.4				-1.2
FDPS	farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase)	-2.3				1.6
FEN1	flap structure-specific endonuclease 1	-1.3	-1.8			-2.9
FEZ2	fasciculation and elongation protein zeta 2 (zygin II)	1.5				1.6
FGF9	fibroblast growth factor 9 (glia-activating factor)	-45.7	-2.1			39.2
FGFR1	fibroblast growth factor receptor 1 (fms-related tyrosine kinase 2, Pfeiffer syndrome)	7.4		1.6		-1.6
FGFR1OP	FGFR1 oncogene partner	1.5				-2.7
FH	fumarate hydratase	-1.4	-2.1			-2.6
FHL1	four and a half LIM domains 1	-2.1	1.8	3.3	13.7	9.6
FIBP	fibroblast growth factor (acidic) intracellular binding protein	-1.8	-1.3			
FKBP1A	FK506 binding protein 1A, 12kDa	1.5	-1.3		1.3	-1.7
FKBP4	FK506 binding protein 4, 59kDa	3.0				-8.6
FKBP5	FK506 binding protein 5	7.0	21.4	6.6	4.4	13.7
FLII	flightless I homolog (Drosophila)	-1.4				1.8
FLJ12443	acyltransferase like 2	-1.6				
FLNA	filamin A, alpha (actin binding protein 280)	-2.2				3.1
FLNB	filamin B, beta (actin binding protein 278)	1.6				
FMR1	fragile X mental retardation 1	-2.3	1.4			2.8
FNBP1	formin binding protein 1	-17.0	-2.9			13.3
FNBP1L	formin binding protein 1-like	1.4	3.0	1.9		3.5
FNBP3	PRP40 pre-mRNA processing factor 40 homolog A (yeast)	2.2	-2.1			-2.4
FNBP4	formin binding protein 4	-1.4	-1.6			
FNTA	farnesyltransferase, CAAX box, alpha	1.4				-1.2
FOSL2	FOS-like antigen 2	7.1	4.0		1.4	-1.9
FOXJ2	forkhead box J2	-2.0				2.0
FOXK2	forkhead box K2	1.8			-1.4	-1.8
FOXO1	forkhead box O1	-3.5	1.4			2.2
FOXO3A	forkhead box O3A	1.7	2.7			2.3
FSCN1	fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)	1.7	1.6	-1.5		-3.9
FTH1	ferritin, heavy polypeptide 1	-2.0	1.5			2.9
FTL	ferritin, light polypeptide	1.9	-1.4			-2.3
FTSJ1	FtsJ homolog 1 (E. coli)	1.2	-1.3			-2.4
FUBP1	far upstream element (FUSE) binding protein 1	1.7	-1.8			-1.9

FUS	fusion (involved in t(12;16) in malignant liposarcoma)	-2.6	-1.5			1.5
FUSIP1	FUS interacting protein (serine/arginine-rich) 1	-1.5	-1.9			
FUT4	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)	1.3	1.7			
FUT8	fucosyltransferase 8 (alpha (1,6) fucosyltransferase)	-1.4				
FXR1	fragile X mental retardation, autosomal homolog 1	1.4	1.4			1.4
FYB	FYN binding protein (FYB-120/130)	11.8				-7.9
FYN	FYN oncogene related to SRC, FGR, YES	-8.6		1.2		2.0
FZD6	frizzled homolog 6 (Drosophila)	10.1	2.1	1.5		-2.9
FZR1	fizzy/cell division cycle 20 related 1 (Drosophila)	-1.9				2.3
G1P2	ISG15 ubiquitin-like modifier	-3.1				2.0
G3BP	GTPase activating protein (SH3 domain) binding protein 1	1.4	-2.2			-4.3
G3BP2	GTPase activating protein (SH3 domain) binding protein 2	1.3				-1.7
GABARAP	GABA(A) receptor-associated protein	-1.3				2.1
GABPB2	GA binding protein transcription factor, beta subunit 2	-1.7	1.5			1.8
GADD45B	growth arrest and DNA-damage-inducible, beta	1.3	1.5			1.4
GAK	cyclin G associated kinase	1.4				
GALC	galactosylceramidase	-2.1				1.5
GALK2	galactokinase 2	1.3				-1.7
GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)	2.0				-2.2
GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	-2.2	1.4			1.9
GAPD	glyceraldehyde-3-phosphate dehydrogenase	-1.2				1.3
GAPDHS	glyceraldehyde-3-phosphate dehydrogenase, spermatogenic	1.8				-2.4
GARS	glycyl-tRNA synthetase	1.9	-2.1	-1.4	-1.7	-4.3
GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	1.4	-2.4	-1.6		-4.2
GAS7	growth arrest-specific 7	-10.7	1.5			7.5
GATA3	GATA binding protein 3	-3.1				3.3
GBAS	glioblastoma amplified sequence	4.0				-3.2
GCAT	glycine C-acetyltransferase (2-amino-3-ketobutyrate coenzyme A ligase)	9.1	-1.4			-10.8
GCH1	GTP cyclohydrolase 1 (dopa-responsive dystonia)	-1.7	-1.7			1.5
GCLC	glutamate-cysteine ligase, catalytic subunit	2.0	1.7			-1.3
GCLM	glutamate-cysteine ligase, modifier subunit	-2.5	2.4			3.6
GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	1.3	-1.4			-1.5
GCSH	glycine cleavage system protein H (aminomethyl carrier)	2.1	-3.0	-1.6		-4.6
GDI1	GDP dissociation inhibitor 1	-1.6	1.4			2.4
GDI2	GDP dissociation inhibitor 2	1.7	1.4			
GEMIN4	gem (nuclear organelle) associated protein 4	-1.6			-1.5	-3.0
GF11	growth factor independent 1	65.2				-5.9
GFPT1	glutamine-fructose-6-phosphate transaminase 1	-2.1				
GGA3	golgi associated, gamma adaptin ear containing, ARF binding protein 3	2.0			-1.5	
GGH	gamma-glutamyl hydrolase (conjugase, foylpolgamma glutamyl hydrolase)	-2.7	1.2			1.3
GGPS1	geranylgeranyl diphosphate synthase 1	-1.5	1.2			-1.2
GIT2	G protein-coupled receptor kinase interactor 2	12.8				-2.8

GJA7	gap junction protein, alpha 7, 45kDa (connexin 45)	-13.5	1.6			43.1
GLA	galactosidase, alpha	2.3				-3.6
GLB1	galactosidase, beta 1	2.3		1.4	1.9	-1.9
GLMN	glomulin, FKBP associated protein	3.5				-2.2
GLO1	glyoxalase I	1.3	-1.5			-2.0
GLRX	glutaredoxin (thioltransferase)	-4.0	1.6	3.4		4.4
GLS	glutaminase	2.1	-2.1		1.7	-2.2
GLUL	glutamate-ammonia ligase (glutamine synthetase)	2.3	2.5	1.9		1.8
GMPS	guanine monphosphate synthetase	-1.4	-1.4			-2.1
GNA11	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)	1.6				-4.6
GNA13	guanine nucleotide binding protein (G protein), alpha 13	1.6				-1.5
GNA15	guanine nucleotide binding protein (G protein), alpha 15 (Gq class)	-3.2	1.4			
GNAQ	guanine nucleotide binding protein (G protein), q polypeptide	5.0	1.3			-1.6
GNAS	GNAS complex locus	-1.7	1.7			2.4
GNB1	guanine nucleotide binding protein (G protein), beta polypeptide 1	-1.4				1.7
GNB2	guanine nucleotide binding protein (G protein), beta polypeptide 2	-1.7	1.4			1.7
GNB5	guanine nucleotide binding protein (G protein), beta 5	-2.8	-1.3			
GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	-3.9			-1.4	2.5
GNL1	guanine nucleotide binding protein-like 1	-1.3				
GNPDA1	glucosamine-6-phosphate deaminase 1	11.5				-59.9
GNS	glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID)	2.8				-2.0
GOLGA2	golgi autoantigen, golgin subfamily a, 2	1.7				
GORASP2	golgi reassembly stacking protein 2, 55kDa	1.8	-1.3			-2.0
GOSR1	golgi SNAP receptor complex member 1	1.5				-1.7
GPS2	G protein pathway suppressor 2	-4.7				3.8
GPSM2	G-protein signalling modulator 2 (AGS3-like, C. elegans)	-1.8	1.6	1.7		2.7
GPSM3	G-protein signalling modulator 3 (AGS3-like, C. elegans)	-1.9				3.0
GPSN2	glycoprotein, synaptic 2	-1.3				-1.5
GPX1	glutathione peroxidase 1	1.7	1.7			
GPX4	glutathione peroxidase 4 (phospholipid hydroperoxidase)	1.8				-2.2
GPX7	glutathione peroxidase 7	1.9				-1.5
GRB10	growth factor receptor-bound protein 10	-12.4	-1.4			11.1
GRB2	growth factor receptor-bound protein 2	1.9	-1.8			-3.3
GREB1	GREB1 protein	8.1			2.6	-11.0
GREM1	gremlin 1, cysteine knot superfamily, homolog (<i>Xenopus laevis</i>)	-42.1				
GRHPR	glyoxylate reductase/hydroxypyruvate reductase	1.4	-1.6			-1.3
GRIK5	glutamate receptor, ionotropic, kainate 5	4.2				-14.5
GRK5	G protein-coupled receptor kinase 5	14.8	2.8			-3.8
GRK6	G protein-coupled receptor kinase 6	-3.3				2.2
GRLF1	glucocorticoid receptor DNA binding factor 1	1.4				-1.2
GSK3B	glycogen synthase kinase 3 beta	2.1	1.3			-2.3
GSPT1	G1 to S phase transition 1	-1.6	-1.2	-1.5	-1.8	-1.4

GSR	glutathione reductase	-1.6				1.2
GSTO1	glutathione S-transferase omega 1	1.8	-1.3			-3.0
GSTP1	glutathione S-transferase pi	-1.2				-1.7
GTF2A2	general transcription factor IIA, 2, 12kDa	-2.8	-1.2		1.5	1.6
GTF2B	general transcription factor IIB	-1.2				
GTF2E2	general transcription factor IIE, polypeptide 2, beta 34kDa	-1.5	-1.3	-1.4		
GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa	1.3	-1.3			-2.0
GTF2H2	general transcription factor IIH, polypeptide 2, 44kDa	2.1				-3.2
GTF2H4	general transcription factor IIH, polypeptide 4, 52kDa	1.7			-1.3	
GTF2I	general transcription factor II, i	-2.1				2.3
GTF3A	general transcription factor IIIA	-1.7	-1.4			-2.0
GTF3C1	general transcription factor IIIC, polypeptide 1, alpha 220kDa	-1.3				1.7
GTPBP6	GTP binding protein 6 (putative)	-2.2				1.8
GTSE1	G-2 and S-phase expressed 1	-1.7	1.6			2.0
GUSB	glucuronidase, beta	1.2				
GYPC	glycophorin C (Gerbich blood group)	1.8			2.8	-1.8
GYS1	glycogen synthase 1 (muscle)	1.5	-1.3			
H1F0	H1 histone family, member 0	8.1	2.4		2.5	-5.6
H1FX	H1 histone family, member X	-3.2		1.5	1.3	3.7
H2AFX	H2A histone family, member X	-2.6				1.3
H2AFY	H2A histone family, member Y	-1.9	-1.6			-2.8
H3F3A	H3 histone, family 3A	-1.2				1.3
H3F3B	H3 histone, family 3B (H3.3B)	4.1	1.3			-2.2
H41	CDV3 homolog (mouse)	1.3	-1.2			-1.4
H6PD	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	-2.4				
HADH2	hydroxysteroid (17-beta) dehydrogenase 10	-1.2				
HADHB	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit	1.8				-1.4
HAN11	WD repeat domain 68	1.8	-1.2			-1.7
HAT1	histone acetyltransferase 1	1.6				-4.0
HAX1	HCLS1 associated protein X-1	-1.3	-1.7		-1.3	-1.3
HBP1	HMG-box transcription factor 1	1.6	1.4		1.6	1.5
HCFC1	host cell factor C1 (VP16-accessory protein)	-1.5				1.2
HCLS1	hematopoietic cell-specific Lyn substrate 1	-1.6	-1.4			1.8
HDAC3	histone deacetylase 3	1.5				
HDAC4	histone deacetylase 4	2.6	-1.8			1.3
HDLBP	high density lipoprotein binding protein (vigilin)	-1.7	-1.6			
HELZ	helicase with zinc finger	1.5				-1.3
HERPUD1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	-2.1				2.1
HEXIM1	hexamethylene bis-acetamide inducible 1	4.5	1.8			-2.2
HGS	hepatocyte growth factor-regulated tyrosine kinase substrate	1.5				-1.7
HHEX	homeobox, hematopoietically expressed	3.4	-2.0			-5.4
HINT1	histidine triad nucleotide binding protein 1	1.3	1.4			

HIP1R	huntingtin interacting protein 1 related	-1.5	2.3			1.6
HIP2	huntingtin interacting protein 2	-1.6	-1.2			-2.2
HIPK3	homeodomain interacting protein kinase 3	1.3	1.5			1.5
HISPPD2A	histidine acid phosphatase domain containing 2A	-3.1				2.5
HIST2H2AA	histone cluster 2, H2aa3	-2.0				2.9
HIVEP1	human immunodeficiency virus type I enhancer binding protein 1	1.4	2.4			-1.5
HIVEP2	human immunodeficiency virus type I enhancer binding protein 2	-6.5				10.1
HK2	hexokinase 2	1.4	-3.1	-2.0		-2.3
HLA-A	major histocompatibility complex, class I, A	-2.5		1.5		2.7
HLA-B	major histocompatibility complex, class I, B	-3.4	1.2			3.7
HLA-DMB	major histocompatibility complex, class II, DM beta	-1.7				
HLA-F	major histocompatibility complex, class I, F	-3.0	2.2			4.7
HLA-G	HLA-G histocompatibility antigen, class I, G	-2.0	1.5	1.5	1.3	1.9
HMBS	hydroxymethylbilane synthase	-1.6				-1.9
HMGB1	high-mobility group box 1	-3.0				1.9
HMGCR	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	-1.9		-1.4		2.0
HMGCS1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	-3.5		-2.3	-1.5	2.4
HMMR	hyaluronan-mediated motility receptor (RHAMM)	-1.5	1.8			3.3
HNRPA0	heterogeneous nuclear ribonucleoprotein A0	1.5				-1.5
HNRPA1	heterogeneous nuclear ribonucleoprotein A1	1.9	1.4			-1.8
HNRPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	5.0				-2.4
HNRPA3	heterogeneous nuclear ribonucleoprotein A3	1.8	-1.4			-2.4
HNRPAB	heterogeneous nuclear ribonucleoprotein A/B	-1.4	-1.6	-1.5	-1.4	-1.8
HNRPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)	-1.2	-1.5			-1.9
HNRPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	3.1				-1.8
HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	1.7	-1.6			-2.4
HNRPF	heterogeneous nuclear ribonucleoprotein F	1.3				-2.5
HNRPH1	heterogeneous nuclear ribonucleoprotein H1 (H)	-2.9	1.3			2.1
HNRPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)	-1.4				-1.3
HNRPL	heterogeneous nuclear ribonucleoprotein L	-1.4	-2.0			1.3
HNRPM	heterogeneous nuclear ribonucleoprotein M	1.8	1.8			-2.2
HNRPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	-1.4	-1.4			-2.9
HNRPUL1	heterogeneous nuclear ribonucleoprotein U-like 1	-1.4				3.4
HOMER1	homer homolog 1 (Drosophila)	-2.3				
HOXA9	homeobox A9	-91.3				194.0
HRAS	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	-1.8		-1.3		
HRB	HIV-1 Rev binding protein	-1.7	1.5			3.8
HRMT1L2	protein arginine methyltransferase 1	-1.2	-2.6		-1.7	-2.6
HS2ST1	heparan sulfate 2-O-sulfotransferase 1	1.8				-1.4
HS6ST1	heparan sulfate 6-O-sulfotransferase 1	1.3	1.8		2.2	1.5
HSBP1	heat shock factor binding protein 1	-1.4	-1.3			
HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4	2.0	1.9			2.0

HSF2	heat shock transcription factor 2	1.2				
HSPA4L	heat shock 70kDa protein 4-like	25.8				-42.0
HSPA5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)	1.6			-1.5	-3.2
HSPB1	heat shock 27kDa protein 1	-2.7	-1.3			1.6
HSPCA	heat shock protein 90kDa alpha (cytosolic), class A member 1	-1.2			-1.2	
HSPCB	heat shock protein 90kDa alpha (cytosolic), class B member 1	1.4	-2.0	-1.4	-1.3	-1.8
HTATSF1	HIV-1 Tat specific factor 1	1.4				-2.0
HTR7	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)	-1.4				
HUWE1	HECT, UBA and WWE domain containing 1	1.4				-1.3
HYOU1	hypoxia up-regulated 1	1.8	-1.7			-2.3
IARS	isoleucine-tRNA synthetase	-1.4	-2.2	-1.6		-3.8
IARS2	isoleucine-tRNA synthetase 2, mitochondrial	1.4	-1.2			-1.4
IBRDC3	IBR domain containing 3	-2.0				2.3
IBTK	inhibitor of Bruton agammaglobulinemia tyrosine kinase	1.5	1.6			-1.4
ICAM2	intercellular adhesion molecule 2	-17.5	-2.4	-1.8	-1.7	3.3
ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	5.8	3.0	1.8		3.3
ID3	inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	-33.8	-1.9			
IDE	insulin-degrading enzyme	1.4				-1.7
IDH1	isocitrate dehydrogenase 1 (NADP+), soluble	-1.3	-1.6			1.8
IDH2	isocitrate dehydrogenase 2 (NADP+), mitochondrial	-1.4	-1.4			-2.3
IDH3A	isocitrate dehydrogenase 3 (NAD+) alpha	-1.6	-1.7	-1.5	-1.5	-2.4
IDH3B	isocitrate dehydrogenase 3 (NAD+) beta	1.5				-2.1
IDI1	isopentenyl-diphosphate delta isomerase 1	1.5	1.7			2.1
IDS	iduronate 2-sulfatase (Hunter syndrome)	-1.6				1.5
IER2	immediate early response 2	1.6			-1.4	-2.7
IFI16	interferon, gamma-inducible protein 16	2.0	2.4	-1.3		-1.3
IFITM1	interferon induced transmembrane protein 1 (9-27)	4.6	3.2			-14.3
IFITM2	interferon induced transmembrane protein 2 (1-8D)	-3.1	2.2			1.6
IFNAR2	interferon (alpha, beta and omega) receptor 2	-2.9				
IFNGR1	interferon gamma receptor 1	5.7	3.3	1.7		2.6
IGF2R	insulin-like growth factor 2 receptor	1.3	1.7			1.7
IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)	-2.6	1.3			3.7
IGLL1	immunoglobulin lambda-like polypeptide 1	-44.6	-1.2	-1.4		9.6
IHPK1	inositol hexaphosphate kinase 1	1.8	-1.4			-1.7
IKBKG	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma	-1.5				1.6
IL27RA	interleukin 27 receptor, alpha	20.9				-7.5
IL2RG	interleukin 2 receptor, gamma (severe combined immunodeficiency)	-1.4	-1.4			
IL7R	interleukin 7 receptor	-56.6	-3.1	8.3	6.3	43.1
ILF3	interleukin enhancer binding factor 3, 90kDa	1.7	-2.2	-1.3		-4.0
ILK	integrin-linked kinase	1.4		1.3		
IMMT	inner membrane protein, mitochondrial (mitofilin)	1.4				-1.6
IMPA1	inositol(myo)-1(or 4)-monophosphatase 1	-1.7	1.2			2.3

IMPA2	inositol(myo)-1(or 4)-monophosphatase 2	1.8	-12.4			-7.9
IMPDH1	IMP (inosine monophosphate) dehydrogenase 1	-2.0		-1.6	-1.4	
IMPDH2	IMP (inosine monophosphate) dehydrogenase 2	1.3	-1.4		-1.5	-1.5
ING3	inhibitor of growth family, member 3	-1.9	1.3			3.0
INPP1	inositol polyphosphate-1-phosphatase	1.4	2.7	3.5	17.6	13.6
INPP5D	inositol polyphosphate-5-phosphatase, 145kDa	-1.6	2.0			1.5
INSIG1	insulin induced gene 1	-5.5	1.7			3.7
IPO7	importin 7	1.5	-1.7	-1.4		-4.6
IQCB1	IQ motif containing B1	-1.3			-1.5	-1.5
IQGAP1	IQ motif containing GTPase activating protein 1	-2.4	2.2			4.4
IRAK1	interleukin-1 receptor-associated kinase 1	-1.3				
IRAK1BP1	interleukin-1 receptor-associated kinase 1 binding protein 1	-1.6	-3.0			1.6
IREB2	iron-responsive element binding protein 2	1.5				-1.9
IRF2	interferon regulatory factor 2	-2.3				2.2
IRF3	interferon regulatory factor 3	-1.2				
IRS1	insulin receptor substrate 1	-4.8	1.5			7.7
ITCH	itchy homolog E3 ubiquitin protein ligase (mouse)	2.0	1.8			1.6
ITGA6	integrin, alpha 6	6.1	7.2	5.0	2.4	-1.9
ITGAE	integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)	-2.9	1.5			3.1
ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	3.1	1.4			-2.1
ITGB1BP1	integrin beta 1 binding protein 1	-1.2				
ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	2.6	-5.6			-8.7
ITM2A	integral membrane protein 2A	64.4				-138.3
ITM2B	integral membrane protein 2B	1.7	2.0			1.9
ITPKB	inositol 1,4,5-trisphosphate 3-kinase B	-4.6				1.7
ITPR1	inositol 1,4,5-trisphosphate receptor, type 1	3.8	2.4			-18.1
ITPR2	inositol 1,4,5-trisphosphate receptor, type 2	4.3	1.8	1.5	1.5	-2.4
ITSN1	intersectin 1 (SH3 domain protein)	-3.8	-1.3			8.7
IVNS1ABP	influenza virus NS1A binding protein	-1.3	-1.3			-1.9
JAK1	Janus kinase 1 (a protein tyrosine kinase)	1.9	1.8	2.2	2.6	3.4
JAM3	junctional adhesion molecule 3	12.9		2.4	3.6	-12.3
JARID1A	jumonji, AT rich interactive domain 1A	-2.3	1.2			3.7
JARID1B	jumonji, AT rich interactive domain 1B	37.6				-8.0
JARID2	jumonji, AT rich interactive domain 2	-1.4		-1.3		1.9
JMJD1A	jumonji domain containing 1A	1.6				
JMJD1C	jumonji domain containing 1C	-2.0	1.9			3.6
JRK	jerky homolog (mouse)	2.1				-1.8
JUN	jun oncogene	42.1	18.9	4.4		-6.2
JUND	jun D proto-oncogene	1.3	1.8			1.4
KAB	centrosomal protein 170kDa	3.8	1.2			-4.0
KATNB1	katanin p80 (WD repeat containing) subunit B 1	-1.4	-2.1			
KCNN4	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4	23.1	-13.3			-19.5

LAPTM5	lysosomal associated multispinning membrane protein 5	-4.3	2.0			10.9
LARS2	leucyl-tRNA synthetase 2, mitochondrial	-1.2	-1.5			-1.4
LASP1	LIM and SH3 protein 1	1.6				
LCK	lymphocyte-specific protein tyrosine kinase	-49.3			-1.7	18.5
LCP1	lymphocyte cytosolic protein 1 (L-plastin)	-4.1	-2.5			7.2
LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	1.6	-2.4			-2.2
LDB1	LIM domain binding 1	1.7	-1.2			-1.5
LDLR	low density lipoprotein receptor (familial hypercholesterolemia)	-3.6	-1.3			3.0
LEF1	lymphoid enhancer-binding factor 1	-288.8	-1.3	1.5		826.7
LEPR	leptin receptor	1.8	2.2			4.6
LETMD1	LETM1 domain containing 1	3.1				-7.5
LGALS1	lectin, galactoside-binding, soluble, 1 (galectin 1)	-22.2	2.9			82.1
LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein	-4.3	-2.3			2.8
LIG4	ligase IV, DNA, ATP-dependent	1.9	1.8			
LIMS1	LIM and senescent cell antigen-like domains 1	1.3	1.3			3.7
LIPA	lipase A, lysosomal acid, cholesterol esterase (Wolman disease)	1.2	-2.0			
LMAN1	lectin, mannose-binding, 1	1.6		-1.5		-15.2
LMNB1	lamin B1	-2.0				
LMO2	LIM domain only 2 (rhombotin-like 1)	7.9	4.4			-6.9
LNK	SH2B adaptor protein 3	1.3	-1.2			-2.8
LOC51035	unknown protein LOC51035	1.3			1.5	
LOC93081	chromosome 13 open reading frame 27	2.0				-1.4
LPIN1	lipin 1	-1.6		1.3		2.3
LPXN	leupaxin	-3.2	-1.7			1.7
LRBA	LPS-responsive vesicle trafficking, beach and anchor containing	1.4	-2.1			-1.6
LRCH4	leucine-rich repeats and calponin homology (CH) domain containing 4	-1.9	1.9			4.1
LRMP	lymphoid-restricted membrane protein	-18.6	-1.4			7.8
LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	-1.6	-2.1	-2.2	-2.8	-2.5
LRPAP1	low density lipoprotein receptor-related protein associated protein 1	3.2				-2.1
LRPPRC	leucine-rich PPR-motif containing	1.7	-5.1	-1.8	-1.7	-2.8
LRRFIP1	leucine rich repeat (in FLII) interacting protein 1	-6.0	2.5			11.3
LSM1	LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae)	2.2				
LSM4	LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)	-1.6	-1.4			-1.9
LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	2.9				-4.5
LSM7	LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae)	-1.5	-1.5			-1.4
LTA4H	leukotriene A4 hydrolase	2.6				-2.9
LTK	leukocyte tyrosine kinase	-2.3				2.4
LY6E	lymphocyte antigen 6 complex, locus E	2.0				-12.6
LYL1	lymphoblastic leukemia derived sequence 1	3.5			1.4	-6.7
LYPLA1	lysophospholipase I	-1.3	1.3			1.2
M11S1	GPI-anchored membrane protein 1	-2.0	-1.3			-1.5
MAC30	transmembrane protein 97	1.4	-3.0	-1.3		-3.2

MACF1	microtubule-actin crosslinking factor 1	-1.5	-1.3			2.7
MAD2L1	MAD2 mitotic arrest deficient-like 1 (yeast)	-2.0				
MAG	myelin associated glycoprotein	-40.4	-2.3			2.0
MAGED1	melanoma antigen family D, 1	2.4	-2.1			-4.1
MAGOH	mago-nashi homolog, proliferation-associated (Drosophila)	-1.2				-1.5
MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1	-1.7	-1.7			2.2
MAN2A1	mannosidase, alpha, class 2A, member 1	2.5	1.7			-1.9
MAN2A2	mannosidase, alpha, class 2A, member 2	8.4	1.3			-4.8
MAN2B1	mannosidase, alpha, class 2B, member 1	2.4				-2.9
MAP2K1	mitogen-activated protein kinase kinase 1	1.5	1.9	1.5	1.7	2.1
MAP2K2	mitogen-activated protein kinase kinase 2	1.3				-1.6
MAP2K3	mitogen-activated protein kinase kinase 3	-2.3				1.9
MAP2K4	mitogen-activated protein kinase kinase 4	-1.4				1.7
MAP2K6	mitogen-activated protein kinase kinase 6	-2.5				
MAP3K11	mitogen-activated protein kinase kinase kinase 11	1.3				-1.7
MAP3K7	mitogen-activated protein kinase kinase kinase 7	1.3				
MAP3K7IP2	mitogen-activated protein kinase kinase kinase 7 interacting protein 2	-1.4	1.5			2.1
MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1	-2.6	-2.7			2.4
MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4	-1.5	1.7			1.7
MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	1.9	2.2			
MAPK1	mitogen-activated protein kinase 1	-1.4	2.3			2.0
MAPK14	mitogen-activated protein kinase 14	4.1			1.4	-2.1
MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3	10.5	-1.5	-1.4		-20.4
MAPKAPK5	mitogen-activated protein kinase-activated protein kinase 5	-1.6				
MAPRE1	microtubule-associated protein, RP/EB family, member 1	-1.4	1.5			1.6
MAPRE2	microtubule-associated protein, RP/EB family, member 2	-3.4	-2.5			3.0
MARCH7	membrane-associated ring finger (C3HC4) 7	2.3	2.1			
MARCKSL1	MARCKS-like 1	-1.6	-1.4		-1.6	
MARK3	MAP/microtubule affinity-regulating kinase 3	1.5				
MARS	methionine-tRNA synthetase	-1.5	-2.2			-2.2
MAX	MYC associated factor X	-1.2	-1.7			
MAZ	MYC-associated zinc finger protein (purine-binding transcription factor)	-3.2	-1.7			1.7
MBD1	methyl-CpG binding domain protein 1	1.3				-1.8
MBD2	methyl-CpG binding domain protein 2	-1.6				1.3
MBD3	methyl-CpG binding domain protein 3	-1.6	-1.4			
MBD4	methyl-CpG binding domain protein 4	1.7				-2.2
MBNL1	muscleblind-like (Drosophila)	-4.4	2.0			9.2
MCCC2	methylcrotonoyl-Coenzyme A carboxylase 2 (beta)	1.4	-1.5			-2.1
MCFD2	multiple coagulation factor deficiency 2	1.6				-1.7
MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	1.4	1.7	1.2		1.3
MCM3	MCM3 minichromosome maintenance deficient 3 (S. cerevisiae)	-1.4	-3.1		-1.3	-4.2
MCM4	MCM4 minichromosome maintenance deficient 4 (S. cerevisiae)	-2.1	-3.3			-6.9

MCM5	MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (<i>S. cerevisiae</i>)	-1.5	-1.5			-3.2
MCM6	minichromosome maintenance deficient 6 homolog (<i>S. cerevisiae</i>)	1.3	-2.1			-6.8
MCM7	MCM7 minichromosome maintenance deficient 7 (<i>S. cerevisiae</i>)	-1.9	-1.3			-2.7
MCP	CD46 molecule, complement regulatory protein	1.6	1.4			
MCRS1	microspherule protein 1	-1.7				
MDC1	mediator of DNA damage checkpoint 1	-4.7				2.0
MDH1	malate dehydrogenase 1, NAD (soluble)	1.9	-1.3			-2.2
MDH2	malate dehydrogenase 2, NAD (mitochondrial)	-2.3	-1.5			3.7
MDM4	Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse)	-2.4	2.2			2.5
MED12	mediator of RNA polymerase II transcription, subunit 12 homolog (<i>S. cerevisiae</i>)	1.4				
MED6	mediator of RNA polymerase II transcription, subunit 6 homolog (<i>S. cerevisiae</i>)	-1.4				
MED8	mediator of RNA polymerase II transcription, subunit 8 homolog (<i>S. cerevisiae</i>)	1.7				
MEF2A	MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A)	-3.6	1.7			11.0
MEF2D	MADS box transcription enhancer factor 2, polypeptide D (myocyte enhancer factor 2D)	-5.7				2.0
MEIS2	Meis1, myeloid ecotropic viral integration site 1 homolog 2 (mouse)	3.6	-2.1			-4.4
MELK	maternal embryonic leucine zipper kinase	-1.3	1.4	1.4		
MEN1	multiple endocrine neoplasia I	1.3	-1.5			-1.3
MEP50	WD repeat domain 77	-1.8	-1.5	-1.7		-1.4
MFAP1	microfibrillar-associated protein 1	-1.6	-1.4			
MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	3.0	-1.8			-9.2
MGA	MAX gene associated	3.0	-1.8			-7.2
MGC17330	HGFL gene	34.8	7.3	7.3	5.5	12.3
MGC5508	transmembrane protein 109	-1.4	-1.7	-1.4	-1.6	-1.5
MGEA5	meningioma expressed antigen 5 (hyaluronidase)	1.7	1.3			1.9
MICB	MHC class I polypeptide-related sequence B	-1.4				
MINA	MYC induced nuclear antigen	-1.2	-1.7			-1.9
MINPP1	multiple inositol polyphosphate histidine phosphatase, 1	1.6				-1.7
MIR16	membrane interacting protein of RGS16	2.1	-1.4			-2.9
MKI67	antigen identified by monoclonal antibody Ki-67	-2.2	2.1			2.2
MKL1	megakaryoblastic leukemia (translocation) 1	1.5	-1.5			-1.6
MKNK1	MAP kinase interacting serine/threonine kinase 1	1.3			1.9	1.3
MKRN1	makorin, ring finger protein, 1	-1.5				2.1
MLC1	megalencephalic leukoencephalopathy with subcortical cysts 1	1.7			-1.5	-5.1
MLH3	mutL homolog 3 (<i>E. coli</i>)	2.2	-1.3			-2.4
MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>)	1.8	-1.8			2.0
MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>); translocated to, 10	2.7				-2.2
MMS19L	MMS19-like (MET18 homolog, <i>S. cerevisiae</i>)	1.7			-1.3	-1.4
MNT	MAX binding protein	-1.5				
MOBK1B	MOB1, Mps One Binder kinase activator-like 1B (yeast)	-1.6				1.4
MONDOA	MLX interacting protein	1.5	1.7			
MORF4L2	mortality factor 4 like 2	1.2				
MPG	N-methylpurine-DNA glycosylase	-4.1				4.1

MPHOSPH1	M-phase phosphoprotein 1	1.9				-3.2
MPHOSPH6	M-phase phosphoprotein 6	-1.3	-1.9			-2.3
MPP1	membrane protein, palmitoylated 1, 55kDa	-1.9	-1.3			
MPP6	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	38.6				-21.9
MPZL1	myelin protein zero-like 1	-7.5	-1.8			9.8
MRC2	mannose receptor, C type 2	2.0				-8.0
MRCL3	myosin regulatory light chain MRCL3	-2.0	2.2			5.8
M-RIP	myosin phosphatase-Rho interacting protein	-5.4	1.2			26.4
MRPS12	mitochondrial ribosomal protein S12	-1.5		-1.4	-1.7	-1.7
MSH2	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	-1.5	-1.6		-1.5	-1.8
MSH6	mutS homolog 6 (E. coli)	-2.5	-2.7	-1.2	-1.7	-2.4
MSN	moesin	1.4	1.2			1.7
MT1E	metallothionein 1E (functional)	1.8	2.3		2.1	
MT1H	metallothionein 1H	1.4	3.0		2.1	1.3
MT1X	metallothionein 1X	1.6	1.8			1.7
MT2A	metallothionein 2A	3.2	3.0			1.2
MTA1	metastasis associated 1	1.4	-1.4			-1.6
MTCP1	mature T-cell proliferation 1	-1.4				
MTHFD1	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methylenetetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase	1.5	-2.2	-1.4	-1.5	-5.0
MTHFS	5,10-methylenetetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	-1.4			1.3	
MTM1	myotubularin 1	2.5				-2.5
MTMR2	myotubularin related protein 2	-1.2	-1.3			
MTMR3	myotubularin related protein 3	-1.4	1.5			1.9
MTMR6	myotubularin related protein 6	-1.4	1.7			1.5
MTX2	metaxin 2	1.3				-2.1
MUT	methylmalonyl Coenzyme A mutase	-1.6				2.0
MXI1	MAX interactor 1	6.4	-1.7	-2.7		-6.2
MYB	v-myb myeloblastosis viral oncogene homolog (avian)	2.2	1.8			-2.0
MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	1.6	-2.8	-3.8	-3.6	-4.8
MYCBP	c-myc binding protein	1.3	-1.2			-1.6
MYCBP2	MYC binding protein 2	-1.5	-1.4			
MYH10	myosin, heavy chain 10, non-muscle	-3.7	-1.3			3.8
MYH9	myosin, heavy chain 9, non-muscle	-1.8			1.6	2.2
MYL6B	myosin, light chain 6B, alkali, smooth muscle and non-muscle	-1.7				
MYO1B	myosin IB	3.5	2.3	11.8		-6.5
MYO5A	myosin VA (heavy chain 12, myosin)	-8.2				6.2
MYST1	MYST histone acetyltransferase 1	-1.9				2.3
MYST4	MYST histone acetyltransferase (monocytic leukemia) 4	2.2	-1.9			-2.6
NACA	nascent-polypeptide-associated complex alpha polypeptide	1.3				-1.9
NAGA	N-acetylgalactosaminidase, alpha-	1.6				-2.4
NAP1L1	nucleosome assembly protein 1-like 1	1.9	-1.2	-1.3		-2.9
NAP1L4	nucleosome assembly protein 1-like 4	-1.5				-1.3

NAPA	N-ethylmaleimide-sensitive factor attachment protein, alpha	-1.5				
NAT1	N-acetyltransferase 1 (arylamine N-acetyltransferase)	1.2	1.3			
NBL1	neuroblastoma, suppression of tumorigenicity 1	2.3				-3.0
NBR1	neighbor of BRCA1 gene 1	2.6	1.5			-1.2
NBS1	nibrin	-1.6	-1.2	1.9	1.7	1.8
NCBP1	nuclear cap binding protein subunit 1, 80kDa	-1.3	-1.2			
NCF4	neutrophil cytosolic factor 4, 40kDa	-1.9	-1.5			1.6
NCK1	NCK adaptor protein 1	1.7	1.5	1.4	2.3	
NCKAP1	NCK-associated protein 1	6.0				-5.9
NCKAP1L	NCK-associated protein 1-like	1.3		1.4		
NCL	nucleolin	-1.6	-1.9	-1.3		-1.2
NCOA3	nuclear receptor coactivator 3	-1.4	2.1			3.8
NCOA4	nuclear receptor coactivator 4	1.9	1.3	1.5		-1.4
NCSTN	nicastrin	1.9				
NDRG1	N-myc downstream regulated gene 1	9.2	3.1	1.6		2.3
NDUFA5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa	-2.4				1.9
NDUFA9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa	-2.1				
NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	-1.9	-1.5			
NDUFAF1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1	-3.0	-1.8		-1.2	2.5
NDUFB3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa	1.2				-1.8
NDUFB5	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa	1.7				-1.8
NDUFB7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	-1.3	1.9			
NDUFB8	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	1.2				-2.1
NDUFC1	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa	1.4				-2.0
NDUFS1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	-1.6	-1.5			1.4
NDUFS2	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	1.9				-1.7
NDUFS5	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)	-1.9	-1.5			
NDUFS6	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)	-1.5				-1.8
NDUFV1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa	-1.6	-1.4			-2.0
NECAP1	NECAP endocytosis associated 1	-1.3	-1.3			1.6
NEDD4	neural precursor cell expressed, developmentally down-regulated 4	2.8				-3.0
NEK1	NIMA (never in mitosis gene a)-related kinase 1	-1.5	-2.4			
NEK2	NIMA (never in mitosis gene a)-related kinase 2	-1.9	1.5			2.1
NF2	neurofibromin 2 (bilateral acoustic neuroma)	-1.3				
NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	-2.4	-1.3			
NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	-1.8	-1.4	-1.4	-1.9	
NFE2L1	nuclear factor (erythroid-derived 2)-like 1	1.6			-1.4	-1.5
NFE2L2	nuclear factor (erythroid-derived 2)-like 2	2.2	1.3			-2.1
NFIC	nuclear factor I/C (CCAAT-binding transcription factor)	5.9	-1.9			-8.4
NFIL3	nuclear factor, interleukin 3 regulated	-2.5	5.0	6.0	3.6	19.1
NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	-1.5				1.7
NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	1.9	2.5	3.0	2.8	5.5

NFRKB	nuclear factor related to kappaB binding protein	2.2				-6.3
NFYA	nuclear transcription factor Y, alpha	1.6				-1.9
NFYB	nuclear transcription factor Y, beta	-1.6				1.3
NFYC	nuclear transcription factor Y, gamma	-1.4	-1.3			
NKTR	natural killer-tumor recognition sequence	2.0				
NMB	neuromedin B	1.4				-2.0
NME6	non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase)	1.6				-1.6
NMI	N-myc (and STAT) interactor	1.2				-1.8
NNT	nicotinamide nucleotide transhydrogenase	1.3				-1.3
NOLA2	nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs)	-1.5	-1.8			-2.0
NOLC1	nucleolar and coiled-body phosphoprotein 1	1.5	-2.0	-2.1		-3.9
NPC2	Niemann-Pick disease, type C2	1.8		1.3		
NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	1.2	-1.9			-2.6
NPM3	nucleophosmin/nucleoplasmin, 3	2.5		-1.4		-4.8
NQO2	NAD(P)H dehydrogenase, quinone 2	2.2	-1.5			-3.4
NR2C1	nuclear receptor subfamily 2, group C, member 1	1.6	1.3			
NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	-1.8	3.1	4.2	2.1	6.5
NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog	-1.4				1.8
NRD1	nardilysin (N-arginine dibasic convertase)	1.7				-1.6
NRIP1	nuclear receptor interacting protein 1	-1.4	1.5			
NSF	N-ethylmaleimide-sensitive factor	1.4	-1.3			-1.8
NSFL1C	NSFL1 (p97) cofactor (p47)	1.5	1.5			-2.2
NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor	-1.3	-2.7			
NSUN5C	NOL1/NOP2/Sun domain family, member 5C	-1.7				1.2
NT5C2	5'-nucleotidase, cytosolic II	2.3	1.5			-1.5
NTHL1	nth endonuclease III-like 1 (E. coli)	-2.2	-1.7	-1.7		
NUBP1	nucleotide binding protein 1 (MinD homolog, E. coli)	-1.9				
NUCB2	nucleobindin 2	1.3	-1.3			-3.1
NUDC	nuclear distribution gene C homolog (A. nidulans)	-1.2	-1.5			-2.1
NUDT1	nudix (nucleoside diphosphate linked moiety X)-type motif 1	-2.3				1.8
NUDT3	nudix (nucleoside diphosphate linked moiety X)-type motif 3	1.9	-1.2			-3.0
NUFIP1	nuclear fragile X mental retardation protein interacting protein 1	-1.8	-1.8			-2.2
NUMA1	nuclear mitotic apparatus protein 1	-2.1				1.9
NUP153	nucleoporin 153kDa	-2.0	-1.4	-1.5		1.4
NUP155	nucleoporin 155kDa	-1.5				-2.3
NUP205	nucleoporin 205kDa	-1.2	-1.5			-1.3
NUP210	nucleoporin 210kDa	-3.4	-1.7			-1.5
NUP50	nucleoporin 50kDa	-1.3				
NUP62	nucleoporin 62kDa	-1.4		-1.4		-2.6
NUP88	nucleoporin 88kDa	-2.2				
NUP98	nucleoporin 98kDa	-1.7	-2.0		-1.3	1.4
NUPL1	nucleoporin like 1	-2.9				

NUPL2	nucleoporin like 2	3.8								-3.5
NUTF2	nuclear transport factor 2	-1.5	-1.6							
NXF1	nuclear RNA export factor 1	1.3								
OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa	-3.2	-2.8							2.9
OAZ1	ornithine decarboxylase antizyme 1	-1.3	1.4							1.3
OAZIN	antizyme inhibitor 1	-2.2								1.9
ODC1	ornithine decarboxylase 1	-1.2	-1.5	-2.1				-2.2		-6.6
OGDH	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)	1.8	-1.7							-2.7
OGG1	8-oxoguanine DNA glycosylase	-3.9						1.4		6.2
OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	2.0	1.3					2.0		2.3
OIP5	Opa interacting protein 5	-2.6								1.7
OPA1	optic atrophy 1 (autosomal dominant)	1.5								-1.6
ORC1L	origin recognition complex, subunit 1-like (yeast)	1.7								-22.9
ORC2L	origin recognition complex, subunit 2-like (yeast)	2.6								-3.0
ORC3L	origin recognition complex, subunit 3-like (yeast)	1.3								-1.8
ORC5L	origin recognition complex, subunit 5-like (yeast)	1.3		-1.3				-1.5		-1.9
OSBP	oxysterol binding protein	1.4								1.7
OSBPL8	oxysterol binding protein-like 8	-1.3								1.4
OSTF1	osteoclast stimulating factor 1	-1.3	1.2							1.6
OXSR1	oxidative-stress responsive 1	1.3								-1.7
P2RX4	purinergic receptor P2X, ligand-gated ion channel, 4	2.0								
P2RX5	purinergic receptor P2X, ligand-gated ion channel, 5	-2.0	5.5					2.7		6.6
P4HA1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I	3.0				-1.3				-1.5
P4HB	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide	3.7						1.5		-3.0
PABPC1	poly(A) binding protein, cytoplasmic 1	-2.2	-1.4							1.7
PABPN1	poly(A) binding protein, nuclear 1	1.6	-1.3							-1.5
PAFAH1B1	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa	-2.4	1.2							2.9
PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	1.7	-3.3	-1.7						-12.5
PAI-RBP1	SERPINE1 mRNA binding protein 1	-1.5	-1.9	-1.6						-2.2
PAK1	p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast)	2.5	-1.3	1.5						-3.4
PAK2	p21 (CDKN1A)-activated kinase 2	-1.6	1.5	-1.2						2.0
PAM	peptidylglycine alpha-amidating monooxygenase	1.3	-1.4	1.5						-1.6
PAPOLA	poly(A) polymerase alpha	1.4								-1.4
PARD3	par-3 partitioning defective 3 homolog (C. elegans)	2.5								3.0
PARN	poly(A)-specific ribonuclease (deadenylation nuclease)	-2.1								2.2
PARP1	poly (ADP-ribose) polymerase family, member 1	-2.5	1.7							2.2
PAWR	PRKC, apoptosis, WT1, regulator	42.6	-2.4	-1.2						-46.4
PAX8	paired box gene 8	3.7								-3.2
PAXIP1L	PAX interacting (with transcription-activation domain) protein 1	-3.5	1.2	1.4				1.3		12.7
PBEF1	pre-B-cell colony enhancing factor 1	1.7								-1.6
PBX3	pre-B-cell leukemia transcription factor 3	-172.9	-1.5							135.1
PC4	SUB1 homolog (S. cerevisiae)	2.4	-1.4							-4.6

PCBP2	poly(rC) binding protein 2	2.0				-1.9
PCCB	propionyl Coenzyme A carboxylase, beta polypeptide	1.3				-1.7
PCF11	PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)	-2.1				2.6
PCGF4	B lymphoma Mo-MLV insertion region (mouse)	-1.5	1.3			1.2
PCID1	PCI domain containing 1 (herpesvirus entry mediator)	1.2				-1.6
PCM1	pericentriolar material 1	2.3	1.8			-1.9
PCMT1	protein-L-isoaspartate (D-aspartate) O-methyltransferase	-1.3	1.4			1.4
PCNA	proliferating cell nuclear antigen	-1.7	-1.6			-3.7
PCNT2	pericentrin (kendrin)	1.4				
PCTK1	PCTAIRE protein kinase 1	-1.4				
PCTK2	PCTAIRE protein kinase 2	-1.2				1.8
PDAP1	PDGFA associated protein 1	-3.1				3.2
PDCD2	programmed cell death 2	2.0	1.3			-2.0
PDCD6	programmed cell death 6	-11.8	2.0			20.7
PDCL	phosducin-like	-1.7				
PDE3B	phosphodiesterase 3B, cGMP-inhibited	6.1	-1.4			-25.2
PDE6D	phosphodiesterase 6D, cGMP-specific, rod, delta	-2.1	1.2			2.3
PDE8A	phosphodiesterase 8A	-1.5	1.6			1.6
PDHX	pyruvate dehydrogenase complex, component X	-1.5				1.2
PDIA3	protein disulfide isomerase family A, member 3	-1.3				-1.2
PDIA4	protein disulfide isomerase family A, member 4	-1.2				-1.7
PDIA6	protein disulfide isomerase family A, member 6	-1.5	-1.3			-1.7
PDK1	pyruvate dehydrogenase kinase, isozyme 1	2.8				-5.8
PDK2	pyruvate dehydrogenase kinase, isozyme 2	3.1			1.2	
PDK3	pyruvate dehydrogenase kinase, isozyme 3	-1.3	-1.6			
PDLIM5	PDZ and LIM domain 5	1.6	-1.6			
PDPK1	3-phosphoinositide dependent protein kinase-1	-1.8				2.3
PDXK	pyridoxal (pyridoxine, vitamin B6) kinase	2.8				-4.7
PEA15	phosphoprotein enriched in astrocytes 15	-1.3				
PEMT	phosphatidylethanolamine N-methyltransferase	-3.7				
PER2	period homolog 2 (Drosophila)	-2.0	-1.7			
PEX11B	peroxisomal biogenesis factor 11B	-1.4	1.4			1.9
PEX14	peroxisomal biogenesis factor 14	1.3			-1.7	-1.3
PEX3	peroxisomal biogenesis factor 3	1.3	-2.4			-2.3
PFAS	phosphoribosylformylglycinamide synthase (FGAR amidotransferase)	-2.4	-2.7			-2.3
PFDN5	prefoldin subunit 5	1.4	1.4			
PFKP	phosphofructokinase, platelet	1.5	1.7			-1.6
PFN1	profilin 1	-2.1				1.8
PGAM1	phosphoglycerate mutase 1 (brain)	1.5	-1.2	-1.2		-2.4
PGD	phosphogluconate dehydrogenase	1.8	-1.3			-2.1
PGGT1B	protein geranylgeranyltransferase type I, beta subunit	-3.2				3.9
PGK1	phosphoglycerate kinase 1	1.3	-1.9			-2.6

PGM1	phosphoglucomutase 1	1.7	-1.8			-3.2
PGM3	phosphoglucomutase 3	-2.6				
PGRMC2	progesterone receptor membrane component 2	1.7		-1.2		-2.6
PHB2	prohibitin 2	-1.7				1.5
PHC2	polyhomeotic homolog 2 (Drosophila)	-1.6				1.7
PHF1	PHD finger protein 1	1.8				-1.6
PHF21A	PHD finger protein 21A	2.0				-1.5
PHGDH	phosphoglycerate dehydrogenase	-1.7	-2.4			-2.3
PHKA1	phosphorylase kinase, alpha 1 (muscle)	3.0				-4.3
PHKA2	phosphorylase kinase, alpha 2 (liver)	1.7	-1.3			
PHKB	phosphorylase kinase, beta	-1.7	1.4			2.0
PIAS1	protein inhibitor of activated STAT, 1	1.7	1.4			2.2
PICALM	phosphatidylinositol binding clathrin assembly protein	2.1	2.0	1.7	1.5	2.1
PIG8	centrosomal protein 57kDa	1.6				-2.3
PIGC	phosphatidylinositol glycan anchor biosynthesis, class C	1.9	2.5			-1.3
PIK3C2A	phosphoinositide-3-kinase, class 2, alpha polypeptide	2.5	1.7			1.4
PIK3CA	phosphoinositide-3-kinase, catalytic, alpha polypeptide	-2.5	1.3			3.6
PIK3CB	phosphoinositide-3-kinase, catalytic, beta polypeptide	3.3	1.2			-2.7
PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)	2.1		2.5		
PIK3R4	phosphoinositide-3-kinase, regulatory subunit 4, p150	1.3				-1.3
PINK1	PTEN induced putative kinase 1	1.3		1.6		2.2
PIP5K2A	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	1.3				
PIP5K3	phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III	-1.6				1.3
PITPNA	phosphatidylinositol transfer protein, alpha	-2.0	-1.3			2.0
PITPNB	phosphatidylinositol transfer protein, beta	-1.5				-1.3
PITRM1	pitrilysin metalloproteinase 1	1.6		1.8		-2.0
PKD2	polycystic kidney disease 2 (autosomal dominant)	-2.0				2.5
PKIA	protein kinase (cAMP-dependent, catalytic) inhibitor alpha	-6.9		1.5	-1.5	7.8
PKM2	pyruvate kinase, muscle	-3.2	-2.3			
PKMYT1	protein kinase, membrane associated tyrosine/threonine 1	-2.2	1.2			
PKN2	protein kinase N2	1.4	1.4			1.3
PKP4	plakophilin 4	2.5				-2.9
PLAG1	pleiomorphic adenoma gene 1	-5.2	1.4			11.9
PLAGL1	pleiomorphic adenoma gene-like 1	15.8		1.6		-13.0
PLCB1	phospholipase C, beta 1 (phosphoinositide-specific)	-7.4	-1.5			4.0
PLCG1	phospholipase C, gamma 1	1.9	1.9			
PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	-1.3	-1.6			-1.5
PLCL2	phospholipase C-like 2	-1.6	1.7			
PLEKHB2	pleckstrin homology domain containing, family B (evectins) member 2	1.3	1.3			-1.5
PLEKHE1	PH domain and leucine rich repeat protein phosphatase	-1.6				-1.3
PLK1	polo-like kinase 1 (Drosophila)	-1.6	1.5			2.3
PLP2	proteolipid protein 2 (colonic epithelium-enriched)	-3.3	1.5			8.3

PLS1	plastin 1 (I isoform)	9.1	-3.2			-21.7
PLSCR1	phospholipid scramblase 1	1.8	1.5			-1.4
PLTP	phospholipid transfer protein	13.4				-30.8
PLXNB2	plexin B2	-3.9	1.3			8.5
PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	-3.7	1.5		-2.1	2.3
PMF1	polyamine-modulated factor 1	-1.6				
PML	promyelocytic leukemia	1.8				1.4
PMS1	PMS1 postmeiotic segregation increased 1 (<i>S. cerevisiae</i>)	2.5	-1.3			-1.7
PMS2L3	postmeiotic segregation increased 2-like 3	-1.7				1.7
PMVK	phosphomevalonate kinase	-1.3				-1.4
PNN	pinin, desmosome associated protein	1.8	-1.5		-1.5	-2.6
PODXL	podocalyxin-like	-1.9	-2.8	-1.3		-1.4
POLA	polymerase (DNA directed), alpha 1	-1.5	-2.7			-2.7
POLA2	polymerase (DNA directed), alpha 2 (70kD subunit)	-1.4	1.3			
POLB	polymerase (DNA directed), beta	1.3	-1.5			-1.4
POLD2	polymerase (DNA directed), delta 2, regulatory subunit 50kDa	1.9	-1.9			-13.9
POLD3	polymerase (DNA-directed), delta 3, accessory subunit	-1.6	-1.8			-2.2
POLE	polymerase (DNA directed), epsilon	-1.4				-3.9
POLE2	polymerase (DNA directed), epsilon 2 (p59 subunit)	-1.8	-2.1			-2.0
POLE3	polymerase (DNA directed), epsilon 3 (p17 subunit)	-1.5	-2.0			-2.0
POLG2	polymerase (DNA directed), gamma 2, accessory subunit	1.7	-1.3			-2.6
POLR2A	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa	-2.4				2.2
POLR2B	polymerase (RNA) II (DNA directed) polypeptide B, 140kDa	2.6				-3.0
POLR2E	polymerase (RNA) II (DNA directed) polypeptide E, 25kDa	-1.5	-1.9			-1.6
POLR2G	polymerase (RNA) II (DNA directed) polypeptide G	-1.7	-1.4			
POLR2H	polymerase (RNA) II (DNA directed) polypeptide H	1.4	-1.9	-1.6		-2.9
POLR2I	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa	-1.6	-1.8			-1.7
POLR2J	polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa	-1.3				
POLR3C	polymerase (RNA) III (DNA directed) polypeptide C (62kD)	-1.8				-1.4
POLR3G	polymerase (RNA) III (DNA directed) polypeptide G (32kD)	1.3	-3.0			-3.8
PON2	paraoxonase 2	43.3	19.7	1.4		-40.8
POP4	processing of precursor 4, ribonuclease P/MRP subunit (<i>S. cerevisiae</i>)	-1.3				
POU2AF1	POU domain, class 2, associating factor 1	-56.3			-1.9	25.8
PPARBP	PPAR binding protein	1.8	-1.5			-2.0
PPAT	phosphoribosyl pyrophosphate amidotransferase	2.0	-2.0	-1.7		-4.7
PPFIA1	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1	1.3				-1.4
PPIA	peptidylprolyl isomerase A (cyclophilin A)	1.9	-1.2			-2.8
PPIB	peptidylprolyl isomerase B (cyclophilin B)	1.5				-1.7
PPIF	peptidylprolyl isomerase F (cyclophilin F)	-1.3	-2.6			-4.9
PPIG	peptidylprolyl isomerase G (cyclophilin G)	1.8	-1.3			-2.7
PPM1A	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform	-1.7	1.5			1.9
PPM1B	protein phosphatase 1B (formerly 2C), magnesium-dependent, beta isoform	1.3	1.4			1.7

PPP1CA	protein phosphatase 1, catalytic subunit, alpha isoform	-2.1				1.5
PPP1R10	protein phosphatase 1, regulatory subunit 10	1.4			1.2	
PPP1R11	protein phosphatase 1, regulatory (inhibitor) subunit 11	-1.6				1.6
PPP1R12A	protein phosphatase 1, regulatory (inhibitor) subunit 12A	1.4	1.7			1.8
PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	2.1	1.4			1.4
PPP1R7	protein phosphatase 1, regulatory subunit 7	-2.5				2.0
PPP2CA	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	-1.4				
PPP2CB	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	1.5	1.2			
PPP2R2A	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	2.4	1.7			-1.9
PPP2R4	protein phosphatase 2A, regulatory subunit B' (PR 53)	-1.2				
PPP2R5A	protein phosphatase 2, regulatory subunit B (B56), alpha isoform	-1.2	1.9			1.3
PPP2R5C	protein phosphatase 2, regulatory subunit B (B56), gamma isoform	-25.3				5.3
PPP2R5E	protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	2.4	1.2			-4.4
PPP3CB	protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform (calcineurin A beta)	1.7	1.6			-1.8
PPP4C	protein phosphatase 4 (formerly X), catalytic subunit	-1.8				1.8
PPP6C	protein phosphatase 6, catalytic subunit	-1.8				1.3
PPRC1	peroxisome proliferator-activated receptor gamma, coactivator-related 1	1.7	-2.4			-4.7
PPT1	palmitoyl-protein thioesterase 1 (ceroid-lipofuscinosis, neuronal 1, infantile)	1.7	-1.3			-2.2
PQBP1	polyglutamine binding protein 1	1.3	1.3			-1.5
PRDX1	peroxiredoxin 1	-2.5	-1.7	-1.3		
PRDX2	peroxiredoxin 2	-8.5	-3.1			3.4
PRDX4	peroxiredoxin 4	1.3	-2.5	-1.2		-3.3
PRDX6	peroxiredoxin 6	1.5	1.4			-1.3
PREI3	preimplantation protein 3	1.5	1.3			-1.7
PREP	prolyl endopeptidase	1.5				-1.8
PRG1	proteoglycan 1, secretory granule	2.7	1.5		3.2	2.7
PRIM1	primase, polypeptide 1, 49kDa	-1.3	-1.8			-2.3
PRIM2A	primase, polypeptide 2A, 58kDa	1.4				-1.4
PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	1.3	1.6			
PRKAB1	protein kinase, AMP-activated, beta 1 non-catalytic subunit	1.5				
PRKAB2	protein kinase, AMP-activated, beta 2 non-catalytic subunit	5.1				2.3
PRKACB	protein kinase, cAMP-dependent, catalytic, beta	2.4	-2.7			-1.6
PRKAG1	protein kinase, AMP-activated, gamma 1 non-catalytic subunit	1.2				
PRKAR1A	protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	2.0	1.4			
PRKCA	protein kinase C, alpha	6.6	1.3	1.6		-7.0
PRKCB1	protein kinase C, beta 1	20.7	1.6			-18.3
PRKCBP1	protein kinase C binding protein 1	-1.2	1.4			1.6
PRKCH	protein kinase C, eta	3.4	3.7			-2.4
PRKCQ	protein kinase C, theta	1.6				-2.4
PRKD2	protein kinase D2	-3.2	1.8			4.8
PRKDC	protein kinase, DNA-activated, catalytic polypeptide	-1.2	-1.6			-2.1
PRKRA	protein kinase, interferon-inducible double stranded RNA dependent activator	-1.9	2.5			5.0

PRKX	protein kinase, X-linked	-2.3	3.4			5.3
PRMT3	protein arginine methyltransferase 3	-1.3	-2.4	-1.6	-2.1	-2.8
PRNP	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)	-1.4				
PROCR	protein C receptor, endothelial (EPCR)	6.6	-1.5		-2.2	-12.1
PRPF19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (<i>S. cerevisiae</i>)	-1.3	-1.9			-2.2
PRPF31	PRP31 pre-mRNA processing factor 31 homolog (<i>S. cerevisiae</i>)	-1.2			-1.6	-2.1
PRPF4	PRP4 pre-mRNA processing factor 4 homolog (yeast)	-1.3	-2.2			-2.1
PRPF8	PRP8 pre-mRNA processing factor 8 homolog (<i>S. cerevisiae</i>)	-1.4	-1.3			
PRPS1	phosphoribosyl pyrophosphate synthetase 1	-2.1	-2.6	-1.5		-2.3
PRPS2	phosphoribosyl pyrophosphate synthetase 2	1.3				-2.1
PRPSAP1	phosphoribosyl pyrophosphate synthetase-associated protein 1	1.9				-1.3
PRPSAP2	phosphoribosyl pyrophosphate synthetase-associated protein 2	-1.8				
PRSS25	HtrA serine peptidase 2	1.5	-1.5			-1.9
PRUNE	prune homolog (<i>Drosophila</i>)	-1.5	-1.9			
PSAP	prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	3.1	-1.4			
PSEN1	presenilin 1 (Alzheimer disease 3)	1.3	1.5	1.7	1.5	2.0
PSF1	GINS complex subunit 1 (Psf1 homolog)	-1.9	-1.6			-2.3
PSIP1	PC4 and SFRS1 interacting protein 1	-2.0	-1.5			2.5
PSMA1	proteasome (prosome, macropain) subunit, alpha type, 1	-1.2				-1.3
PSMA2	proteasome (prosome, macropain) subunit, alpha type, 2	3.5	-1.3			-5.0
PSMA3	proteasome (prosome, macropain) subunit, alpha type, 3	1.3	-1.7			-1.7
PSMA6	proteasome (prosome, macropain) subunit, alpha type, 6	-1.3				1.3
PSMB2	proteasome (prosome, macropain) subunit, beta type, 2	-1.2	-1.6			-1.5
PSMB4	proteasome (prosome, macropain) subunit, beta type, 4	1.3	-1.4			-1.2
PSMB5	proteasome (prosome, macropain) subunit, beta type, 5	1.5	-1.4	-1.4	-1.4	-2.2
PSMB6	proteasome (prosome, macropain) subunit, beta type, 6	-1.6				
PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)	-18.9				16.2
PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	-202.7	-1.3			22.2
PSMC3	proteasome (prosome, macropain) 26S subunit, ATPase, 3	-1.4				-1.5
PSMC5	proteasome (prosome, macropain) 26S subunit, ATPase, 5	1.6				-2.6
PSMC6	proteasome (prosome, macropain) 26S subunit, ATPase, 6	1.3				-1.4
PSMD1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	-1.6	-1.4			
PSMD10	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	-1.2				-1.2
PSMD12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12	1.6				-2.2
PSMD14	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	1.3				-2.4
PSMD2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2	1.3				-1.8
PSMD4	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	1.3				-1.6
PSMD5	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5	3.0				-2.5
PSMD8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8	-1.5	-1.3			
PSME1	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	-1.9	-1.8			
PSME2	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	-2.4	-1.8			
PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	1.5	-2.2		-1.4	-2.6

PSPH	phosphoserine phosphatase	3.3	-2.0			-8.6
PTEN	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	4.2	-1.3	2.3		-4.7
PTK2B	PTK2B protein tyrosine kinase 2 beta	-1.3		2.1	4.2	1.9
PTMA	prothymosin, alpha (gene sequence 28)	-1.7	-1.3			
PTP4A1	protein tyrosine phosphatase type IVA, member 1	-1.7	-1.8			-1.9
PTP4A2	protein tyrosine phosphatase type IVA, member 2	1.2	1.5			-1.9
PTPLB	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	2.2	2.3			2.2
PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)	1.3				-1.3
PTPN12	protein tyrosine phosphatase, non-receptor type 12	-10.9	2.4	1.3		75.8
PTPN2	protein tyrosine phosphatase, non-receptor type 2	1.3	-1.2	-1.3	-2.1	-1.6
PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	2.9				-8.4
PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	-1.6	-1.6			
PTPN6	protein tyrosine phosphatase, non-receptor type 6	-5.5		1.3		7.8
PTPN7	protein tyrosine phosphatase, non-receptor type 7	3.3	-1.5			-4.7
PTPRA	protein tyrosine phosphatase, receptor type, A	1.3				
PTPRC	protein tyrosine phosphatase, receptor type, C	-6.4				11.4
PTPRCAP	protein tyrosine phosphatase, receptor type, C-associated protein	-2.1	1.5			3.6
PTPRF	protein tyrosine phosphatase, receptor type, F	91.0				-122.2
PTPRM	protein tyrosine phosphatase, receptor type, M	8.5		3.8	13.6	-19.3
PTS	6-pyruvoyltetrahydropterin synthase	-2.4	-1.3	-1.6		1.8
PTTG1	pituitary tumor-transforming 1	-2.1				1.4
PTTG1IP	pituitary tumor-transforming 1 interacting protein	1.4	1.5			
PUM2	pumilio homolog 2 (Drosophila)	-1.4				1.4
PURA	purine-rich element binding protein A	-1.3				1.3
PXMP3	peroxisomal membrane protein 3, 35kDa (Zellweger syndrome)	-1.7	1.7		4.3	2.6
QDPR	quinoid dihydropteridine reductase	2.2				-3.8
QKI	quaking homolog, KH domain RNA binding (mouse)	2.7	2.5		-1.5	-1.7
QPRT	quinolate phosphoribosyltransferase (nicotinate-nucleotide pyrophosphorylase (carboxylating))	-2.1	-3.6			1.4
RAB11A	RAB11A, member RAS oncogene family	-2.2	1.3			1.5
RAB11B	RAB11B, member RAS oncogene family	-1.4				
RAB14	RAB14, member RAS oncogene family	1.3	1.3			
RAB1A	RAB1A, member RAS oncogene family	1.5	1.3			-1.3
RAB2	RAB2, member RAS oncogene family	-1.9				2.1
RAB27A	RAB27A, member RAS oncogene family	2.2	-1.8			-3.5
RAB31	RAB31, member RAS oncogene family	3.8				-13.0
RAB3GAP	RAB3 GTPase activating protein subunit 1 (catalytic)	1.8	-1.5			
RAB3-GAP150	RAB3 GTPase activating protein subunit 2 (non-catalytic)	1.3				
RAB40B	RAB40B, member RAS oncogene family	-1.7		-1.3		-1.5
RAB4A	RAB4A, member RAS oncogene family	3.8				-4.7
RAB5A	RAB5A, member RAS oncogene family	1.2	1.3			
RAB5C	RAB5C, member RAS oncogene family	1.2				
RAB6A	RAB6A, member RAS oncogene family	-1.4	1.5			1.7

RAB6IP2	ELKS/RAB6-interacting/CAST family member 1	-1.3		1.8		5.3
RAB7L1	RAB7, member RAS oncogene family-like 1	2.1	-1.4			-2.9
RAB9A	RAB9, member RAS oncogene family	1.3				
RAB9P40	Rab9 effector protein with kelch motifs	1.9	-3.7	-1.8	-2.1	-12.1
RABAC1	Rab acceptor 1 (prenylated)	-1.5				3.1
RABEP1	rabaptin, RAB GTPase binding effector protein 1	-2.1				2.4
RABGGTB	Rab geranylgeranyltransferase, beta subunit	2.1	-1.8	-1.3	-1.7	-1.8
RABIF	RAB interacting factor	-1.2				1.5
RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	-1.9	1.4			2.0
RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	-2.7				1.3
RAD1	RAD1 homolog (S. pombe)	-1.6	-1.7			-3.2
RAD21	RAD21 homolog (S. pombe)	-2.3	1.3			2.5
RAD23B	RAD23 homolog B (S. cerevisiae)	-1.3				
RAD51AP1	RAD51 associated protein 1	-2.8	-1.4			-1.3
RAE1	RAE1 RNA export 1 homolog (S. pombe)	-1.3	-1.4			-1.4
RAF1	v-raf-1 murine leukemia viral oncogene homolog 1	-1.3				
RAFTLIN	raftlin, lipid raft linker 1	-1.5	-1.5			
RAG1	recombination activating gene 1	-32.2		-3.6	-4.2	14.5
RAG2	recombination activating gene 2	-7.4				6.4
RALA	v-ral simian leukemia viral oncogene homolog A (ras related)	1.7	-1.3			-2.1
RALBP1	ralA binding protein 1	-1.8	-1.4			1.2
RALY	RNA binding protein, autoantigenic (hnRNP-associated with lethal yellow homolog (mouse))	-1.4				1.2
RAN	RAN, member RAS oncogene family	-1.2	-1.2			-1.4
RANBP1	RAN binding protein 1	-1.9				-2.8
RANBP2	RAN binding protein 2	2.5	-1.4			-1.9
RANBP5	RAN binding protein 5	-1.3	-2.0		-1.5	-2.3
RANBP9	RAN binding protein 9	-1.6	-1.3			2.1
RAP1A	RAP1A, member of RAS oncogene family	2.0				-2.2
RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1	-1.5				2.0
RAP2A	RAP2A, member of RAS oncogene family	-1.4	1.6			4.0
RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2	1.8	2.0			4.2
RASA1	RAS p21 protein activator (GTPase activating protein) 1	1.9	2.3	1.9	2.0	3.5
RASA4	RAS p21 protein activator 4	2.0				-3.4
RASGRP1	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	-111.1	-7.2			
RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	-2.3	2.1			4.4
RASSF2	Ras association (RalGDS/AF-6) domain family 2	-6.4	-2.5			3.5
RB1	retinoblastoma 1 (including osteosarcoma)	-2.6	1.5			3.1
RB1CC1	RB1-inducible coiled-coil 1	-1.4	1.7			1.7
RBBP4	retinoblastoma binding protein 4	-1.3	-1.4			-1.5
RBBP5	retinoblastoma binding protein 5	-1.3				1.3
RBBP6	retinoblastoma binding protein 6	-1.8				2.5
RBBP8	retinoblastoma binding protein 8	-1.9	-1.7	-1.3		-1.5

RBL1	retinoblastoma-like 1 (p107)	-1.8				
RBL2	retinoblastoma-like 2 (p130)	1.5	1.5			-1.3
RBM4	RNA binding motif protein 4	1.7	1.3			
RBM4B	RNA binding motif protein 4B	-1.7				
RBM5	RNA binding motif protein 5	1.6		1.4	1.3	2.2
RBM8A	RNA binding motif protein 8A	2.3	1.5			-3.3
RBMS1	RNA binding motif, single stranded interacting protein 1	3.0	4.3			2.3
RBMX	RNA binding motif protein, X-linked	1.4				-1.9
RBPSUH	recombining binding protein suppressor of hairless (Drosophila)	1.9	1.4			1.2
RCHY1	ring finger and CHY zinc finger domain containing 1	1.5				-1.6
RCN1	reticulocalbin 1, EF-hand calcium binding domain	-1.5	1.2	1.5		2.3
RCN2	reticulocalbin 2, EF-hand calcium binding domain	1.4	2.0			
RCOR1	REST corepressor 1	-1.3				1.3
RCP9	calcitonin gene-related peptide-receptor component protein	-1.5	-1.5			
RDBP	RD RNA binding protein	-1.2				-1.6
RDH11	retinol dehydrogenase 11 (all-trans/9-cis/11-cis)	-1.3	-1.8			-1.6
RECQL	RecQ protein-like (DNA helicase Q1-like)	-1.4		1.6		1.4
REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)	2.4	1.5		2.4	-2.1
REV3L	REV3-like, catalytic subunit of DNA polymerase zeta (yeast)	-2.1	1.5			2.2
RFC1	replication factor C (activator 1) 1, 145kDa	-1.2	-1.4	1.5		-2.1
RFC2	replication factor C (activator 1) 2, 40kDa	-3.9	-1.5			-1.5
RFC3	replication factor C (activator 1) 3, 38kDa	-2.1	-1.5			-1.5
RFC5	replication factor C (activator 1) 5, 36.5kDa	-1.3	-1.7			-2.9
RFK	riboflavin kinase	-1.9	-2.1			-1.3
RFX5	regulatory factor X, 5 (influences HLA class II expression)	-1.6				-1.6
RGS10	regulator of G-protein signalling 10	19.3	-2.5			-19.8
RGS19	regulator of G-protein signalling 19	-1.8	-1.3	-1.3	-1.6	2.2
RHEB	Ras homolog enriched in brain	-1.6	1.9			2.9
RHOA	ras homolog gene family, member A	-1.4	1.4	1.2		1.4
RHOC	ras homolog gene family, member C	3.0	3.2			2.3
RHOG	ras homolog gene family, member G (rho G)	1.9				-1.6
RHOH	ras homolog gene family, member H	-15.8	1.3			38.1
RHOQ	ras homolog gene family, member Q	1.8	1.3			-1.7
RIF1	RAP1 interacting factor homolog (yeast)	2.0	-1.3			-6.8
RIMS3	regulating synaptic membrane exocytosis 3	-6.8				12.1
RIOK3	RIO kinase 3 (yeast)	1.7				1.5
RIPK1	receptor (TNFRSF)-interacting serine-threonine kinase 1	1.5				
RIT1	Ras-like without CAAX 1	-1.4	1.8			2.1
RNF13	ring finger protein 13	1.3	-1.5			
RNF139	ring finger protein 139	1.4				
RNF144	ring finger protein 144	3.5				-4.3
RNF6	ring finger protein (C3H2C3 type) 6	-2.2	1.2			2.2

RNGTT	RNA guanylyltransferase and 5'-phosphatase	-1.6				
RNH	ribonuclease/angiogenin inhibitor 1	2.4	-1.5		-1.3	-4.2
RNMT	RNA (guanine-7-) methyltransferase	1.3				-1.5
RNPC2	RNA binding motif protein 39	1.8	2.3			1.3
RNPS1	RNA binding protein S1, serine-rich domain	-5.0	-1.2			2.5
RNUT1	snurportin 1	1.3				-1.5
RPA1	replication protein A1, 70kDa	-2.8	-1.6			1.5
RPA3	replication protein A3, 14kDa	-2.0				
RPE	ribulose-5-phosphate-3-epimerase	-2.1	-1.5			1.4
RPGR	retinitis pigmentosa GTPase regulator	6.5		-1.6		
RPL12	ribosomal protein L12	1.5				
RPL13	ribosomal protein L13	1.4				-3.0
RPL13A	ribosomal protein L13a	1.4				-1.2
RPL15	ribosomal protein L15	1.5	2.1			-1.4
RPL17	ribosomal protein L17	2.1	-1.8			-2.3
RPL18A	ribosomal protein L18a	1.4	1.3			
RPL22	ribosomal protein L22	1.2				
RPL23	ribosomal protein L23	1.3	-1.3			
RPL29	ribosomal protein L29	2.0	1.4			-1.5
RPL3	ribosomal protein L3	1.3				
RPL31	ribosomal protein L31	2.9	1.3			-3.4
RPL35	ribosomal protein L35	2.2	2.4			-1.8
RPL37	ribosomal protein L37	1.6	-1.5			-1.8
RPL38	ribosomal protein L38	2.0				-1.5
RPL4	ribosomal protein L4	1.3				
RPL5	ribosomal protein L5	1.3	1.2			
RPLP2	ribosomal protein, large, P2	1.4				-1.7
RPN1	ribophorin I	1.5				-2.3
RPN2	ribophorin II	1.7	-1.5			-2.6
RPP14	ribonuclease P 14kDa subunit	1.9	-1.7			-2.7
RPP38	ribonuclease P/MRP 38kDa subunit	1.7	-1.5	-1.2		-1.8
RPS10	ribosomal protein S10	1.3	1.4			
RPS14	ribosomal protein S14	1.5	1.6			
RPS15A	ribosomal protein S15a	1.5				1.2
RPS17	ribosomal protein S17	1.5	1.5			
RPS18	ribosomal protein S18	2.2				
RPS19	ribosomal protein S19	1.3	-1.6			
RPS2	ribosomal protein S2	2.6				-1.9
RPS21	ribosomal protein S21	3.1	1.2			-3.3
RPS23	ribosomal protein S23	2.0				-2.1
RPS24	ribosomal protein S24	2.2				-3.2
RPS28	ribosomal protein S28	1.2				

RPS3	ribosomal protein S3	1.2				
RPS6	ribosomal protein S6	-1.7	-1.9			1.3
RPS6KA1	ribosomal protein S6 kinase, 90kDa, polypeptide 1	-2.9	-1.3			3.6
RPS6KB1	ribosomal protein S6 kinase, 70kDa, polypeptide 1	1.7				-1.7
RPS8	ribosomal protein S8	1.3				
RQCD1	RCD1 required for cell differentiation1 homolog (S. pombe)	-2.3	-1.7			-1.4
RRAGA	Ras-related GTP binding A	-2.6	1.3	1.4		3.2
RRAGD	Ras-related GTP binding D	3.0	-2.4			-8.9
RRAS	related RAS viral (r-ras) oncogene homolog	1.7	2.6			2.4
RRM1	ribonucleotide reductase M1 polypeptide	-1.6	-1.4			-2.1
RRM2	ribonucleotide reductase M2 polypeptide	-2.3				-1.8
RRS1	RRS1 ribosome biogenesis regulator homolog (S. cerevisiae)	-1.4				-1.6
RSL1D1	ribosomal L1 domain containing 1	-3.8	-2.1			
RTN2	reticulon 2	1.6				
RUNX1	--	-1.5	-2.5	-1.3		-1.4
RUVBL1	RuvB-like 1 (E. coli)	-1.6				-1.7
RUVBL2	RuvB-like 2 (E. coli)	1.2	-1.4			-2.0
RW1	transmembrane protein 131	1.4	1.3			
RXRA	retinoid X receptor, alpha	2.4				-3.3
RYBP	RING1 and YY1 binding protein	1.4	1.3			2.9
RYK	RYK receptor-like tyrosine kinase	11.1				-22.2
S100A10	S100 calcium binding protein A10	-26.4				40.6
S100A11	S100 calcium binding protein A11	1.5			-1.8	
S100A4	S100 calcium binding protein A4	-7.7	-4.0			5.4
SACM1L	SAC1 suppressor of actin mutations 1-like (yeast)	1.8				-1.6
SACS	spastic ataxia of Charlevoix-Saguenay (sacsin)	-1.7	-1.4		-2.0	-1.4
SAP18	Sin3A-associated protein, 18kDa	-2.2				1.7
SAP30	Sin3A-associated protein, 30kDa	1.7	2.3	2.2		3.8
SARA1	SAR1 gene homolog A (S. cerevisiae)	1.6				-1.7
SARS	seryl-tRNA synthetase	-2.7	-1.4	-1.4		1.8
SAT	spermidine/spermine N1-acetyltransferase 1	5.5	3.9			1.3
SATB1	special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA's)	6.4	-1.8	-1.9	-2.3	-3.7
SBF1	SET binding factor 1	-1.9	3.1			6.9
SC4MOL	sterol-C4-methyl oxidase-like	-3.2	1.6		-1.6	4.6
SC5DL	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, fungal)-like	-1.7				2.6
SCAMP1	secretory carrier membrane protein 1	1.7				-1.7
SCAMP5	secretory carrier membrane protein 5	4.4				-2.6
SCAP	SREBF chaperone	1.2				-1.4
SCARB1	scavenger receptor class B, member 1	-1.4	-4.9	-1.7		-33.3
SCC-112	SCC-112 protein	-1.4	1.3			1.5
SCHIP1	schwannomin interacting protein 1	-5.1	1.4			1.9
SCP2	sterol carrier protein 2	-12.0	1.6			175.1

SCRIB	scribbled homolog (<i>Drosophila</i>)	1.5			1.7	
SCYE1	small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating)	1.6	-1.4	-1.7	-1.9	-2.0
SDCBP	syndecan binding protein (syntenin)	-1.5	1.5	1.8		2.5
SDFR1	neuroplastin	1.5				-1.5
SDHA	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	-1.5	2.0			1.9
SDHC	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa	-1.3				1.2
SEC13L1	SEC13 homolog (<i>S. cerevisiae</i>)	-1.2				
SEC22L1	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>)	-1.9				4.1
SEC23IP	SEC23 interacting protein	1.4				-1.6
SEC24C	SEC24 related gene family, member C (<i>S. cerevisiae</i>)	1.4				-1.3
SEC24D	SEC24 related gene family, member D (<i>S. cerevisiae</i>)	1.5				
SEC61G	Sec61 gamma subunit	2.2				-2.6
SEC63	SEC63 homolog (<i>S. cerevisiae</i>)	1.5	-1.3		-1.2	-2.5
SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	-1.5			1.6	2.1
SEN3	SUMO1/sentrin/SMT3 specific peptidase 3	-2.9	-1.7	-1.3	-1.2	
SEN6	SUMO1/sentrin specific peptidase 6	2.0	1.5			1.2
SEPHS1	selenophosphate synthetase 1	-1.6	-2.1			-1.7
SEPT2	septin 2	-3.6	-1.5			2.4
SEPT6	septin 6	-1.4	-2.0		-1.6	-2.7
SEPT7	septin 7	2.6	1.3			-2.3
SEPT8	septin 8	1.5	-1.4			4.5
SEPT9	septin 9	-2.8				2.6
SEPW1	selenoprotein W, 1	2.4	1.3			-1.5
SERP1	stress-associated endoplasmic reticulum protein 1	1.5	-1.7			-1.6
SERPINB1	serpin peptidase inhibitor, clade B (ovalbumin), member 1	40.4	3.1			-7.4
SERPINH1	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	18.1				-17.3
SERTAD2	SERTA domain containing 2	1.5				-1.8
SET	SET translocation (myeloid leukemia-associated)	-1.3	-1.9			-1.5
SF1	splicing factor 1	-1.6	-1.4			
SF3A1	splicing factor 3a, subunit 1, 120kDa	-1.4				
SF3A2	splicing factor 3a, subunit 2, 66kDa	-1.5	-1.6			
SF3B1	splicing factor 3b, subunit 1, 155kDa	1.8		1.3		
SF3B3	splicing factor 3b, subunit 3, 130kDa	-1.4	-1.7			-2.7
SFN	stratifin	-1.7	-1.8			
SFPQ	splicing factor proline/glutamine-rich (polypyrimidine tract binding protein associated)	1.4	1.2			
SFRS1	splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate splicing factor)	-1.6	-1.7			-2.4
SFRS10	splicing factor, arginine/serine-rich 10 (transformer 2 homolog, <i>Drosophila</i>)	-1.7	-1.2			-1.3
SFRS11	splicing factor, arginine/serine-rich 11	2.7	4.2			-4.1
SFRS12	splicing factor, arginine/serine-rich 12	4.5	-1.7			-3.5
SFRS2	splicing factor, arginine/serine-rich 2	-1.3	-1.4			-1.5
SFRS2B	splicing factor, arginine/serine-rich 2B	-1.3	-1.3			1.3
SFRS3	splicing factor, arginine/serine-rich 3	-1.4	1.3			1.5

SFRS4	splicing factor, arginine/serine-rich 4	-1.2				
SFRS6	splicing factor, arginine/serine-rich 6	-3.6				3.4
SFRS7	splicing factor, arginine/serine-rich 7, 35kDa	-1.8	-1.5			-1.9
SFRS9	splicing factor, arginine/serine-rich 9	-2.7	1.2			2.0
SH3GLB1	SH3-domain GRB2-like endophilin B1	1.5	2.2			2.5
SHC1	SHC (Src homology 2 domain containing) transforming protein 1	-1.7				
SHFM1	split hand/foot malformation (ectrodactyly) type 1	-1.8				
SHMT1	serine hydroxymethyltransferase 1 (soluble)	-1.5	-1.8			1.4
SHMT2	serine hydroxymethyltransferase 2 (mitochondrial)	-2.3	-1.8			
SIAH1	seven in absentia homolog 1 (Drosophila)	-1.5				1.5
SIM2	single-minded homolog 2 (Drosophila)	2.4				-3.1
SIT	signaling threshold regulating transmembrane adaptor 1	-18.5				
SIVA	SIVA1, apoptosis-inducing factor	-1.6	-1.7			-2.9
SKI	v-ski sarcoma viral oncogene homolog (avian)	7.9				-5.0
SKIP (C62)	skeletal muscle and kidney enriched inositol phosphatase	-1.7				2.3
SLA	Src-like-adaptor	2.1	4.4	2.8	3.1	10.8
SLBP	stem-loop (histone) binding protein	-1.8	-1.3			-1.8
SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	2.1	-2.1			-2.1
SLC12A2	solute carrier family 12 (sodium/potassium/chloride transporters), member 2	-1.9				1.9
SLC16A1	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	-1.2	-2.8			-3.9
SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	9.6				-28.1
SLC16A5	solute carrier family 16, member 5 (monocarboxylic acid transporter 6)	2.4				
SLC18A2	solute carrier family 18 (vesicular monoamine), member 2	4.3	1.6	4.1	4.2	-6.1
SLC1A4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	-11.7	-1.8	1.6		2.2
SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5	-2.0	-2.3	-1.7		
SLC20A1	solute carrier family 20 (phosphate transporter), member 1	-2.2	-1.4			-2.7
SLC23A2	solute carrier family 23 (nucleobase transporters), member 2	1.3	-1.8			-2.5
SLC25A11	solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11	-2.4				1.7
SLC25A3	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3	1.2				
SLC26A2	solute carrier family 26 (sulfate transporter), member 2	2.8	1.3			
SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	-1.9	6.0			-1.7
SLC30A1	solute carrier family 30 (zinc transporter), member 1	2.2				-1.8
SLC30A9	solute carrier family 30 (zinc transporter), member 9	2.1				-1.5
SLC39A14	solute carrier family 39 (zinc transporter), member 14	1.9	-3.8	-1.4	-1.3	-5.4
SLC39A6	solute carrier family 39 (zinc transporter), member 6	-1.7	-1.7		-1.5	
SLC3A2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	-1.3				
SLC43A1	solute carrier family 43, member 1	1.8	-2.0			-2.5
SLC6A6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	8.8				-18.0
SLC7A1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	-2.4	-2.7		-2.1	-2.3
SLC7A5	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	-3.9				1.5
SLC9A3R1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	1.6	-1.4		-1.9	-2.3
SLK	STE20-like kinase (yeast)	4.3				-2.9

SMAD1	SMAD family member 1	1.2	2.7			1.3
SMAD2	SMAD family member 2	-1.7	-1.3			1.9
SMAD4	SMAD family member 4	-1.5	1.6		-1.4	2.2
SMAD5	SMAD family member 5	-1.5				
SMAD6	SMAD family member 6	5.6				-6.8
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	-1.2	2.2	1.7	1.4	7.2
SMARCA3	helicase-like transcription factor	-1.4	-1.4			-1.4
SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	-1.9	-1.6			
SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	-1.3				
SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	-1.4	-2.2			-2.4
SMARCC2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2	-1.5				1.2
SMARCD1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1	-1.9				1.7
SMARCD2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2	1.3	-1.2			
SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	-2.2				2.0
SMC1L1	structural maintenance of chromosomes 1A	-2.2	-1.2			
SMC2L1	structural maintenance of chromosomes 2	-2.3	1.3			-1.3
SMC4L1	structural maintenance of chromosomes 4	-1.5	1.4	1.7	1.7	6.8
SMG1	PI-3-kinase-related kinase SMG-1	-1.8				1.8
SMNDC1	survival motor neuron domain containing 1	1.6				-1.5
SMPD4	sphingomyelin phosphodiesterase 4, neutral membrane (neutral sphingomyelinase-3)	-1.4				
SMURF2	SMAD specific E3 ubiquitin protein ligase 2	1.6	1.6			1.5
SNAPC3	small nuclear RNA activating complex, polypeptide 3, 50kDa	-3.2	1.3			3.3
SND1	staphylococcal nuclease and tudor domain containing 1	-1.3				
SNRK	SNF related kinase	1.2				
SNRPA1	small nuclear ribonucleoprotein polypeptide A'	-1.4	-1.4			-2.4
SNRPB	small nuclear ribonucleoprotein polypeptides B and B1	-1.6	-1.7			-2.4
SNRPC	small nuclear ribonucleoprotein polypeptide C	-1.3	-1.5			-1.3
SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa	-1.9	-1.7	-1.4		-2.0
SNRPD2	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	-1.2	-1.2			
SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa	-1.6				-1.4
SNRPE	small nuclear ribonucleoprotein polypeptide E	-1.3	-1.3			
SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	-5.9	3.5	3.0	2.3	8.7
SNX1	sorting nexin 1	3.6				-2.4
SNX2	sorting nexin 2	-1.6	-1.4			1.4
SNX3	sorting nexin 3	1.3	-1.5			
SNX4	sorting nexin 4	-1.2			-1.5	1.3
SOCS1	suppressor of cytokine signaling 1	-1.6	8.3	15.6	29.3	40.4
SOCS2	suppressor of cytokine signaling 2	-1.8	2.8		2.8	4.7
SOCS5	suppressor of cytokine signaling 5	1.7	1.3			
SOCS6	suppressor of cytokine signaling 6	1.3	1.9			
SORD	sorbitol dehydrogenase	-1.3	-1.6			-2.9
SOX4	SRY (sex determining region Y)-box 4	-5.7	-1.3			3.0

SP100	SP100 nuclear antigen	-1.7	2.3			6.4
SP3	Sp3 transcription factor	-2.8				2.2
SPA17	sperm autoantigenic protein 17	-2.0				1.8
SPAG7	sperm associated antigen 7	-1.6				
SPAG9	sperm associated antigen 9	2.0	1.3			1.3
SPAST	spastin	1.3				-1.2
SPBC25	spindle pole body component 25 homolog (<i>S. cerevisiae</i>)	1.4				-3.1
SPCS2	signal peptidase complex subunit 2 homolog (<i>S. cerevisiae</i>)	1.3	-1.3		-1.4	-1.6
SPHAR	S-phase response (cyclin-related)	3.4				-3.2
SPHK2	sphingosine kinase 2	-1.7				1.6
SPINT2	serine peptidase inhibitor, Kunitz type, 2	4.2		1.4		-2.6
SPN	sialophorin (leukosialin, CD43)	-1.9	-1.2			1.7
SPTBN1	spectrin, beta, non-erythrocytic 1	-1.4	2.4			
SPTLC1	serine palmitoyltransferase, long chain base subunit 1	1.7				-1.2
SQLE	squalene epoxidase	-2.0	-1.4			1.8
SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	2.0	1.2		3.0	4.9
SRF	serum response factor (c-fos serum response element-binding transcription factor)	-1.3		-1.5		
SRI	sorcin	1.5			-1.6	-1.9
SRP14	signal recognition particle 14kDa (homologous Alu RNA binding protein)	-1.4				1.5
SRP72	signal recognition particle 72kDa	3.8	-1.5			-5.1
SRPK2	SFRS protein kinase 2	-1.3	1.2			1.8
SRR	serine racemase	-2.1	-2.2			
SRRM2	serine/arginine repetitive matrix 2	-1.9	-1.4			1.4
SS18	synovial sarcoma translocation, chromosome 18	1.5				-1.5
SS18L1	synovial sarcoma translocation gene on chromosome 18-like 1	1.6	-1.5			-2.4
SSB	Sjogren syndrome antigen B (autoantigen La)	1.7	-1.7		-1.6	-3.1
SSBP1	single-stranded DNA binding protein 1	1.3	-1.8			-1.4
SSBP2	single-stranded DNA binding protein 2	-7.6				7.2
SSR1	signal sequence receptor, alpha (translocon-associated protein alpha)	1.2				-1.4
SSR4	signal sequence receptor, delta (translocon-associated protein delta)	1.7	-1.3			-2.1
SSRP1	structure specific recognition protein 1	-1.8	-2.2			-1.9
ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	1.5	-1.5			-2.2
ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	4.7		1.6		-10.8
ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	13.7	1.9	2.1		-28.6
ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1	-1.7				1.5
ST6GALNAC4	ST6 (alpha-N-acetylneuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	-1.7			1.4	1.7
STAG1	stromal antigen 1	-1.4				1.2
STAG2	stromal antigen 2	-1.6				1.7
STAM	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	1.6		-1.5		-1.9
STAMBIP	STAM binding protein	-1.2				1.6
STAT1	signal transducer and activator of transcription 1, 91kDa	1.7	-1.5			-4.2
STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	3.8		1.3		-1.4

STAT5A	signal transducer and activator of transcription 5A	2.7		-1.3	-1.7	-3.2
STAU	stauflen, RNA binding protein, homolog 1 (Drosophila)	-1.2				1.2
STAU2	stauflen, RNA binding protein, homolog 2 (Drosophila)	-2.9	1.6			2.5
STCH	stress 70 protein chaperone, microsomal-associated, 60kDa	1.6				-2.5
STIM1	stromal interaction molecule 1	-1.4	1.9	1.9	2.0	3.4
STIP1	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)	-1.6	-1.4	-1.8		-1.3
STK10	serine/threonine kinase 10	-1.4				1.7
STK24	serine/threonine kinase 24 (STE20 homolog, yeast)	-2.2	1.3			1.8
STK3	serine/threonine kinase 3 (STE20 homolog, yeast)	-2.2	1.5			3.6
STK38	serine/threonine kinase 38	-2.3	1.7			2.1
STK39	serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	-2.5	1.8			3.1
STRAP	serine/threonine kinase receptor associated protein	-1.4				2.1
STS	steroid sulfatase (microsomal), arylsulfatase C, isozyme S	-3.6		-1.6		2.4
STX16	syntaxin 16	1.5				1.5
STX3A	syntaxin 3	1.7				
STX6	syntaxin 6	-1.9				1.7
STX7	syntaxin 7	1.5	1.3			1.4
STX8	syntaxin 8	-2.6				3.2
STXBP1	syntaxin binding protein 1	-13.5		2.0	3.8	11.7
STXBP3	syntaxin binding protein 3	-1.2	1.7			1.9
SULT1A1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1	-1.5				2.2
SUMO1	SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)	1.2	-1.3			-2.1
SUMO2	SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)	3.0				-3.1
SUPT3H	suppressor of Ty 3 homolog (S. cerevisiae)	-6.4				10.6
SUPT4H1	suppressor of Ty 4 homolog 1 (S. cerevisiae)	-1.7	1.6			2.0
SUPT6H	suppressor of Ty 6 homolog (S. cerevisiae)	1.8				-1.5
SURF5	surfeit 5	-1.4				
SV2A	synaptic vesicle glycoprotein 2A	10.1	1.9	1.7	1.4	-14.8
SWAP70	SWAP-70 protein	-1.3	1.4	1.3		1.6
SYBL1	synaptobrevin-like 1	1.3	1.2			
SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	-1.7	-1.6		-1.4	-1.9
SYNE2	spectrin repeat containing, nuclear envelope 2	-10.7	6.9	1.5		38.9
SYNGR2	synaptogyrin 2	1.9				-2.4
SYNJ2	synaptojanin 2	-13.7		1.9		48.6
TACC1	transforming, acidic coiled-coil containing protein 1	2.5				1.7
TAF1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa	1.9				-1.4
TAF10	TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30kDa	-1.4				1.4
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa	1.6	-1.4			-1.7
TAF1A	TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kDa	-2.1	-1.8			
TAF1C	TATA box binding protein (TBP)-associated factor, RNA polymerase I, C, 110kDa	1.8				-1.6
TAF2	TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 150kDa	-1.3				1.6
TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa	-1.3				-2.3

TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	2.2				-3.2
TAGLN2	transgelin 2	-3.0		-1.4		
TAL1	T-cell acute lymphocytic leukemia 1	1.7		1.6		-2.3
TALDO1	transaldolase 1	1.8				-1.7
TANK	TRAF family member-associated NFKB activator	2.1	1.4			-1.3
TAOK3	TAO kinase 3	2.3	-1.4			-2.9
TAPBP	TAP binding protein (tapasin)	-1.8	-1.3			1.2
TARDBP	TAR DNA binding protein	1.9	-1.2			-1.3
TAX1BP1	Tax1 (human T-cell leukemia virus type I) binding protein 1	4.5	1.4	1.5		-2.6
TAX1BP3	Tax1 (human T-cell leukemia virus type I) binding protein 3	-2.1	3.3			4.2
TBC1D22A	TBC1 domain family, member 22A	-1.5				-1.2
TBPL1	TBP-like 1	-1.6				1.5
TCEA1	transcription elongation factor A (SII), 1	-1.7				1.5
TCEAL1	transcription elongation factor A (SII)-like 1	1.8				-1.4
TCEB1	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)	-1.6	1.4			
TCEB2	transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	-2.9				1.4
TCERG1	transcription elongation regulator 1	-1.4	-1.4		-1.4	-1.4
TCF12	transcription factor 12 (HTF4, helix-loop-helix transcription factors 4)	-2.5	-2.0			2.8
TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	-4.7				4.7
TCFL5	transcription factor-like 5 (basic helix-loop-helix)	-2.5	2.1			2.8
TCP1	t-complex 1	-1.3	-1.5		-1.7	-1.6
TCTEL1	dynein, light chain, Tctex-type 1	1.2	1.5			
TDRD7	tudor domain containing 7	-2.6				5.6
TEGT	testis enhanced gene transcript (BAX inhibitor 1)	1.2	1.4			1.3
TERF1	telomeric repeat binding factor (NIMA-interacting) 1	-1.6				2.0
TERF2	telomeric repeat binding factor 2	-1.5				1.4
TES	testis derived transcript (3 LIM domains)	1.4				
TFAM	transcription factor A, mitochondrial	-1.4	-1.8		-1.8	-2.0
TFCP2	transcription factor CP2	-1.5	-1.9			1.8
TFDP1	transcription factor Dp-1	-1.8	-1.3			-1.6
TFDP2	transcription factor Dp-2 (E2F dimerization partner 2)	3.1	-1.4	-1.5		
TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	4.9	9.6	3.1	1.9	24.6
TGFB1	transforming growth factor, beta 1 (Camurati-Engelmann disease)	32.0				-3.3
TGFBR2	transforming growth factor, beta receptor II (70/80kDa)	-3.3	1.8	2.8	4.0	6.9
TGIF2	TGFB-induced factor 2 (TALE family homeobox)	1.9	-1.6			-2.9
TGOLN2	trans-golgi network protein 2	1.3	1.2			-1.6
THOC2	THO complex 2	1.5	1.6			-1.5
THRAP1	thyroid hormone receptor associated protein 1	1.9	1.5			-1.3
THRAP2	thyroid hormone receptor associated protein 2	-1.5	4.2			2.3
TIA1	TIA1 cytotoxic granule-associated RNA binding protein	-1.7	-1.3			1.8
TIAL1	TIA1 cytotoxic granule-associated RNA binding protein-like 1	1.7	-1.4			-2.0
TIF1	tripartite motif-containing 24	1.6				-1.5

TIMM17A	translocase of inner mitochondrial membrane 17 homolog A (yeast)	-1.2	-1.5		-1.5	-1.6
TIMP2	TIMP metalloproteinase inhibitor 2	2.1				-3.0
TIP120A	cullin-associated and neddylation-dissociated 1	1.6	-1.3			-1.4
TKT	transketolase (Wernicke-Korsakoff syndrome)	1.5	-1.3			-1.8
TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	-2.0	5.6			7.4
TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)	-1.4	-1.5			1.7
TLK1	tousled-like kinase 1	1.7	1.4			
TLK2	tousled-like kinase 2	1.7				
TLN1	talin 1	-1.6		1.4		2.6
TM2D1	TM2 domain containing 1	1.6	1.8			1.8
TM4SF2	tetraspanin 7	35.8	4.8			-11.4
TMED7	transmembrane emp24 protein transport domain containing 7	1.6	1.7			
TMED9	transmembrane emp24 protein transport domain containing 9	1.8				-2.4
TMEM1	transmembrane protein 1	-1.4				1.5
TMEM11	transmembrane protein 11	-1.7				
TMEM4	transmembrane protein 4	1.9	-1.5			-3.3
TMEM87A	transmembrane protein 87A	1.2	1.3			
TMF1	TATA element modulatory factor 1	2.1	1.7	-1.2		-2.2
TMP21	transmembrane emp24-like trafficking protein 10 (yeast)	1.5				2.0
TMPO	thymopoietin	-2.2	1.4			1.7
TMSB10	thymosin, beta 10	-1.9	1.6	1.4	2.2	3.2
TMSL8	thymosin-like 8	-5.4				2.0
TNFAIP8	tumor necrosis factor, alpha-induced protein 8	-1.5	-1.9	-1.3		-1.9
TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain	1.3				-2.0
TNFRSF1A	tumor necrosis factor receptor superfamily, member 1A	2.9				-5.7
TNKS	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	-1.7	2.5			1.3
TNPO1	transportin 1	-1.4	1.4			-1.6
TNPO3	transportin 3	1.4				
TOB1	transducer of ERBB2, 1	1.9	-1.6	1.6		
TOB2	transducer of ERBB2, 2	1.9	1.4			
TOMM20	translocase of outer mitochondrial membrane 20 homolog (yeast)	2.0		-1.5		-2.1
TOP2B	topoisomerase (DNA) II beta 180kDa	-1.9				1.4
TOPBP1	topoisomerase (DNA) II binding protein 1	-1.2				-1.5
TOX	thymus high mobility group box protein TOX	26.1	-1.6	-1.3		-32.2
TP53	tumor protein p53 (Li-Fraumeni syndrome)	-2.6	-2.5			
TP53BP2	tumor protein p53 binding protein, 2	2.0			1.7	
TPD52L2	tumor protein D52-like 2	-1.6				1.4
TPI1	triosephosphate isomerase 1	-1.5	-1.5			
TPMT	thiopurine S-methyltransferase	1.8				-2.2
TPP1	tripeptidyl peptidase I	1.7	1.4			-1.3
TPP2	tripeptidyl peptidase II	-1.3				-1.3
TPR	translocated promoter region (to activated MET oncogene)	1.4	-1.3			-1.6

TPST2	tyrosylprotein sulfotransferase 2	-1.7	2.0			2.9
TRA@	T cell receptor alpha locus	-38.6	-1.9		2.9	24.7
TRA1	heat shock protein 90kDa beta (Grp94), member 1	1.4				-2.2
TRA2A	transformer-2 alpha	2.6				-2.3
TRAF3	TNF receptor-associated factor 3	2.8				-7.4
TRAF3IP2	TRAF3 interacting protein 2	-5.3				3.8
TRAF4	TNF receptor-associated factor 4	-13.8	-1.7	-1.7	-1.5	
TRAM1	translocation associated membrane protein 1	3.3				-2.3
TRAM2	translocation associated membrane protein 2	-2.0	2.4	1.5	1.7	2.0
TRAPPC3	trafficking protein particle complex 3	1.4				-1.4
TRFP	Trf (TATA binding protein-related factor)-proximal homolog (Drosophila)	-1.7	-1.4			
TRIB2	tribbles homolog 2 (Drosophila)	6.1				-6.0
TRIM14	tripartite motif-containing 14	3.2	-2.4			-4.7
TRIM33	tripartite motif-containing 33	-1.6				-1.2
TRIM37	tripartite motif-containing 37	1.8	-1.3			-14.1
TRIP12	thyroid hormone receptor interactor 12	1.6	1.5			2.3
TRRAP	transformation/transcription domain-associated protein	-1.7				2.1
TSC2	tuberous sclerosis 2	-1.8	1.5			6.8
TSC22D1	TSC22 domain family, member 1	2.0	2.9			-2.4
TSC22D3	TSC22 domain family, member 3	5.2	17.5	33.1	20.4	20.0
TSFM	Ts translation elongation factor, mitochondrial	-1.2	-2.5	-1.5	-1.6	-1.6
TSNAX	translin-associated factor X	1.2	1.9	2.1	2.2	2.0
TSPAN5	tetraspanin 5	3.2		2.1		
TSR1	TSR1, 20S rRNA accumulation, homolog (S. cerevisiae)	-2.0	-2.4	-2.0	-2.0	-1.8
TTC3	tetratricopeptide repeat domain 3	2.3	-1.6			-5.1
TTF1	transcription termination factor, RNA polymerase I	-2.7	-1.3			1.8
TTF2	transcription termination factor, RNA polymerase II	-1.2				
TUBA1	tubulin, alpha 1	-4.4	2.1	10.4	3.0	13.5
TUBA3	tubulin, alpha 3	-10.6	1.7		-1.6	15.1
TUBB	tubulin, beta	-1.6				
TUBB2A	tubulin, beta 2A	-25.5	3.2			54.6
TUBB2C	tubulin, beta 2C	-1.3	1.4			
TUBB3	tubulin, beta 3	-1.8				
TUBGCP3	tubulin, gamma complex associated protein 3	-1.4				-1.7
TUFM	Tu translation elongation factor, mitochondrial	-1.5	-1.5		-1.3	
TXLNA	taxilin alpha	1.2				-2.0
TXN	thioredoxin	1.8	1.3		1.7	-1.5
TXN2	thioredoxin 2	-1.4				
TXNDC9	thioredoxin domain containing 9	1.5				-1.2
TXNIP	thioredoxin interacting protein	10.0	7.7	2.8	3.7	2.1
TXNL1	thioredoxin-like 1	1.3	-2.1			-1.4
TXNRD1	thioredoxin reductase 1	-1.3			-1.4	

TYMS	thymidylate synthetase	2.1	-1.2			-4.8
U2AF2	U2 small nuclear RNA auxiliary factor 2	-1.3				
UAP1	UDP-N-acetylglucosamine pyrophosphorylase 1	1.8	-2.3	-1.3	-1.5	-3.9
UBB	ubiquitin B	-1.6	1.7			1.5
UBE1	ubiquitin-activating enzyme E1 (A1S9T and BN75 temperature sensitivity complementing)	-1.3	-1.4			
UBE1L	ubiquitin-activating enzyme E1-like	-1.5	-1.4			1.8
UBE2C	ubiquitin-conjugating enzyme E2C	1.3	1.7			
UBE2D1	ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast)	-1.3				1.3
UBE2D2	ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)	-1.9	1.6			4.1
UBE2D3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	-1.3	1.3		-1.3	1.6
UBE2E1	ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog, yeast)	1.4				-1.8
UBE2E3	ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast)	2.2				-2.1
UBE2G1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)	-1.6				
UBE2I	ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	-4.5	-1.2			2.8
UBE2J1	ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast)	1.5	1.5			-1.5
UBE2L3	ubiquitin-conjugating enzyme E2L 3	1.5	-2.1			-2.1
UBE2L6	ubiquitin-conjugating enzyme E2L 6	-2.0	-1.7	-1.2	-1.3	
UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	-1.4	-1.3			
UBE2V2	ubiquitin-conjugating enzyme E2 variant 2	-1.4	-1.3			-1.7
UBE3A	ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome)	-5.8	1.4	-1.4		8.6
UBE3C	ubiquitin protein ligase E3C	-1.3				
UBE4B	ubiquitination factor E4B (UFD2 homolog, yeast)	1.3				-1.3
UBN1	ubinuclen 1	-1.8	-1.2			1.3
UBTF	upstream binding transcription factor, RNA polymerase I	-1.2	-1.3	-1.3		-1.4
UCK2	uridine-cytidine kinase 2	-1.7	-1.4			-3.0
UCP2	uncoupling protein 2 (mitochondrial, proton carrier)	1.3				
UGCG	UDP-glucose ceramide glucosyltransferase	-2.4	1.2			3.0
UMPS	uridine monophosphate synthetase (orotate phosphoribosyl transferase and orotidine-5'-decarboxylase)	-1.3		-1.3		-1.6
UPF2	UPF2 regulator of nonsense transcripts homolog (yeast)	2.2				-2.0
UPF3A	UPF3 regulator of nonsense transcripts homolog A (yeast)	-1.4				1.4
UQCR	ubiquinol-cytochrome c reductase, 6.4kDa subunit	-1.3				
UQCRC2	ubiquinol-cytochrome c reductase core protein II	-1.6				1.8
UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	1.2				-1.6
UQCRH	ubiquinol-cytochrome c reductase hinge protein	1.5				-1.9
UROD	uroporphyrinogen decarboxylase	2.2				-2.4
UROS	uroporphyrinogen III synthase (congenital erythropoietic porphyria)	2.4	1.6			-6.2
USF2	upstream transcription factor 2, c-fos interacting	-1.5				1.6
USP1	ubiquitin specific peptidase 1	-1.5			-1.4	
USP11	ubiquitin specific peptidase 11	-1.6	1.3			1.4
USP12	ubiquitin specific peptidase 12	-2.0	2.3			3.7
USP14	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)	1.3	-1.3			-1.7
USP22	ubiquitin specific peptidase 22	-2.6				2.7

USP24	ubiquitin specific peptidase 24	1.4	1.3			-1.3
USP32	ubiquitin specific peptidase 32	3.1				-2.2
USP33	ubiquitin specific peptidase 33	1.5	1.3			
USP34	ubiquitin specific peptidase 34	1.3	1.8			2.6
USP4	ubiquitin specific peptidase 4 (proto-oncogene)	-1.7	1.3			2.4
USP46	ubiquitin specific peptidase 46	3.5				-3.0
USP6	ubiquitin specific peptidase 6 (Tre-2 oncogene)	1.4	-1.3			
USP7	ubiquitin specific peptidase 7 (herpes virus-associated)	-3.0				2.6
UTX	ubiquitously transcribed tetratricopeptide repeat, X chromosome	-1.6	1.4			2.9
UVRAG	UV radiation resistance associated gene	1.6			1.5	
VAMP2	vesicle-associated membrane protein 2 (synaptobrevin 2)	-4.2	-1.3			4.9
VAMP3	vesicle-associated membrane protein 3 (cellubrevin)	1.3	1.3			1.5
VAMP4	vesicle-associated membrane protein 4	-2.6				2.7
VAMP8	vesicle-associated membrane protein 8 (endobrevin)	2.0				-4.1
VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	1.3				-1.7
VCL	vinculin	1.9	-1.5		1.9	-1.4
VCP	valosin-containing protein	1.3	-1.3			-1.4
VDAC1	voltage-dependent anion channel 1	1.6		-1.6	-1.7	-3.1
VDAC2	voltage-dependent anion channel 2	1.9			-1.5	-2.1
VDAC3	voltage-dependent anion channel 3	1.8				-1.9
VDP	vesicle docking protein p115	2.0				-1.6
VEGF	vascular endothelial growth factor A	8.2	-2.4	-1.5		-13.8
VEGFB	vascular endothelial growth factor B	-2.5				
VGLL4	vestigial like 4 (Drosophila)	1.3				
VIL2	villin 2 (ezrin)	-2.2	2.4			9.8
VIM	vimentin	-275.9	1.2			360.4
VLDLR	very low density lipoprotein receptor	-4.7	-1.2			2.6
VPS11	vacuolar protein sorting 11 homolog (S. cerevisiae)	1.6				
VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)	3.7			-1.3	-2.8
VPS26	vacuolar protein sorting 26 homolog A (yeast)	1.5	1.3			
VTI1B	vesicle transport through interaction with t-SNAREs homolog 1B (yeast)	1.7	1.3			-1.7
WARS	tryptophanyl-tRNA synthetase	-1.5	-3.3			-1.8
WBP4	WW domain binding protein 4 (formin binding protein 21)	-1.2				1.5
WBSCR1	eukaryotic translation initiation factor 4H	-2.4				1.5
WDR1	WD repeat domain 1	-2.5				2.8
WEE1	WEE1 homolog (S. pombe)	-1.4	1.2			
WIT-1	Wilms tumor upstream neighbor 1	-2.4				2.5
WSB1	WD repeat and SOCS box-containing 1	9.0	2.0			-2.0
WSB2	WD repeat and SOCS box-containing 2	1.4	1.3			-1.7
WT1	Wilms tumor 1	-1.6	1.4	-1.5	-1.8	-1.7
WTAP	Wilms tumor 1 associated protein	-1.5	1.7			1.8
WWOX	WW domain containing oxidoreductase	-1.4	-1.7			

XAB1	XPA binding protein 1, GTPase	-1.6				1.6
XIST	X (inactive)-specific transcript	-808.5				1094.1
XPNPEP1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	3.2				-3.9
XPO1	exportin 1 (CRM1 homolog, yeast)	-1.4				4.3
XPO7	exportin 7	4.8	1.3			-2.7
XPOT	exportin, tRNA (nuclear export receptor for tRNAs)	1.6	-3.2			-6.4
XRCC3	X-ray repair complementing defective repair in Chinese hamster cells 3	-1.7				
XRCC4	X-ray repair complementing defective repair in Chinese hamster cells 4	-1.8	1.4			1.6
XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining; Ku autoantigen, 80kDa)	-2.0	-1.7			
YAF2	YY1 associated factor 2	1.7	1.9	1.8	1.6	5.8
YARS	tyrosyl-tRNA synthetase	-1.9	-2.6			-2.4
YES1	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	49.1			1.3	-63.8
YME1L1	YME1-like 1 (<i>S. cerevisiae</i>)	1.7	-1.2			-1.7
YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	-2.5	-1.6			2.2
YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	-1.7	1.6			1.5
YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	-2.5	1.7			3.9
YY1	YY1 transcription factor	2.7				-2.7
ZAP70	zeta-chain (TCR) associated protein kinase 70kDa	-10.1			-1.3	13.8
ZBTB1	zinc finger and BTB domain containing 1	-1.4				1.6
ZC3HAV1	zinc finger CCCH-type, antiviral 1	-1.7	1.4			2.6
ZFP36L1	zinc finger protein 36, C3H type-like 1	-24.5				11.5
ZFP36L2	zinc finger protein 36, C3H type-like 2	2.2	1.8	3.0	2.5	
ZFX	zinc finger protein, X-linked	-1.6				1.7
ZHX2	zinc fingers and homeoboxes 2	-5.1	1.3			6.9
ZHX3	zinc fingers and homeoboxes 3	2.0	2.0			
ZMPSTE24	zinc metalloproteinase (STE24 homolog, yeast)	1.4				-1.8
ZMYND11	zinc finger, MYND domain containing 11	2.6	1.3			
ZNF143	zinc finger protein 143	-1.4				
ZNF148	zinc finger protein 148	1.8	1.8	1.3		-1.6
ZNF160	zinc finger protein 160	-1.7	1.5			1.6
ZNF161	vascular endothelial zinc finger 1	-1.9				2.2
ZNF175	zinc finger protein 175	2.9				-2.6
ZNF198	zinc finger, MYM-type 2	4.3	-1.3			-2.5
ZNF202	zinc finger protein 202	-1.4	-1.8			
ZNF207	zinc finger protein 207	2.4	-1.4			
ZNF22	zinc finger protein 22 (KOX 15)	-1.3				1.3
ZNF238	zinc finger protein 238	-5.5				6.3
ZNF259	zinc finger protein 259	-1.2		-1.4	-1.8	-1.6
ZNF263	zinc finger protein 263	-1.7	-1.7			1.8
ZNF267	zinc finger protein 267	1.9				-1.9
ZNF291	zinc finger protein 291	1.4	1.6			2.1
ZNF318	zinc finger protein 318	2.3	1.3			

ZNF354A	zinc finger protein 354A	2.6				
ZNF364	zinc finger protein 364	1.3	1.8			3.0
ZNF384	zinc finger protein 384	-1.6	-1.6			
ZNF423	zinc finger protein 423	-3.6	-2.2			5.6
ZNF451	zinc finger protein 451	2.5				-1.6
ZNF592	zinc finger protein 592	-1.7	1.3			1.4
ZNF91	zinc finger protein 91	-2.2				2.2
ZNFN1A1	IKAROS family zinc finger 1 (Ikaros)	2.2	1.3			2.2
ZRF1	zuotin related factor 1	1.4	-1.5			-2.9
ZUBR1	zinc finger, UBR1 type 1	2.0				-1.9