

**Table S1. List of TNFAIP8 interacting proteins identified by antibody microarray analysis**

ID	Symbol	Fold Change <sup>1</sup>	P-value <sup>2</sup>	Entrez Gene Name	Location	Type(s)
P01375	TNF	2.1	8.83E-03	tumor necrosis factor	Extracellular Space	cytokine
O14893	SIP1	2	2.64E-03	survival of motor neuron protein interacting protein 1	Nucleus	other
<b>P56159</b>	<b>GFRA1</b>	<b>2</b>	<b>4.00E-05</b>	<b>GDNF family receptor alpha 1</b>	<b>Plasma Membrane</b>	<b>transmembrane receptor</b>
Q92854	SEMA4D	2	3.23E-03	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	Plasma Membrane	other
P28482	MAPK1	1.9	3.41E-03	mitogen-activated protein kinase 1	Cytoplasm	kinase
P54687	BCAT1	1.8	3.16E-03	branched chain amino-acid transaminase 1, cytosolic	Cytoplasm	enzyme
P48725	PCNT	1.8	2.43E-03	pericentrin	Cytoplasm	other
Q6GTX8	LAIR1	1.8	3.34E-03	leukocyte-associated immunoglobulin-like receptor 1	Plasma Membrane	transmembrane receptor
P08700	IL3	1.8	2.13E-03	interleukin 3 (colony-stimulating factor, multiple)	Extracellular Space	other
O14920	IKBKB	1.8	3.83E-03	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	Cytoplasm	kinase
<b>P09874</b>	<b>PARP1</b>	<b>1.8</b>	<b>4.00E-05</b>	<b>poly (ADP-ribose) polymerase 1</b>	<b>Nucleus</b>	<b>enzyme</b>
P11233	RALA	1.8	5.67E-03	v-ral simian leukemia viral oncogene homolog A (ras related)	Cytoplasm	enzyme
Q14980	NUMA1	1.8	3.56E-02	nuclear mitotic apparatus protein 1	Nucleus	other
Q9NQX3	GPHN	1.8	1.34E-03	gephyrin	Plasma Membrane	enzyme

P12956	XRCC6	1.7	1.14E-03	X-ray repair complementing defective repair in Chinese hamster cells 6	Nucleus	enzyme
P49736	MCM2	1.7	3.92E-03	minichromosome maintenance complex component 2	Nucleus	enzyme
Q12828	FUBP1	1.7	3.10E-04	far upstream element (FUSE) binding protein 1	Nucleus	transcription regulator
O75884	RBBP9	1.7	9.46E-03	retinoblastoma binding protein 9	Nucleus	other
P06239	LCK	1.7	7.33E-03	lymphocyte-specific protein tyrosine kinase	Cytoplasm	kinase
Q13371	PDCL	1.7	7.70E-04	phosducin-like	Cytoplasm	enzyme
Q14209	E2F2	1.7	9.30E-04	E2F transcription factor 2	Nucleus	transcription regulator
Q92529	SHC3	1.7	7.13E-03	SHC (Src homology 2 domain containing) transforming protein 3	Cytoplasm	other
P28223	HTR2A	1.6	1.22E-02	5-hydroxytryptamine (serotonin) receptor 2A	Plasma Membrane	G-protein coupled receptor
P50552	VASP	1.6	2.96E-03	vasodilator-stimulated phosphoprotein	Plasma Membrane	other
Q13115	DUSP4	1.6	1.41E-02	dual specificity phosphatase 4	Nucleus	phosphatase
Q13439	GOLGA4	1.6	6.34E-03	golgin A4	Cytoplasm	other
P05556	ITGB1	1.6	6.90E-04	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	Plasma Membrane	transmembrane receptor
P27540	ARNT	1.6	2.60E-04	aryl hydrocarbon receptor nuclear translocator	Nucleus	transcription regulator

P07992	ERCC1	1.6	2.11E-03	excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)	Nucleus	enzyme
Q08209	PPP3CA	1.6	3.62E-03	protein phosphatase 3, catalytic subunit, alpha isozyme	Cytoplasm	phosphatase
P29597	TYK2	1.6	4.80E-04	tyrosine kinase 2	Plasma Membrane	kinase
Q9ULB1	NRXN1	1.6	3.07E-03	neurexin 1	Plasma Membrane	transporter
P23458	JAK1	1.6	2.92E-03	Janus kinase 1	Cytoplasm	kinase
P09525	ANXA4	1.6	4.34E-03	annexin A4	Plasma Membrane	other
P35568	IRS1	1.6	6.50E-04	insulin receptor substrate 1	Cytoplasm	other
Q02880	TOP2B	1.6	1.45E-03	topoisomerase (DNA) II beta 180kDa	Nucleus	enzyme
P17301	ITGA2	1.6	6.90E-04	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	Plasma Membrane	other
P11488	GNAT1	1.6	8.00E-04	guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 1	Plasma Membrane	enzyme
O43294	TGFB111	1.6	2.40E-04	transforming growth factor beta 1 induced transcript 1	Nucleus	transcription regulator
P43146	DCC	1.5	3.68E-03	deleted in colorectal carcinoma	Plasma Membrane	transmembrane receptor
P24385	CCND1	1.5	9.90E-04	cyclin D1	Nucleus	other
Q9H4B4	PLK3	1.5	5.17E-03	polo-like kinase 3	Nucleus	kinase
P49427	CDC34	1.5	2.40E-04	cell division cycle 34 homolog ( <i>S. cerevisiae</i> )	Nucleus	enzyme
Q12929	EPS8	1.5	1.55E-03	epidermal growth factor receptor pathway substrate 8	Plasma Membrane	peptidase

Q9NVN2	SLC4A1A P	1.5	2.46E-03	solute carrier family 4 (anion exchanger), member 1, adaptor protein	Cytoplasm	transporter
Q12873	CHD3	1.5	1.09E-03	chromodomain helicase DNA binding protein 3	Nucleus	enzyme
<b>Q01130</b>	<b>SRSF2</b>	<b>1.5</b>	<b>4.00E-06</b>	<b>serine/arginine-rich splicing factor 2</b>	<b>Nucleus</b>	<b>transcription regulator</b>
P40337	VHL	1.5	2.86E-03	von Hippel-Lindau tumor suppressor	Nucleus	other
Q99960	PKP2	1.5	3.32E-03	plakophilin 2	Plasma Membrane	other
P29350	PTPN6	1.5	7.40E-03	protein tyrosine phosphatase, non-receptor type 6	Cytoplasm	phosphatase
<b>P52292</b>	<b>KPNA2</b>	<b>1.5</b>	<b>1.90E-04</b>	<b>karyopherin alpha 2 (RAG cohort 1, importin alpha 1)</b>	<b>Nucleus</b>	<b>transporter</b>
P49023	PXN	1.5	5.18E-02	paxillin	Cytoplasm	other
Q07666	KHDRBS1	1.4	3.06E-03	KH domain containing, RNA binding, signal transduction associated 1	Nucleus	transcription regulator
Q16513	PKN2	1.4	2.99E-03	protein kinase N2	Cytoplasm	kinase
P11229	CHRM1	1.4	6.09E-03	cholinergic receptor, muscarinic 1	Plasma Membrane	G-protein coupled receptor
Q9H252	KCNH6	1.4	1.34E-01	potassium voltage-gated channel, subfamily H (eag- related), member 6	Plasma Membrane	ion channel
P11387	TOP1	1.4	6.97E-03	topoisomerase (DNA) I	Nucleus	enzyme
O00499	BIN1	1.4	4.72E-03	bridging integrator 1	Nucleus	other
P02649	APOE	1.4	2.73E-03	apolipoprotein E	Extracellular Space	transporter
P13861	PRKAR2A	1.4	4.02E-03	protein kinase, cAMP- dependent, regulatory, type II, alpha	Cytoplasm	kinase
Q969Q5	RAB24	1.4	1.04E-02	RAB24, member RAS oncogene family	unknown	other

P35221	CTNNA1	1.4	2.30E-03	catenin (cadherin-associated protein), alpha 1, 102kDa	Plasma Membrane	other
Q06124	PTPN11	1.4	1.26E-02	protein tyrosine phosphatase, non-receptor type 11	Cytoplasm	phosphatase
P49185	MAPK8	1.4	7.91E-03	mitogen-activated protein kinase 8	Cytoplasm	kinase
<b>Q9UHI6</b>	<b>DDX20</b>	<b>1.4</b>	<b>1.90E-04</b>	<b>DEAD (Asp-Glu-Ala-Asp) box polypeptide 20</b>	<b>Nucleus</b>	<b>transcription regulator</b>
O60588	CEP250	1.4	1.60E-02	centrosomal protein 250kDa	Nucleus	other
P33151	CDH5	1.4	9.70E-04	cadherin 5, type 2 (vascular endothelium)	Plasma Membrane	other
P53041	PPP5C	1.4	6.92E-02	protein phosphatase 5, catalytic subunit	Nucleus	phosphatase
P05060	CHGB	1.4	1.46E-02	chromogranin B (secretogranin 1)	Extracellular Space	other
O14617	AP3D1	1.4	1.73E-02	adaptor-related protein complex 3, delta 1 subunit	Cytoplasm	transporter
P28340	POLD1	1.4	3.48E-03	polymerase (DNA directed), delta 1, catalytic subunit 125kDa	Nucleus	enzyme
Q99638	RAD9A	1.4	9.74E-02	RAD9 homolog A (S. pombe)	Nucleus	enzyme
P30281	CCND3	1.4	3.50E-04	cyclin D3	Nucleus	other
O43933	PEX1	1.4	5.92E-03	peroxisomal biogenesis factor 1	Cytoplasm	enzyme
Q13617	CUL2	1.4	7.85E-03	cullin 2	Nucleus	enzyme
P07339	CTSD	1.4	4.24E-03	cathepsin D	Cytoplasm	peptidase
P19174	PLCG1	1.4	3.26E-02	phospholipase C, gamma 1	Cytoplasm	enzyme
Q92620	DHX38	1.3	1.94E-02	DEAH (Asp-Glu-Ala-His) box polypeptide 38	Nucleus	enzyme
Q62868	ROCK2	1.3	3.26E-02	Rho-associated, coiled-coil containing protein kinase 2	Cytoplasm	kinase
P50613	CDK7	1.3	9.20E-04	cyclin-dependent kinase 7	Nucleus	kinase
P00533	EGFR	1.3	3.09E-02	epidermal growth factor receptor	Plasma Membrane	kinase

Q9BY75	ITCH	1.3	8.59E-03	itchy E3 ubiquitin protein ligase homolog (mouse)	Nucleus	enzyme
P55060	CSE1L	1.3	7.95E-03	CSE1 chromosome segregation 1-like (yeast)	Nucleus	transporter
O75746	SLC25A1 2	1.3	3.95E-03	solute carrier family 25 (mitochondrial carrier, Aralar), member 12	Cytoplasm	transporter
<b>P18031</b>	<b>PTPN1</b>	<b>1.3</b>	<b>1.50E-04</b>	<b>protein tyrosine phosphatase, non-receptor type 1</b>	<b>Cytoplasm</b>	<b>phosphatase</b>
P27824	CANX	1.3	2.56E-02	calnexin	Cytoplasm	other
P04839	CYBB	1.3	9.10E-02	cytochrome b-245, beta polypeptide	Cytoplasm	enzyme
Q13443	ADAM9	1.3	4.91E-03	ADAM metalloproteinase domain 9	Plasma Membrane	peptidase
Q16512	PKN1	1.3	1.24E-02	protein kinase N1	Cytoplasm	kinase
O43602	DCX	1.3	1.54E-03	doublecortin	Cytoplasm	other
O75498	BLNK	1.3	1.38E-01	B-cell linker	Cytoplasm	other
Q09028	RBBP4	1.3	5.35E-03	retinoblastoma binding protein 4	Nucleus	enzyme
O15350	TP73	1.3	9.86E-03	tumor protein p73	Nucleus	transcription regulator
O70161	PIP5K1C	1.3	1.12E-01	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma	Plasma Membrane	kinase
P55010	EIF5	1.3	3.30E-04	eukaryotic translation initiation factor 5	Cytoplasm	translation regulator
Q9NYM9	BET1L	1.3	7.37E-03	blocked early in transport 1 homolog ( <i>S. cerevisiae</i> )-like	Cytoplasm	transporter
Q16667	CDKN3	1.3	9.77E-02	cyclin-dependent kinase inhibitor 3	Nucleus	phosphatase
O14578	CIT	1.3	1.68E-01	citron (rho-interacting, serine/threonine kinase 21)	Cytoplasm	kinase
P08567	PLEK	1.3	2.86E-03	pleckstrin	Cytoplasm	other
P42166	TMPO	1.3	2.92E-03	thymopoietin	Nucleus	other
P10415	BCL2	1.3	2.51E-03	B-cell CLL/lymphoma 2	Cytoplasm	other
P17677	GAP43	1.3	9.00E-03	growth associated protein 43	Plasma Membrane	other

Q92886	NEUROG1	1.3	8.93E-02	neurogenin 1	Nucleus	transcription regulator
Q9UHG3	PCYOX1	1.3	8.77E-03	prenylcysteine oxidase 1	Cytoplasm	enzyme
Q9ULV5	HSF4	1.3	1.04E-02	heat shock transcription factor 4	Nucleus	transcription regulator
P04150	NR3C1	1.3	2.54E-03	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	Nucleus	ligand-dependent nuclear receptor
O95351	HSPBP1	1.3	2.57E-03	HSPA (heat shock 70kDa) binding protein, cytoplasmic cochaperone 1	unknown	other
P98082	DAB2	1.3	1.18E-02	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	Plasma Membrane	other
O14776	TCERG1	1.3	4.81E-03	transcription elongation regulator 1	Nucleus	transcription regulator
P28335	HTR2C	1.3	4.57E-02	5-hydroxytryptamine (serotonin) receptor 2C	Plasma Membrane	G-protein coupled receptor
Q12890	SRPK1	1.3	3.17E-03	SRSF protein kinase 1	Nucleus	kinase
P46934	NEDD4	1.3	3.52E-03	neural precursor cell expressed, developmentally down-regulated 4	Cytoplasm	enzyme
P14635	CCNB1	1.3	6.32E-03	cyclin B1	Cytoplasm	other
P05455	SSB	1.2	4.34E-02	Sjogren syndrome antigen B (autoantigen La)	Nucleus	enzyme
Q9UPG4	NCOA3	1.2	6.74E-03	nuclear receptor coactivator 3	Nucleus	transcription regulator
P26992	CNTFR	1.2	5.66E-03	ciliary neurotrophic factor receptor	Plasma Membrane	transmembrane receptor
P36952	SERPINB5	1.2	1.40E-02	serpin peptidase inhibitor, clade B (ovalbumin), member 5	Extracellular Space	other
P25054	APC	1.2	2.48E-03	adenomatous polyposis coli	Nucleus	enzyme
Q13263	TRIM28	1.2	1.46E-01	tripartite motif containing 28	Nucleus	transcription regulator

P37268	FDFT1	1.2	1.93E-02	farnesyl-diphosphate farnesyltransferase 1	Cytoplasm	enzyme
Q99523	SORT1	1.2	9.08E-03	sortilin 1	Cytoplasm	transporter
Q9NR28	DIABLO	1.2	3.48E-02	diablo, IAP-binding mitochondrial protein	Cytoplasm	other
O60620	KATNB1	1.2	2.10E-04	katanin p80 (WD repeat containing) subunit B 1	Cytoplasm	enzyme
P49327	FASN	1.2	8.30E-03	fatty acid synthase	Cytoplasm	enzyme
Q8TCG7	XIRP1	1.2	1.36E-01	xin actin-binding repeat containing 1	Plasma Membrane	other
Q9Y6Q3	ZFP37	1.2	4.10E-03	zinc finger protein 37 homolog (mouse)	Nucleus	transcription regulator
P29475	NOS1	1.2	1.33E-03	nitric oxide synthase 1 (neuronal)	Cytoplasm	enzyme
P39748	FEN1	1.2	1.04E-02	flap structure-specific endonuclease 1	Nucleus	enzyme
Q9Y6E0	STK24	1.2	1.35E-01	serine/threonine kinase 24	Cytoplasm	kinase
O00221	NFKBIE	1.2	1.89E-02	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	Nucleus	transcription regulator
P23025	XPA	1.2	2.15E-02	xeroderma pigmentosum, complementation group A	Nucleus	other
Q96AY3	FKBP10	1.2	1.57E-02	FK506 binding protein 10, 65 kDa	Cytoplasm	enzyme
O43913	ORC5	1.2	1.06E-02	origin recognition complex, subunit 5	Nucleus	other
Q9Y250	LZTS1	1.2	4.40E-04	leucine zipper, putative tumor suppressor 1	Nucleus	transcription regulator
P40692	MLH1	1.2	5.65E-03	mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)	Nucleus	enzyme
Q13158	FADD	1.2	6.55E-03	Fas (TNFRSF6)-associated via death domain	Cytoplasm	other



Q14254	FLOT2	1.2	7.84E-03	flotillin 2	Plasma Membrane	other
P18754	RCC1	1.2	2.06E-02	regulator of chromosome condensation 1	Cytoplasm	other
Q92748	THRSP	1.2	3.81E-03	thyroid hormone responsive	Nucleus	other
Q9BPW1	TREX1	1.2	1.84E-02	three prime repair exonuclease 1	Nucleus	enzyme
Q9Z2Y3	HOMER1	1.2	8.04E-02	homer homolog 1 (Drosophila)	Plasma Membrane	other
Q9NYF8	BCLAF1	1.2	6.28E-02	BCL2-associated transcription factor 1	Nucleus	transcription regulator
P55196	MLLT4	1.2	8.91E-03	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4	Nucleus	other
O14981	BTAF1	1.2	4.59E-02	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (Mot1 homolog, S. cerevisiae)	Nucleus	transcription regulator
O14490	DLGAP1	1.2	1.67E-01	discs, large (Drosophila) homolog-associated protein 1	Plasma Membrane	other
P47736	RAP1GAP	1.2	2.84E-02	RAP1 GTPase activating protein	Cytoplasm	other
Q96DL0	NEXN	1.2	2.84E-01	nexilin (F actin binding protein)	Plasma Membrane	other
Q99730	HTATSF1	1.2	9.80E-03	HIV-1 Tat specific factor 1	Nucleus	transcription regulator
Q02548	PAX5	1.2	1.55E-02	paired box 5	Nucleus	transcription regulator
O43684	BUB3	1.2	2.37E-02	budding uninhibited by benzimidazoles 3 homolog (yeast)	Nucleus	other
P30658	CBX2	1.2	7.88E-03	chromobox homolog 2	Nucleus	transcription regulator
P04114	APOB	1.2	4.01E-03	apolipoprotein B (including Ag(x) antigen)	Extracellular Space	transporter
P46013	MKI67	1.2	1.50E-01	antigen identified by monoclonal antibody Ki-67	Nucleus	other

P52565	ARHGDI A	1.2	2.07E-02	Rho GDP dissociation inhibitor (GDI) alpha	Cytoplasm	other
P07900	HSP90AA 1	1.2	1.46E-01	heat shock protein 90kDa alpha (cytosolic), class A member 1	Cytoplasm	enzyme
Q13323	BIK	1.2	4.82E-03	BCL2-interacting killer (apoptosis-inducing)	Cytoplasm	other
<b>P24864</b>	<b>CCNE1</b>	<b>1.2</b>	<b>4.00E-05</b>	<b>cyclin E1</b>	<b>Nucleus</b>	<b>transcription regulator</b>
Q9BR65	HRAS	1.2	4.39E-03	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	Plasma Membrane	enzyme
P40763	STAT3	1.2	8.00E-04	signal transducer and activator of transcription 3 (acute-phase response factor)	Nucleus	transcription regulator
P46108	CRK	1.2	1.55E-02	v-crck sarcoma virus CT10 oncogene homolog (avian)	Cytoplasm	other
P14136	GFAP	1.2	3.88E-02	glial fibrillary acidic protein	Cytoplasm	other
Q16665	HIF1A	1.2	6.10E-04	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	Nucleus	transcription regulator
<b>Q13224</b>	<b>GRIN2B</b>	<b>1.2</b>	<b>1.20E-04</b>	<b>glutamate receptor, ionotropic, N-methyl D-aspartate 2B</b>	<b>Plasma Membrane</b>	<b>ion channel</b>
P04637	TP53	1.2	1.60E-02	tumor protein p53	Nucleus	transcription regulator
Q99704	DOK1	1.2	3.93E-02	docking protein 1, 62kDa (downstream of tyrosine kinase 1)	Plasma Membrane	other
Q9UPH5	DNM2	1.1	3.99E-03	dynamins 2	Plasma Membrane	enzyme
Q9Y624	F11R	1.1	1.93E-03	F11 receptor	Plasma Membrane	other
Q92598	HSPH1	1.1	2.29E-02	heat shock 105kDa/110kDa protein 1	Cytoplasm	other
Q15185	PTGES3	1.1	5.51E-02	prostaglandin E synthase 3 (cytosolic)	Cytoplasm	enzyme

P20338	RAB4A	1.1	1.04E-02	RAB4A, member RAS oncogene family	Cytoplasm	enzyme
P43403	ZAP70	1.1	4.92E-03	zeta-chain (TCR) associated protein kinase 70kDa	Plasma Membrane	kinase
Q01814	ATP2B2	1.1	1.01E-02	ATPase, Ca <sup>++</sup> transporting, plasma membrane 2	Plasma Membrane	transporter
P20248	CCNA2	1.1	6.38E-02	cyclin A2	Nucleus	other
Q08999	RBL2	1.1	1.46E-01	retinoblastoma-like 2 (p130)	Nucleus	other
P35228	NOS2	1.1	9.20E-03	nitric oxide synthase 2, inducible	Cytoplasm	enzyme
P42226	STAT6	1.1	9.57E-03	signal transducer and activator of transcription 6, interleukin-4 induced	Nucleus	transcription regulator
O75521	ECI2	1.1	2.74E-02	enoyl-CoA delta isomerase 2	Cytoplasm	enzyme
P07947	YES1	1.1	2.56E-02	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	Cytoplasm	kinase
P38936	CDKN1A	1.1	1.19E-01	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	Nucleus	other
P11802	CDK4	1.1	9.13E-02	cyclin-dependent kinase 4	Nucleus	kinase
O75791	GRAP2	1.1	1.27E-02	GRB2-related adaptor protein 2	Cytoplasm	other
P29459	IL12A	1.1	2.54E-02	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	Extracellular Space	cytokine
P10586	PTPRF	1.1	1.66E-02	protein tyrosine phosphatase, receptor type, F	Plasma Membrane	phosphatase
Q14221	EEA1	1.1	1.06E-02	early endosome antigen 1	Cytoplasm	other
P14317	HCLS1	1.1	4.21E-02	hematopoietic cell-specific Lyn substrate 1	Nucleus	transcription regulator

P55212	CASP6	1.1	3.62E-03	caspase 6, apoptosis-related cysteine peptidase	Cytoplasm	peptidase
P28347	TEAD1	1.1	8.67E-03	TEA domain family member 1 (SV40 transcriptional enhancer factor)	Nucleus	transcription regulator
Q9NQ66	PLCB1	1.1	1.76E-01	phospholipase C, beta 1 (phosphoinositide-specific)	Cytoplasm	enzyme
Q14186	TFDP1	1.1	4.45E-03	transcription factor Dp-1	Nucleus	transcription regulator
P10645	CHGA	1.1	7.22E-03	chromogranin A (parathyroid secretory protein 1)	Extracellular Space	other
P51965	UBE2E1	1.1	1.44E-02	ubiquitin-conjugating enzyme E2E 1	Cytoplasm	enzyme
P55210	CASP7	1.1	7.07E-02	caspase 7, apoptosis-related cysteine peptidase	Cytoplasm	peptidase
O15359	GTF2I	1.1	7.01E-03	general transcription factor Iii	Nucleus	transcription regulator
O15075	DCLK1	1.1	6.35E-02	doublecortin-like kinase 1	Plasma Membrane	kinase
Q02156	PRKCE	1.1	1.49E-02	protein kinase C, epsilon	Cytoplasm	kinase
Q9NYF9	GOLGA2	1.1	2.49E-02	golgin A2	Cytoplasm	other
P37198	NUP62	1.1	8.13E-03	nucleoporin 62kDa	Nucleus	transporter
Q9UPY8	MAPRE3	1.1	1.45E-02	microtubule-associated protein, RP/EB family, member 3	Cytoplasm	enzyme
Q13137	CALCO2	1.1	8.16E-03	calcium binding and coiled-coil domain 2	Nucleus	other
P30279	CCND2	1.1	1.83E-01	cyclin D2	Nucleus	other
Q12959	DLG1	1.1	6.00E-04	discs, large homolog 1 (Drosophila)	Plasma Membrane	kinase
Q13485	SMAD4	1.1	1.73E-02	SMAD family member 4	Nucleus	transcription regulator
Q12979	ABR	1.1	6.16E-03	active BCR-related gene	Cytoplasm	other
P19878	NCF2	1.1	1.13E-01	neutrophil cytosolic factor 2	Cytoplasm	enzyme
P06396	GSN	1.1	5.33E-02	gelsolin	Extracellular Space	other

O00418	EEF2K	1.1	1.21E-02	eukaryotic elongation factor-2 kinase	Cytoplasm	kinase
P15918	RAG1	1.1	4.07E-03	recombination activating gene 1	Nucleus	enzyme
P02751	FN1	1.1	8.38E-02	fibronectin 1	Extracellular Space	enzyme
O75970	MPDZ	1.1	6.21E-02	multiple PDZ domain protein	Plasma Membrane	other
O15111	CHUK	1.1	2.01E-02	conserved helix-loop-helix ubiquitous kinase	Cytoplasm	kinase
P15923	TCF3	1.1	2.01E-02	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	Nucleus	transcription regulator
P52732	KIF11	1.1	4.52E-02	kinesin family member 11	Nucleus	other
P51452	DUSP3	1.1	5.30E-04	dual specificity phosphatase 3	Cytoplasm	phosphatase
P25101	EDNRA	1.1	4.61E-02	endothelin receptor type A	Plasma Membrane	transmembrane receptor
P98170	XIAP	1.1	2.89E-02	X-linked inhibitor of apoptosis	Cytoplasm	other
P53350	PLK1	1.1	2.20E-02	polo-like kinase 1	Nucleus	kinase
Q12834	CDC20	1.1	3.10E-02	cell division cycle 20 homolog (S. cerevisiae)	Nucleus	other
Q13367	AP3B2	1.1	8.14E-02	adaptor-related protein complex 3, beta 2 subunit	Cytoplasm	transporter
Q16543	CDC37	1.1	2.83E-02	cell division cycle 37 homolog (S. cerevisiae)	Cytoplasm	other
Q15796	SMAD2	1.1	6.32E-02	SMAD family member 2	Nucleus	transcription regulator
O60749	SNX2	1.1	4.78E-03	sorting nexin 2	Cytoplasm	transporter
Q15418	RPS6KA1	1.1	3.87E-02	ribosomal protein S6 kinase, 90kDa, polypeptide 1	Cytoplasm	kinase
Q02410	APBA1	1.1	3.04E-02	amyloid beta (A4) precursor protein-binding, family A, member 1	Cytoplasm	transporter
Q13632	NPAT	1.1	5.12E-01	nuclear protein, ataxia-telangiectasia locus	Nucleus	transcription regulator

P13984	GTF2F2	1.1	1.83E-02	general transcription factor IIF, polypeptide 2, 30kDa	Nucleus	transcription regulator
O60496	DOK2	1.1	1.96E-02	docking protein 2, 56kDa	Plasma Membrane	other
Q9Y218	OPTN	1.1	2.00E-01	optineurin	Cytoplasm	other
P27695	APEX1	1.1	2.67E-03	APEX nuclease (multifunctional DNA repair enzyme) 1	Nucleus	enzyme
P41236	PPP1R2	1.1	4.23E-02	protein phosphatase 1, regulatory (inhibitor) subunit 2	Cytoplasm	phosphatase
P43246	MSH2	1.1	5.05E-01	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	Nucleus	enzyme
P11279	LAMP1	1.1	1.12E-01	lysosomal-associated membrane protein 1	Plasma Membrane	other
Q15276	RABEP1	1.1	1.62E-01	rabaptin, RAB GTPase binding effector protein 1	Cytoplasm	transporter
Q9Y2Y0	ARL2BP	1.1	1.04E-02	ADP-ribosylation factor-like 2 binding protein	Cytoplasm	transcription regulator
Q9HBL0	TNS1	1.1	3.48E-02	tensin 1	Plasma Membrane	other
O60716	CTNND1	1.1	3.34E-02	catenin (cadherin-associated protein), delta 1	Nucleus	other
O15264	MAPK13	1.1	2.09E-01	mitogen-activated protein kinase 13	Cytoplasm	kinase
Q9JJ19	SLC9A3R1	1.1	1.71E-03	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	Plasma Membrane	other
Q04759	PRKCQ	1.1	3.07E-01	protein kinase C, theta	Cytoplasm	kinase
Q13017	ARHGAP5	1.1	1.50E-02	Rho GTPase activating protein 5	Cytoplasm	enzyme
Q16611	BAK1	1.1	1.94E-01	BCL2-antagonist/killer 1	Cytoplasm	other
P10809	HSPD1	1.1	9.90E-04	heat shock 60kDa protein 1 (chaperonin)	Cytoplasm	enzyme
O75471	CDC40	1.1	1.21E-01	cell division cycle 40 homolog (S. cerevisiae)	Nucleus	other

Q9NY44	GSPT2	1	4.74E-01	G1 to S phase transition 2	Cytoplasm	translation regulator
Q99700	ATXN2	1	1.35E-02	ataxin 2	Nucleus	other
P25963	NFKBIA	1	4.81E-01	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	Cytoplasm	other
P52566	ARHGDI2	1	1.84E-02	Rho GDP dissociation inhibitor (GDI) beta	Cytoplasm	other
P11388	TOP2A	1	9.32E-02	topoisomerase (DNA) II alpha 170kDa	Nucleus	enzyme
O15156	ZBTB7B	1	1.06E-01	zinc finger and BTB domain containing 7B	Nucleus	transcription regulator
Q05655	PRKCD	1	2.65E-01	protein kinase C, delta	Cytoplasm	kinase
Q99567	NUP88	1	3.69E-02	nucleoporin 88kDa	Nucleus	transporter
P20339	RAB5A	1	1.10E-02	RAB5A, member RAS oncogene family	Cytoplasm	enzyme
P48764	SLC9A3	1	2.82E-01	solute carrier family 9 (sodium/hydrogen exchanger), member 3	Plasma Membrane	ion channel
P07099	EPHX1	1	2.84E-01	epoxide hydrolase 1, microsomal (xenobiotic)	Cytoplasm	peptidase
O43583	DENR	1	1.02E-01	density-regulated protein	unknown	other
P18074	ERCC2	1	8.88E-02	excision repair cross-complementing rodent repair deficiency, complementation group 2	Nucleus	enzyme
P14222	PRF1	1	3.32E-02	perforin 1 (pore forming protein)	Cytoplasm	other
P22303	ACHE	1	1.81E-02	acetylcholinesterase	Plasma Membrane	enzyme
P41240	CSK	1	1.56E-02	c-src tyrosine kinase	Cytoplasm	kinase

P04626	ERBB2	1	7.49E-02	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	Plasma Membrane	kinase
P21964	COMT	1	4.40E-01	catechol-O-methyltransferase	Cytoplasm	enzyme
Q14016	SCARB1	1	1.40E-01	scavenger receptor class B, member 1	Plasma Membrane	transporter
Q92793	CREBBP	1	2.55E-01	CREB binding protein	Nucleus	transcription regulator
P49959	MRE11A	1	1.14E-01	MRE11 meiotic recombination 11 homolog A ( <i>S. cerevisiae</i> )	Nucleus	enzyme
Q00610	CLTC	1	4.68E-02	clathrin, heavy chain (Hc)	Plasma Membrane	other
O60446	AURKB	1	5.57E-01	aurora kinase B	Nucleus	kinase
P16949	STMN1	1	1.91E-01	stathmin 1	Cytoplasm	other
Q15628	TRADD	1	1.12E-01	TNFRSF1A-associated via death domain	Cytoplasm	other
Q9UDT6	CLIP2	1	1.56E-01	CAP-GLY domain containing linker protein 2	Cytoplasm	transcription regulator
P80098	CCL7	1	7.26E-01	chemokine (C-C motif) ligand 7	Extracellular Space	cytokine
P54257	HAP1	1	1.21E-01	huntingtin-associated protein 1	Cytoplasm	other
O95980	RECK	1	1.62E-01	reversion-inducing-cysteine-rich protein with kazal motifs	Plasma Membrane	other
P51636	CAV2	1	1.79E-01	caveolin 2	Plasma Membrane	other
P27816	MAP4	1	1.70E-01	microtubule-associated protein 4	Cytoplasm	other
O95782	AP2A1	1	1.37E-01	adaptor-related protein complex 2, alpha 1 subunit	Cytoplasm	transporter
Q13363	CTBP1	1	3.37E-03	C-terminal binding protein 1	Nucleus	enzyme
Q16774	GUK1	1	2.45E-01	guanylate kinase 1	Cytoplasm	kinase
P49407	ARRB1	1	7.27E-01	arrestin, beta 1	Cytoplasm	other
Q05193	DNM1	1	2.26E-01	dynamin 1	Cytoplasm	enzyme
Q13043	STK4	1	6.16E-01	serine/threonine kinase 4	Cytoplasm	kinase
P12004	PCNA	1	5.93E-01	proliferating cell nuclear antigen	Nucleus	enzyme



P14415	ATP1B2	1	3.41E-01	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 2 polypeptide	Plasma Membrane	transporter
P37840	SNCA	1	6.03E-02	synuclein, alpha (non A4 component of amyloid precursor)	Cytoplasm	other
P06493	CDK1	1	3.10E-01	cyclin-dependent kinase 1	Nucleus	kinase
P49321	NASP	1	6.73E-01	nuclear autoantigenic sperm protein (histone-binding)	Nucleus	other
O43396	TXNL1	-1	6.95E-02	thioredoxin-like 1	Cytoplasm	enzyme
O15117	FYB	-1	1.63E-01	FYN binding protein	Nucleus	other
P52701	MSH6	-1	4.55E-01	mutS homolog 6 (E. coli)	Nucleus	enzyme
P04141	CSF2	-1	7.76E-01	colony stimulating factor 2 (granulocyte-macrophage)	Extracellular Space	cytokine
P05771	PRKCB	-1	7.11E-02	protein kinase C, beta	Cytoplasm	kinase
Q9UBQ3	PMF1	-1	1.77E-01	polyamine-modulated factor 1	Nucleus	transcription regulator
Q96M96	FGD4	-1	1.69E-01	FYVE, RhoGEF and PH domain containing 4	Cytoplasm	other
P17252	PRKCA	-1	1.55E-01	protein kinase C, alpha	Cytoplasm	kinase
P56945	BCAR1	-1	4.32E-01	breast cancer anti-estrogen resistance 1	Plasma Membrane	other
Q9UMT8	MDM2	-1	2.46E-02	Mdm2 p53 binding protein homolog (mouse)	Nucleus	transcription regulator
Q92777	SYN2	-1	6.56E-02	synapsin II	Plasma Membrane	other
P33991	MCM4	-1	3.45E-01	minichromosome maintenance complex component 4	Nucleus	enzyme
P17643	TYRP1	-1	1.83E-01	tyrosinase-related protein 1	Cytoplasm	enzyme
Q15369	TCEB1	-1	2.96E-01	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)	Nucleus	transcription regulator
P10747	CD28	-1	4.36E-01	CD28 molecule	Plasma Membrane	other

P15172	MYOD1	-1	5.69E-01	myogenic differentiation 1	Nucleus	transcription regulator
P16870	CPE	-1	3.00E-01	carboxypeptidase E	Plasma Membrane	peptidase
P33241	LSP1	-1	1.01E-01	lymphocyte-specific protein 1	Cytoplasm	other
P24723	PRKCH	-1	3.65E-01	protein kinase C, eta	Cytoplasm	kinase
O60484	SIPA1	-1	1.68E-01	signal-induced proliferation-associated 1	Cytoplasm	other
Q04637	EIF4G1	-1	3.61E-01	eukaryotic translation initiation factor 4 gamma, 1	Cytoplasm	translation regulator
Q09472	EP300	-1	2.58E-01	E1A binding protein p300	Nucleus	transcription regulator
O76074	PDE5A	-1	4.36E-01	phosphodiesterase 5A, cGMP-specific	Cytoplasm	enzyme
P35222	CTNNB1	-1	2.49E-01	catenin (cadherin-associated protein), beta 1, 88kDa	Nucleus	transcription regulator
P05106	ITGB3	-1	2.89E-02	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	Plasma Membrane	transmembrane receptor
Q05682	CALD1	-1	7.17E-02	caldesmon 1	Cytoplasm	other
Q9UEU0	VTI1B	-1	2.72E-01	vesicle transport through interaction with t-SNAREs homolog 1B (yeast)	Plasma Membrane	transporter
P22676	CALB2	-1	6.66E-01	calbindin 2	Cytoplasm	other
Q15149	PLEC	-1	5.82E-01	plectin	Cytoplasm	other
Q04206	RELA	-1	6.65E-01	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	Nucleus	transcription regulator
Q9UBV9	TP63	-1	5.97E-02	tumor protein p63	Nucleus	transcription regulator
Q14449	GRB14	-1	6.10E-01	growth factor receptor-bound protein 14	Plasma Membrane	other
P70281	SYCP3	-1	7.35E-01	synaptonemal complex protein 3	Nucleus	other
P05089	ARG1	-1	5.82E-01	arginase, liver	Cytoplasm	enzyme
Q09013	DMPK	-1	6.63E-01	dystrophia myotonica-protein kinase	Cytoplasm	kinase
P01584	IL1B	-1	9.29E-01	interleukin 1, beta	Extracellular Space	cytokine

Q15554	TERF2	-1	4.14E-01	telomeric repeat binding factor 2	Nucleus	other
P13667	PDIA4	-1	3.20E-01	protein disulfide isomerase family A, member 4	Cytoplasm	enzyme
P35225	IL13	-1	7.11E-01	interleukin 13	Extracellular Space	cytokine
Q13094	LCP2	-1	8.93E-01	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	Cytoplasm	other
P49848	TAF6	-1	6.60E-01	TAF6 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 80kDa	Nucleus	transcription regulator
O60462	NRP2	-1	8.12E-01	neuropilin 2	Plasma Membrane	kinase
O95644	NFATC1	-1	8.70E-01	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	Nucleus	transcription regulator
P31321	PRKAR1B	-1	9.81E-01	protein kinase, cAMP-dependent, regulatory, type I, beta	Cytoplasm	kinase
P06730	EIF4E	-1	9.43E-01	eukaryotic translation initiation factor 4E	Cytoplasm	translation regulator
O60231	DHX16	-1	9.85E-01	DEAH (Asp-Glu-Ala-His) box polypeptide 16	Nucleus	enzyme
Q01543	FLI1	-1	9.97E-01	Friend leukemia virus integration 1	Nucleus	transcription regulator
P43487	RANBP1	-1	9.97E-01	RAN binding protein 1	Nucleus	other
Q12904	AIMP1	-1.1	4.50E-04	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	Extracellular Space	cytokine
P25445	FAS	-1.1	1.99E-02	Fas (TNF receptor superfamily, member 6)	Plasma Membrane	transmembrane receptor
Q12917	KCNMA1	-1.1	8.23E-03	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	Plasma Membrane	ion channel

Q9NYH3	CCNDBP 1	-1.1	3.45E-03	cyclin D-type binding- protein 1	Nucleus	other
Q00403	GTF2B	-1.1	1.13E-01	general transcription factor IIB	Nucleus	transcription regulator
P07711	CTSL1	-1.1	1.91E-02	cathepsin L1	Cytoplasm	peptidase
O95196	CSPG5	-1.1	4.82E-02	chondroitin sulfate proteoglycan 5 (neuroglycan C)	Extracellular Space	growth factor
Q07157	TJP1	-1.1	1.40E-02	tight junction protein 1 (zona occludens 1)	Plasma Membrane	other
Q07820	MCL1	-1.1	2.78E-03	myeloid cell leukemia sequence 1 (BCL2- related)	Cytoplasm	transporter
P27361	MAPK3	-1.1	2.62E-02	mitogen-activated protein kinase 3	Cytoplasm	kinase
P40855	PEX19	-1.1	2.94E-03	peroxisomal biogenesis factor 19	Cytoplasm	other
P23193	TCEA1	-1.1	3.16E-02	transcription elongation factor A (SII), 1	Nucleus	transcription regulator
P09601	HMOX1	-1.1	4.90E-02	heme oxygenase (decycling) 1	Cytoplasm	enzyme
P22736	NR4A1	-1.1	2.23E-02	nuclear receptor subfamily 4, group A, member 1	Nucleus	ligand-dependent nuclear receptor
P56545	CTBP2	-1.1	2.41E-02	C-terminal binding protein 2	Nucleus	transcription regulator
Q15691	MAPRE1	-1.1	7.40E-03	microtubule-associated protein, RP/EB family, member 1	Cytoplasm	other
P07333	CSF1R	-1.1	7.93E-02	colony stimulating factor 1 receptor	Plasma Membrane	kinase
Q9BQH3	CAMKK1	-1.1	8.92E-02	calcium/calmodulin- dependent protein kinase kinase 1, alpha	Cytoplasm	kinase
Q01085	TIAL1	-1.1	5.14E-03	TIA1 cytotoxic granule- associated RNA binding protein-like 1	Nucleus	transcription regulator
O75363	BCAS1	-1.1	1.58E-02	breast carcinoma amplified sequence 1	Plasma Membrane	other
P21333	FLNA	-1.1	1.92E-02	filamin A, alpha	Cytoplasm	other
P55211	CASP9	-1.1	2.31E-02	caspase 9, apoptosis- related cysteine peptidase	Cytoplasm	peptidase
Q9Y2T2	AP3M1	-1.1	1.06E-02	adaptor-related protein complex 3, mu 1 subunit	Cytoplasm	transporter

Q13469	NFATC2	-1.1	6.00E-03	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	Nucleus	transcription regulator
P49841	GSK3B	-1.1	9.36E-03	glycogen synthase kinase 3 beta	Nucleus	kinase
Q14289	PTK2B	-1.1	4.24E-03	PTK2B protein tyrosine kinase 2 beta	Cytoplasm	kinase
P35637	FUS	-1.1	1.44E-02	fused in sarcoma	Nucleus	transcription regulator
P78362	SRPK2	-1.1	9.95E-03	SRSF protein kinase 2	Nucleus	kinase
Q61548	SNAP91	-1.1	2.20E-02	synaptosomal-associated protein, 91kDa homolog (mouse)	Plasma Membrane	other
Q14566	MCM6	-1.1	1.44E-03	minichromosome maintenance complex component 6	Nucleus	enzyme
O43752	STX6	-1.1	4.01E-02	syntaxin 6	Cytoplasm	transporter
P08247	SYP	-1.1	8.88E-02	synaptophysin	Cytoplasm	transporter
P17936	IGFBP3	-1.1	1.86E-03	insulin-like growth factor binding protein 3	Extracellular Space	other
Q13469	NFATC2	-1.1	1.18E-01	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	Nucleus	transcription regulator
P41743	PRKCI	-1.1	7.90E-04	protein kinase C, iota	Cytoplasm	kinase
P30307	CDC25C	-1.1	9.70E-03	cell division cycle 25 homolog C (S. pombe)	Nucleus	phosphatase
Q08495	EPB49	-1.1	1.04E-01	erythrocyte membrane protein band 4.9 (dematin)	Plasma Membrane	other
Q13596	SNX1	-1.1	9.08E-02	sorting nexin 1	Cytoplasm	transporter
Q13751	LAMB3	-1.1	8.61E-02	laminin, beta 3	Extracellular Space	transporter
Q92797	SYMPK	-1.1	3.84E-02	symplekin	Cytoplasm	other
P26006	ITGA3	-1.1	1.40E-02	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	Plasma Membrane	other
O08961	ZNF423	-1.1	1.27E-01	zinc finger protein 423	Nucleus	transcription regulator
Q07817	BCL2L1	-1.1	2.00E-01	BCL2-like 1	Cytoplasm	other

Q15233	NONO	-1.1	4.46E-01	non-POU domain containing, octamer-binding	Nucleus	other
O15066	KIF3B	-1.1	5.88E-02	kinesin family member 3B	Cytoplasm	transporter
Q99598	TSNAX	-1.1	1.17E-02	translin-associated factor X	Nucleus	transporter
P10275	AR	-1.1	3.13E-02	androgen receptor	Nucleus	ligand-dependent nuclear receptor
Q12933	TRAF2	-1.1	2.74E-01	TNF receptor-associated factor 2	Cytoplasm	enzyme
P15531	NME1	-1.1	1.64E-01	non-metastatic cells 1, protein (NM23A) expressed in	Nucleus	kinase
Q14573	ITPR3	-1.1	1.07E-01	inositol 1,4,5-trisphosphate receptor, type 3	Cytoplasm	ion channel
O75112	LDB3	-1.1	3.26E-01	LIM domain binding 3	Cytoplasm	transporter
P51531	SMARCA2	-1.1	5.78E-03	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	Nucleus	transcription regulator
P49418	AMPH	-1.2	1.13E-02	amphiphysin	Plasma Membrane	other
O75382	TRIM3	-1.2	2.87E-03	tripartite motif containing 3	Cytoplasm	other
Q02388	COL7A1	-1.2	1.52E-03	collagen, type VII, alpha 1	Extracellular Space	other
P02753	RBP4	-1.2	1.44E-02	retinol binding protein 4, plasma	Extracellular Space	transporter
P20936	RASA1	-1.2	3.18E-02	RAS p21 protein activator (GTPase activating protein) 1	Cytoplasm	transporter
Q9Y2D5	AKAP2/PALM2-AKAP2	-1.2	3.51E-02	A kinase (PRKA) anchor protein 2	Cytoplasm	other
P15104	GLUL	-1.2	1.35E-03	glutamate-ammonia ligase	Cytoplasm	enzyme
O43842	NCF1	-1.2	4.21E-02	neutrophil cytosolic factor 1	Cytoplasm	enzyme
P49918	CDKN1C	-1.2	8.23E-03	cyclin-dependent kinase inhibitor 1C (p57, Kip2)	Nucleus	other

P05113	IL5	-1.2	7.64E-03	interleukin 5 (colony-stimulating factor, eosinophil)	Extracellular Space	cytokine
Q9UK56	RASGRF2	-1.2	1.99E-03	Ras protein-specific guanine nucleotide-releasing factor 2	Cytoplasm	other
P17813	ENG	-1.2	1.69E-01	endoglin	Plasma Membrane	transmembrane receptor
Q96A65	EXOC4	-1.2	2.90E-03	exocyst complex component 4	Cytoplasm	transporter
P48681	NES	-1.2	6.05E-03	nestin	Cytoplasm	other
O76043	PTPRZ1	-1.2	8.03E-02	protein tyrosine phosphatase, receptor-type, Z polypeptide 1	Plasma Membrane	phosphatase
Q15283	RASA2	-1.2	2.35E-02	RAS p21 protein activator 2	Cytoplasm	other
Q07889	SOS1	-1.2	1.28E-03	son of sevenless homolog 1 (Drosophila)	Cytoplasm	other
P51955	NEK2	-1.2	8.10E-04	NIMA (never in mitosis gene a)-related kinase 2	Cytoplasm	kinase
P15173	MYOG	-1.2	1.86E-01	myogenin (myogenic factor 4)	Nucleus	transcription regulator
O15379	HDAC3	-1.2	7.56E-03	histone deacetylase 3	Nucleus	transcription regulator
P16455	MGMT	-1.2	4.94E-03	O-6-methylguanine-DNA methyltransferase	Nucleus	enzyme
O14879	IFIT3	-1.2	5.21E-03	interferon-induced protein with tetratricopeptide repeats 3	Cytoplasm	other
P26038	MSN	-1.2	3.90E-02	moesin	Plasma Membrane	other
O75759	RANBP3	-1.2	1.68E-01	RAN binding protein 3	Nucleus	other
P49674	CSNK1E	-1.2	1.09E-03	casein kinase 1, epsilon	Cytoplasm	kinase
O15145	ARPC3	-1.2	8.07E-03	actin related protein 2/3 complex, subunit 3, 21kDa	Cytoplasm	other
Q92878	RAD50	-1.2	6.80E-04	RAD50 homolog (S. cerevisiae)	Nucleus	enzyme
P51116	FXR2	-1.2	1.22E-02	fragile X mental retardation, autosomal homolog 2	Cytoplasm	other

P05231	IL6	-1.2	3.03E-02	interleukin 6 (interferon, beta 2)	Extracellular Space	cytokine
Q9NRF1	SH2B1	-1.2	1.38E-02	SH2B adaptor protein 1	Cytoplasm	other
P49662	CASP4	-1.2	2.12E-02	caspase 4, apoptosis-related cysteine peptidase	Cytoplasm	peptidase
O43561	LAT	-1.2	1.51E-03	linker for activation of T cells	Plasma Membrane	other
P31323	PRKAR2B	-1.2	2.59E-02	protein kinase, cAMP-dependent, regulatory, type II, beta	Cytoplasm	kinase
P54105	CLNS1A	-1.2	6.07E-02	chloride channel, nucleotide-sensitive, 1A	Plasma Membrane	ion channel
P51813	BMX	-1.2	1.50E-02	BMX non-receptor tyrosine kinase	Cytoplasm	kinase
P04049	RAF1	-1.2	8.43E-03	v-raf-1 murine leukemia viral oncogene homolog 1	Cytoplasm	kinase
P07237	P4HB	-1.2	6.04E-03	prolyl 4-hydroxylase, beta polypeptide	Cytoplasm	enzyme
P22223	CDH3	-1.2	1.20E-02	cadherin 3, type 1, P-cadherin (placental)	Plasma Membrane	other
P30260	CDC27	-1.2	6.60E-03	cell division cycle 27 homolog (S. cerevisiae)	Nucleus	other
Q03135	CAV1	-1.3	1.90E-03	caveolin 1, caveolae protein, 22kDa	Plasma Membrane	other
P24863	CCNC	-1.3	9.40E-03	cyclin C	Nucleus	other
<b>O43240</b>	<b>KLK10</b>	<b>-1.3</b>	<b>1.00E-05</b>	<b>kallikrein-related peptidase 10</b>	<b>Extracellular Space</b>	<b>peptidase</b>
P50995	ANXA11	-1.3	6.40E-04	annexin A11	Nucleus	other
O00273	DFFA	-1.3	1.49E-03	DNA fragmentation factor, 45kDa, alpha polypeptide	Nucleus	enzyme
P54709	ATP1B3	-1.3	2.39E-02	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide	Plasma Membrane	transporter
Q13586	STIM1	-1.3	1.13E-03	stromal interaction molecule 1	Plasma Membrane	other
O95368	PSIP1	-1.3	8.08E-03	PC4 and SFRS1 interacting protein 1	Nucleus	other
P52943	CRIP2	-1.3	5.64E-03	cysteine-rich protein 2	Plasma Membrane	other



Q92890	UFD1L	-1.3	6.10E-04	ubiquitin fusion degradation 1 like (yeast)	Cytoplasm	peptidase
P52824	DGKQ	-1.3	4.30E-02	diacylglycerol kinase, theta 110kDa	Cytoplasm	kinase
Q9UJY8	CHAF1A	-1.3	1.96E-02	chromatin assembly factor 1, subunit A (p150)	Nucleus	other
Q9Y3F4	STRAP	-1.3	5.17E-03	serine/threonine kinase receptor associated protein	Plasma Membrane	other
P58546	MTPN	-1.3	1.89E-03	myotrophin	Nucleus	transcription regulator
Q13501	SQSTM1	-1.3	3.01E-03	sequestosome 1	Cytoplasm	transcription regulator
Q9UKE5	TNIK	-1.3	1.51E-03	TRAF2 and NCK interacting kinase	Cytoplasm	kinase
P42679	MATK	-1.3	9.40E-04	megakaryocyte-associated tyrosine kinase	Cytoplasm	kinase
Q99996	AKAP9	-1.3	2.61E-02	A kinase (PRKA) anchor protein (yotiao) 9	Cytoplasm	other
Q96NG9	STXBP5	-1.3	5.01E-03	syntaxin binding protein 5 (tomosyn)	Plasma Membrane	other
Q14974	KPNB1	-1.3	4.80E-04	karyopherin (importin) beta 1	Nucleus	transporter
O60610	DIAPH1	-1.3	4.50E-04	diaphanous homolog 1 (Drosophila)	Cytoplasm	other
Q01826	SATB1	-1.3	4.80E-04	SATB homeobox 1	Nucleus	transcription regulator
P19634	SLC9A1	-1.3	2.78E-02	solute carrier family 9 (sodium/hydrogen exchanger), member 1	Plasma Membrane	ion channel
Q14848	TRAF4	-1.3	1.34E-02	TNF receptor-associated factor 4	Cytoplasm	other
P35659	DEK	-1.3	8.20E-04	DEK oncogene	Nucleus	transcription regulator
Q01094	E2F1	-1.3	6.36E-03	E2F transcription factor 1	Nucleus	transcription regulator
P31689	DNAJA1	-1.3	8.04E-03	DnaJ (Hsp40) homolog, subfamily A, member 1	Nucleus	other
Q13476	KSR1	-1.3	1.85E-03	kinase suppressor of ras 1	Cytoplasm	kinase
Q9NR09	BIRC6	-1.3	3.62E-03	baculoviral IAP repeat containing 6	Cytoplasm	enzyme

P35354	PTGS2	-1.3	7.60E-04	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	Cytoplasm	enzyme
P14923	JUP	-1.3	1.38E-03	junction plakoglobin	Plasma Membrane	other
Q92844	TANK	-1.3	3.58E-03	TRAF family member-associated NFKB activator	Cytoplasm	other
P13010	XRCC5	-1.3	2.97E-02	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)	Nucleus	enzyme
O00165	HAX1	-1.3	3.74E-03	HCLS1 associated protein X-1	Nucleus	other
Q13691	ABL1	-1.4	8.00E-04	c-abl oncogene 1, non-receptor tyrosine kinase	Nucleus	kinase
Q9HBY1	AFAP1	-1.4	8.60E-04	actin filament associated protein 1	Cytoplasm	other
Q14790	CASP8	-1.4	1.29E-02	caspase 8, apoptosis-related cysteine peptidase	Nucleus	peptidase
P17947	SPI1	-1.4	2.60E-04	spleen focus forming virus (SFFV) proviral integration oncogene spi1	Nucleus	transcription regulator
P15311	EZR	-1.4	1.28E-03	ezrin	Plasma Membrane	other
<b>Q92961</b>	<b>MAP2K5</b>	<b>-1.4</b>	<b>5.00E-05</b>	<b>mitogen-activated protein kinase kinase 5</b>	<b>Cytoplasm</b>	<b>kinase</b>
P52630	STAT2	-1.4	1.82E-02	signal transducer and activator of transcription 2, 113kDa	Nucleus	transcription regulator
<b>P20963</b>	<b>CD247</b>	<b>-1.4</b>	<b>1.30E-04</b>	<b>CD247 molecule</b>	<b>Plasma Membrane</b>	<b>transmembrane receptor</b>
P08047	SP1	-1.4	6.80E-04	Sp1 transcription factor	Nucleus	transcription regulator
P23443	RPS6KB1	-1.4	1.00E-03	ribosomal protein S6 kinase, 70kDa, polypeptide 1	Cytoplasm	kinase
P13500	CCL2	-1.4	3.10E-04	chemokine (C-C motif) ligand 2	Extracellular Space	cytokine
Q01484	ANK2	-1.4	3.35E-03	ankyrin 2, neuronal	Plasma Membrane	other

Q92558	WASF1	-1.4	<b>1.70E-04</b>	WAS protein family, member 1	Nucleus	other
P33992	MCM5	-1.4	<b>7.00E-05</b>	minichromosome maintenance complex component 5	Nucleus	enzyme
Q9Y3R0	GRIP1	-1.5	4.20E-04	glutamate receptor interacting protein 1	Plasma Membrane	other
P51956	NEK3	-1.5	2.67E-02	NIMA (never in mitosis gene a)-related kinase 3	Nucleus	kinase
P08133	ANXA6	-1.5	7.78E-03	annexin A6	Plasma Membrane	other
Q05086	UBE3A	-1.5	4.30E-04	ubiquitin protein ligase E3A	Nucleus	enzyme
Q9UQF2	MAPK8IP1	-1.6	2.20E-04	mitogen-activated protein kinase 8 interacting protein 1	Cytoplasm	other
O75899	GABBR2	-1.6	1.46E-03	gamma-aminobutyric acid (GABA) B receptor, 2	Plasma Membrane	G-protein coupled receptor
Q9Y478	PRKAB1	-1.6	1.13E-03	protein kinase, AMP-activated, beta 1 non-catalytic subunit	Nucleus	kinase

<sup>1</sup>To identify proteins interacting with TNFAIP8, PC-3 cells were treated with TNFAIP8 siRNA (Si2 SiRNA/SiRNA) or a scrambled siRNA (ScrSiRNA/MM). TNFAIP8 was immunoprecipitated using anti-TNFAIP8 antibody, and the immune-complexes were analyzed for TNFAIP8 binding proteins using antibody microarrays as explained in Materials and Methods. Fold change represents the ratio of largest of MM. Si, divided by smallest. The minus sign in front of the fold depicts expression level in MM relative to MM median is less than level in SiRNA relative to SiRNA median. <sup>2</sup>P-value is the significance of the difference between the two spots for MM and the two spots for SiRNA. P-values of less than 2e-4 are bolded as they were found to be statistically significant even under the very stringent Bonferroni criterion to adjust for multiple testing.