

Gene expression and biofunctions related to a brain metastasis from a PTC

Supplement Table 1. Probe sets differentially expressed in the brain metastatic PTC including its TR vs. non-brain metastatic PTCs and vs. primary brain tumors

Transcript ID	Gene symbol	Gene name/assignment	Chromosomal location	Brain metastatic PTC + TR vs. non-brain metastatic PTCs			Brain metastatic PTC + TR vs. primary brain tumors		
				p-value	FDR p-value	Fold change	p-value	FDR p-value	Fold change
8129134	ROS1	ROS proto-oncogene 1, receptor tyrosine kinase	6q22	1.93E-14	5.61E-10	13.37	1.17E-14	3.40E-10	14.70
7923534	MYBPH	myosin binding protein H	1q32.1	1.15E-11	1.54E-07	12.96	1.30E-11	1.23E-07	12.67
8180303	--	--	11p15.1	2.11E-11	2.04E-07	75.90	2.65E-11	1.72E-07	70.76
7927502	SLC18A3	solute carrier family 18 member A3	10q11.23	1.67E-10	1.05E-06	11.46	1.96E-10	8.73E-07	11.10
7997188	HP	haptoglobin	16q22.2	2.58E-10	1.48E-06	87.76	6.72E-10	1.75E-06	64.41
7946977	SAA2-SAA4	SAA2-SAA4 readthrough	11p15.1	3.70E-10	1.71E-06	5.68	2.86E-10	1.05E-06	5.87
8091385	CP	ceruloplasmin (ferroxidase)	3q24q25.1	4.65E-10	1.93E-06	37.57	2.89E-10	1.05E-06	42.79
8048864	CCL20	chemokine (C-C motif) ligand 20	2q36.3	2.53E-09	8.58E-06	121.78	1.48E-09	3.04E-06	148.82
8016128	GFAP	glial fibrillary acidic protein	17q21	2.95E-09	8.80E-06	3.08	1.37E-08	1.46E-05	2.75
7904953	RNU1-120P	RNA, U1 small nuclear 120, pseudogene	1q21.2	7.32E-09	1.87E-05	15.20	3.68E-08	3.38E-05	11.01
7931108	DMBT1	deleted in malignant brain tumors 1	10q26.13	7.61E-09	1.94E-05	3.45	1.63E-09	3.17E-06	4.04
8051322	XDH	xanthine dehydrogenase	2p23.1	1.06E-08	2.37E-05	8.67	4.80E-09	7.11E-06	9.93
8164464	ZER1	zyg-11 related, cell cycle regulator	9q34.11	2.09E-08	3.69E-05	-2.88	1.21E-07	7.44E-05	-2.52
8062927	PI3	peptidase inhibitor 3, skin-derived	20q13.12	2.00E-08	3.70E-05	4.12	1.62E-07	9.20E-05	3.32
8095697	CXCL1	C-X-C motif chemokine ligand 1	4q13.3	1.90E-08	3.70E-05	11.61	5.08E-08	4.11E-05	9.68
8038556	NAPSA	napsin A aspartic peptidase	19q13.33	2.01E-08	3.72E-05	11.16	4.79E-08	3.81E-05	9.53
7946983	SAA2	serum amyloid A2	11p15.1	3.18E-08	4.87E-05	6.70	1.55E-08	1.70E-05	7.49
8103466	FSTL5	folliculin-like 5	4q32.3	6.26E-08	9.45E-05	3.91	2.63E-08	2.36E-05	4.31
7971950	DACH1	dachshund family transcription factor 1	13q22	9.45E-08	1.25E-04	3.82	8.17E-08	5.55E-05	3.87
8109039	SPINK14	serine peptidase inhibitor, Kazal type 14 (putative)	5q32	1.16E-07	1.53E-04	5.40	6.30E-08	4.71E-05	5.88
7906764	HSPA6	heat shock protein family A (Hsp70) member 6	1q23	1.39E-07	1.73E-04	20.77	1.65E-06	5.31E-04	11.79
7938758	SAA1	serum amyloid A1	11p15.1	1.80E-07	1.98E-04	7.69	1.42E-07	7.28E-05	7.95
8044976	CNTNAP5	contactin associated protein-like 5	2q14.3	2.19E-07	2.11E-04	4.93	2.24E-07	1.10E-04	4.91
7979357	OTX2	orthodenticle homeobox 2	14q22.3	2.07E-07	2.16E-04	4.66	1.28E-07	6.95E-05	4.92
7927482	CHAT	choline O-acetyltransferase	10q11.2	1.89E-07	2.18E-04	4.96	2.46E-07	1.25E-04	4.79
8135915	HILPDA	hypoxia inducible lipid droplet-associated	7q32.1	2.26E-07	2.44E-04	13.83	2.57E-07	1.28E-04	13.47
8001918	RRAD	Ras-related associated with diabetes	16q22	2.61E-07	2.69E-04	15.91	2.00E-06	6.13E-04	10.27
8056457	SCN1A	sodium channel, voltage-gated, type I, alpha subunit	2q24.3	3.02E-07	2.94E-04	3.72	2.14E-07	1.07E-04	3.87
8006459	CCL13	chemokine (C-C motif) ligand 13	17q11.2	4.10E-07	3.71E-04	8.08	3.67E-08	3.46E-05	12.69
8061916	BPIFB9P	BPI fold containing family B, member 9, pseudogene	20q11.21	6.03E-07	4.85E-04	5.56	3.31E-07	1.47E-04	6.06
8130556	SOD2	superoxide dismutase 2, mitochondrial	6q25.3	5.99E-07	5.05E-04	7.48	1.79E-06	5.72E-04	6.25
8010354	GAA	glucosidase, alpha; acid	17q25.3	8.37E-07	6.33E-04	-3.90	1.07E-06	3.78E-04	-3.81
8015387	KRT17	keratin 17	17q21.2	8.07E-07	6.39E-04	4.64	2.77E-07	1.34E-04	5.34
8075316	OSM	oncostatin M	22q12.2	8.33E-07	6.64E-04	3.43	6.68E-06	1.48E-03	2.80
8180340	RAB7B	RAB7B, member RAS oncogene family	1q32.1	1.17E-06	8.17E-04	3.13	3.62E-06	8.96E-04	2.83

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8109649	MIR146A	microRNA 146a	5q34	1.39E-06	9.36E-04	3.01	8.34E-07	2.98E-04	3.19
8030860	FPR2	formyl peptide receptor 2	19q13.41	1.45E-06	9.78E-04	6.86	5.19E-06	1.24E-03	5.61
8038487	IL411	interleukin 4 induced 1	19q13.33	1.44E-06	9.85E-04	2.87	5.77E-06	1.28E-03	2.54
8095680	CXCL8	C-X-C motif chemokine ligand 8	4q13.3	1.58E-06	1.04E-03	39.82	8.73E-07	3.27E-04	48.30
7912145	TNFRSF9	tumor necrosis factor receptor superfamily, member 9	1p36	1.69E-06	1.08E-03	3.77	3.15E-06	8.20E-04	3.52
8070584	TMPRSS3	transmembrane protease, serine 3	21q22.3	2.13E-06	1.33E-03	5.95	3.19E-07	1.46E-04	8.04
8092970	APOD	apolipoprotein D	3q29	2.36E-06	1.44E-03	24.97	1.56E-04	1.30E-02	8.67
8043981	IL1R2	interleukin 1 receptor, type II	2q12	2.97E-06	1.79E-03	7.74	1.18E-05	2.08E-03	6.12
7905571	S100A9	S100 calcium binding protein A9	1q21	3.10E-06	1.82E-03	8.13	3.46E-05	4.64E-03	5.37
8036103	SBSN	suprabasin	19q13.13	3.13E-06	1.85E-03	3.29	3.11E-06	8.18E-04	3.29
8131803	IL6	interleukin 6	7p21	4.80E-06	2.40E-03	5.41	1.88E-05	2.91E-03	4.49
8148184	FAM83A	family with sequence similarity 83, member A	8q24.13	5.85E-06	3.00E-03	2.87	1.68E-06	5.17E-04	3.23
7967318	HCAR2	hydroxycarboxylic acid receptor 2	12q24.31	6.71E-06	3.01E-03	2.53	7.35E-06	1.32E-03	2.53
7967322	HCAR3	hydroxycarboxylic acid receptor 3	12q24.31	7.42E-06	3.30E-03	4.23	4.39E-06	9.46E-04	4.53
7930593	PLEKHS1	pleckstrin homology domain containing, family S member 1	10q25.3	9.04E-06	3.79E-03	3.33	1.20E-05	1.95E-03	3.23
7997801	IL17C	interleukin 17C	16q24	9.86E-06	4.35E-03	2.81	2.87E-05	3.95E-03	2.56
8100994	CXCL2	C-X-C motif chemokine ligand 2	4q21	8.94E-06	4.38E-03	10.63	1.01E-06	3.65E-04	17.55
8112198	ACTBL2	actin, beta-like 2	5q11.2	9.48E-06	4.54E-03	9.47	1.17E-06	4.06E-04	14.89
7906775	HSPA6	heat shock protein family A (Hsp70) member 6	1q23	9.76E-06	4.61E-03	8.61	4.66E-04	2.62E-02	4.32
8162373	OGN	osteoglycin	9q22	1.28E-05	5.61E-03	26.62	5.69E-04	3.03E-02	-9.15
7965587	RNU6-247P	RNA, U6 small nuclear 247, pseudogene	12q22q23.1	1.30E-05	5.74E-03	6.64	9.69E-06	1.85E-03	7.00
8138310	DGKB	diacylglycerol kinase, beta 90 kDa	7p21.2	1.72E-05	6.42E-03	4.50	3.44E-05	4.49E-03	4.09
8038861	SIGLEC6	sialic acid binding Ig-like lectin 6	19q13.3	1.71E-05	7.03E-03	30.33	7.96E-06	1.63E-03	38.97
8054722	IL1B	interleukin 1, beta	2q14	1.69E-05	7.10E-03	21.10	8.06E-04	3.69E-02	7.63
8096580	MITP	microsomal triglyceride transfer protein	4q24	1.89E-05	7.44E-03	2.02	1.32E-05	2.32E-03	2.06
7900146	ZC3H12A	zinc finger CCCH-type containing 12A	1p34.3	2.52E-05	9.60E-03	3.10	6.55E-06	1.42E-03	3.58
8061912	BPIFB9P	BPI fold containing family B, member 9, pseudogene	20q11.21	3.04E-05	9.69E-03	3.43	4.25E-06	9.48E-04	4.27
8173174	USP51	ubiquitin specific peptidase 51	Xp11.21	2.59E-05	9.72E-03	-3.09	4.85E-05	6.04E-03	-2.89
7904244	MAB21L3	mab-21-like 3 (C. elegans)	1p13.1	3.55E-05	1.15E-02	3.26	1.04E-05	1.87E-03	3.77
7951217	MMP7	matrix metalloproteinase 7	11q22.2	3.81E-05	1.20E-02	18.25	2.91E-05	4.20E-03	19.70
8167887	MAGEH1	melanoma antigen family H, 1	Xp11.21	3.80E-05	1.20E-02	-4.11	4.52E-06	1.12E-03	-5.60
8104234	TRIP13	thyroid hormone receptor interactor 13	5p15.33	4.03E-05	1.31E-02	2.44	1.33E-04	1.17E-02	2.20
8046815	ZNF804A	zinc finger protein 804A	2q32.1	5.48E-05	1.35E-02	4.11	5.38E-04	2.53E-02	3.09
8147065	RALYL	RALY RNA binding protein-like	8q21.2	4.52E-05	1.39E-02	2.32	2.34E-05	3.49E-03	2.45
8156873	INVS	inversin	9q31	4.68E-05	1.42E-02	-2.40	6.27E-06	1.44E-03	-2.87
8033445	CD209	CD209 molecule	19p13	5.27E-05	1.45E-02	6.53	5.49E-05	6.13E-03	6.47
7998063	TUBB3	tubulin, beta 3 class III	16q24.3	4.80E-05	1.49E-02	2.30	1.45E-04	1.25E-02	2.11
8049075	B3GNT7	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	2q37.1	5.68E-05	1.50E-02	3.23	4.32E-06	1.05E-03	4.42
7955297	AQP5	aquaporin 5	12q13	5.08E-05	1.52E-02	10.24	1.26E-05	2.23E-03	14.28
7921076	GPATCH4	G patch domain containing 4	1q22	6.46E-05	1.78E-02	2.99	2.59E-05	3.75E-03	3.32
7981333	RN7SL472P	RNA, 7SL, cytoplasmic 472, pseudogene	4q32.31	6.65E-05	1.81E-02	21.88	1.62E-04	1.33E-02	16.68

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7908907	ADORA1	adenosine A1 receptor	1q32.1	7.42E-05	1.94E-02	2.93	1.70E-07	9.50E-05	6.35
7923875	C1orf186	chromosome 1 open reading frame 186	1q32.1	7.92E-05	2.02E-02	5.00	1.29E-05	2.23E-03	6.78
8086961	PFKFB4	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	3p21.31	9.40E-05	2.26E-02	2.93	7.29E-04	3.52E-02	2.35
8155794	C9orf85	chromosome 9 open reading frame 85	9q21.13	1.40E-04	2.36E-02	-3.64	4.94E-05	5.12E-03	-4.11
7992828	IL32	interleukin 32	16p13.3	1.16E-04	2.39E-02	4.31	7.26E-04	3.20E-02	3.32
8119403	APOBEC2	apolipoprotein B mRNA editing enzyme catalytic subunit 2	6p21.1	1.57E-04	2.54E-02	3.77	1.67E-05	2.41E-03	4.95
8156581	ERCC6L2	excision repair cross-complementation group 6-like 2	9q22.32	1.20E-04	2.62E-02	-2.33	2.84E-04	1.92E-02	-2.17
8110841	LPCAT1	lysophosphatidylcholine acyltransferase 1	5p15.33	1.40E-04	2.84E-02	3.19	7.45E-05	8.10E-03	3.45
8168749	SRPX2	sushi-repeat containing protein, X-linked 2	Xq22.1	1.46E-04	2.91E-02	4.47	5.03E-06	1.22E-03	7.93
7943413	BIRC3	baculoviral IAP repeat containing 3	11q22	1.64E-04	2.97E-02	16.36	4.68E-05	5.65E-03	23.77
7909371	CR1	complement component 3b/4b receptor 1 (Knops blood group)	1q32.2	1.67E-04	3.11E-02	3.34	7.19E-04	3.38E-02	2.78
8169504	SLC6A14	solute carrier family 6 (amino acid transporter), member 14	Xq23	1.75E-04	3.13E-02	15.62	1.30E-05	2.23E-03	33.84
7983478	C15orf48	chromosome 15 open reading frame 48	15q21.1	1.71E-04	3.23E-02	6.27	1.92E-05	3.01E-03	9.84
8016033	FAM171A2	family with sequence similarity 171, member A2	17q21.31	1.93E-04	3.40E-02	-3.63	1.18E-04	1.08E-02	-3.89
8006865	PPP1R1B	protein phosphatase 1, regulatory (inhibitor) subunit 1B	17q12	2.33E-04	3.87E-02	4.06	2.91E-04	1.94E-02	3.92
8126248	UNC5CL	unc-5 homolog C (C. elegans)-like	6p21.1	2.48E-04	3.96E-02	5.01	1.87E-05	2.97E-03	8.06
8104901	IL7R	interleukin 7 receptor	5p13	2.88E-04	4.38E-02	9.07	9.49E-04	4.08E-02	6.81
7923347	LAD1	ladinin 1	1q32.1	3.19E-04	4.65E-02	3.49	5.01E-08	4.24E-05	16.03
8158725	ABL1	ABL proto-oncogene 1, non-receptor tyrosine kinase	9q34.1	3.16E-04	4.66E-02	-2.71	1.28E-04	1.17E-02	-3.01
8083233	ZIC1	Zic family member 1	3q24	6.98E-06		17.37	3.07E-02		-2.69
8072678	HMOX1	heme oxygenase (decycling) 1	22q13.1	4.33E-05		4.92	2.11E-03		2.79
8099476	PROM1	prominin 1	4p15.32	1.17E-04		16.06	1.73E-03		7.62
7988350	DUOX2	dual oxidase 2	15q15.3	1.32E-04		-19.36	4.31E-02		3.55
7953603	C1S	complement component 1, s subcomponent	12p13	1.58E-04		13.15	1.70E-02		-3.98
8122701	-	-	6q25.1	1.65E-04		-5.66	2.95E-03		-3.43
8102342	ELOVL6	ELOVL fatty acid elongase 6	4q25	1.66E-04		7.20	1.15E-02		3.09
8054712	IL1A	interleukin 1, alpha	2q14	1.68E-04		8.26	1.67E-02		3.09
8156633	CCDC180	coiled-coil domain containing 180	9q22.33	1.76E-04		-2.72	1.10E-03		-2.25
8157446	ORM1	orosomucoid 1	9q32	1.98E-04		4.95	3.07E-05		6.43
7940441	PGA3	pepsinogen 3, group I (pepsinogen A)	11q12.2	2.67E-04		3.77	9.14E-04		3.19
8157700	RABGAP1	RAB GTPase activating protein 1	9q34.11	2.85E-04		-2.84	2.51E-03		-2.23
8111220	CDH18	cadherin 18, type 2	5p14.3	3.02E-04		2.17	2.58E-04		2.22
7940177	OR4D10	olfactory receptor, family 4, subfamily D, member 10	11q12	3.19E-04		7.26	8.51E-05		9.74
8034837	DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	19p13.2	3.20E-04		4.41	3.91E-03		2.96
8147469	CPQ	carboxypeptidase Q	8q22.2	3.28E-04		-3.12	2.58E-04		-3.23
8094743	RHOH	ras homolog family member H	4p13	3.42E-04		3.23	1.18E-02		2.06
8156601	ERCC6L2	excision repair cross-complementation group 6-like 2	9q22.32	3.53E-04		-2.58	1.96E-03		-2.15
8130580	SNORA29	small nucleolar RNA, H/ACA box 29	6q25.3	3.69E-04		3.17	3.84E-04		3.15
8140151	RFC2	replication factor C (activator 1) 2, 40 kDa	7q11.23	3.75E-04		2.12	1.08E-05		2.91
8147461	SDC2	syndecan 2	8q22.1	3.88E-04		-2.43	1.07E-04		-2.77
8132960	SNORA22	Small nucleolar RNA SNORA22	7p11.2	3.89E-04		2.69	1.62E-03		2.30

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8109677	GABRG2	gamma-aminobutyric acid (GABA) A receptor, gamma 2	5q34	4.11E-04	2.43	1.55E-04	2.67
8115584	CCNJL	cyclin J-like	5q33.3	4.53E-04	3.12	1.27E-05	5.06
8180246	--	--	--	4.73E-04	-5.54	5.84E-03	-3.53
7940431	PGA3	pepsinogen 3, group I (pepsinogen A)	11q12.2	5.30E-04	3.86	1.92E-03	3.20
8138566	IGF2BP3	insulin-like growth factor 2 mRNA binding protein 3	7p11	5.35E-04	3.34	9.50E-05	4.30
7909164	CTSE	cathepsin E	1q31	5.69E-04	92.12	2.17E-04	155.04
7952339	SNORD14C	small nucleolar RNA, C/D box 14C	11q24.1	5.93E-04	9.74	4.51E-02	3.11
8106168	--	Y_RNA ENSG00000200833	5q13.2	5.94E-04	2.51	5.69E-04	2.52
7944751	C11orf63	chromosome 11 open reading frame 63	11q24.1	6.01E-04	-3.32	6.34E-05	-4.61
7983910	AQP9	aquaporin 9	15q	6.02E-04	13.61	1.14E-03	11.19
7990818	BCL2A1	BCL2-related protein A1	15q24.3	6.13E-04	4.28	9.18E-04	4.00
7908639	C1orf106	chromosome 1 open reading frame 106	1q32.1	6.54E-04	2.49	4.25E-04	2.61
8032509	GNG7	guanine nucleotide binding protein (G protein), gamma 7	19p13.3	6.83E-04	-2.28	2.01E-07	-5.66
7940421	PGA3	pepsinogen 3, group I (pepsinogen A)	11q12.2	6.96E-04	3.67	2.50E-03	3.04
7905533	IVL	involucrin	1q21	7.00E-04	2.73	4.57E-04	2.88
8124534	HIST1H4L	histone cluster 1, H4I	6p22.1	7.22E-04	3.27	4.98E-03	2.50
7924508	SUSD4	sushi domain containing 4	1q41	7.33E-04	3.19	2.38E-05	5.16
8118310	HSPA1A	heat shock 70 kDa protein 1A	6p21.3	7.39E-04	6.05	9.50E-03	3.52
8025402	ANGPTL4	angiotensin-like 4	19p13.3	7.58E-04	11.86	6.51E-05	25.38
8179322	HSPA1A	heat shock 70 kDa protein 1A	6p21.3	7.71E-04	6.09	9.60E-03	3.55
8123864	TFAP2A	transcription factor AP-2 alpha	6p24.3	7.76E-04	3.36	5.67E-03	2.53
8157027	NIPSNAP3B	nipsnap homolog 3B (C. elegans)	9q31.1	8.39E-04	-3.03	2.86E-03	-2.57
7951928	DSCAML1	Down syndrome cell adhesion molecule like 1	11q23	8.51E-04	2.72	5.55E-04	2.83
7907861	XPR1	xenotropic and polytropic retrovirus receptor 1	1q25.1	8.52E-04	3.02	2.79E-06	7.13
7969640	CLDN10	claudin 10	13q32.1	9.46E-04	6.07	9.87E-05	10.21
8026272	IL27RA	interleukin 27 receptor, alpha	19p13.11	1.01E-03	3.65	5.75E-04	3.99
8162388	OMD	osteomodulin	9q22.31	1.03E-03	7.74	1.55E-05	-22.52
8104449	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)	5p15.2	1.04E-03	2.50	4.41E-03	2.13
7928602	SFTPA1	surfactant protein A1	10q22.3	1.05E-03	30.04	1.42E-04	71.83
7928632	SFTPA1	surfactant protein A1	10q22.3	1.05E-03	30.04	1.42E-04	71.83
8097116	RNU4-33P	RNA, U4 small nuclear 33, pseudogene	--	1.08E-03	2.44	6.65E-04	2.58
8109639	PTTG1	pituitary tumor-transforming 1	5q35.1	1.10E-03	3.70	3.55E-06	9.46
8156604	ERCC6L2	excision repair cross-complementation group 6-like 2	9q22.32	1.10E-03	-2.26	8.46E-04	-2.32
7915472	SLC2A1	solute carrier family 2 member 1	1p34.2	1.12E-03	4.81	6.13E-04	5.41
7975987	SNORA46	small nucleolar RNA, H/ACA box 46	14q24.3	1.12E-03	3.24	3.53E-03	2.75
7922756	NMNAT2	nicotinamide nucleotide adenyltransferase 2	1q25	1.13E-03	6.39	4.52E-02	-2.72
7909681	PROX1	prospero homeobox 1	1q41	1.14E-03	4.00	1.30E-05	9.30
8124848	IER3	immediate early response 3	6p21.3	1.15E-03	4.55	2.15E-03	4.06
8179704	IER3	immediate early response 3	6p21.3	1.15E-03	4.55	2.15E-03	4.06
8106141	FCHO2	FCH domain only 2	5q13.2	1.18E-03	2.42	5.41E-05	3.44
7934698	SFTPA2	surfactant protein A2	10q22.3	1.19E-03	28.20	1.84E-04	63.22

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7934708	SFTP2	surfactant protein A2	10q22.3	1.19E-03	28.20	1.84E-04	63.22
7920244	S100A8	S100 calcium binding protein A8	1q21	1.23E-03	15.82	1.97E-02	6.11
7993638	TMC5	transmembrane channel-like 5	16p12.3	1.27E-03	3.33	2.25E-04	4.09
7996022	CCL22	chemokine (C-C motif) ligand 22	16q13	1.31E-03	2.62	9.32E-04	2.73
7977046	TNFAIP2	tumor necrosis factor, alpha-induced protein 2	14q32	1.36E-03	7.55	2.45E-03	6.49
8046408	PDK1	pyruvate dehydrogenase kinase, isozyme 1	2q31.1	1.37E-03	3.42	1.46E-03	3.38
8029465	BCL3	B-cell CLL/lymphoma 3	19q13.32	1.37E-03	3.64	3.09E-04	4.55
8157038	SLC44A1	solute carrier family 44 (choline transporter), member 1	9q31.1	1.43E-03	-3.33	1.77E-02	-2.26
7952335	SNORD14E	small nucleolar RNA, C/D box 14E	11q24.1	1.48E-03	13.41	8.05E-03	7.63
7909441	G0S2	G0/G1 switch 2	1q32.2	1.52E-03	6.18	5.85E-04	7.74
8118314	HSPA1B	heat shock 70 kDa protein 1B	6p21.3	1.54E-03	6.11	9.28E-03	4.02
8178435	IER3	immediate early response 3	6p21.3	1.63E-03	4.61	2.12E-03	4.38
8090433	MGLL	monoglyceride lipase	3q21.3	1.63E-03	4.32	8.08E-03	3.19
8156743	FOXE1	forkhead box E1 (thyroid transcription factor 2)	9q22	1.64E-03	-3.74	3.10E-04	4.98
8178086	HSPA1B	heat shock 70 kDa protein 1B	6p21.3	1.66E-03	6.10	9.98E-03	4.00
8179324	HSPA1B	heat shock 70 kDa protein 1B	6p21.3	1.66E-03	6.10	9.98E-03	4.00
8114249	CXCL14	chemokine (C-X-C motif) ligand 14	5q31	1.67E-03	52.97	3.70E-04	117.45
8098637	CYP4V2	cytochrome P450, family 4, subfamily V, polypeptide 2	4q35.2	1.75E-03	-2.67	5.51E-03	-2.29
7988426	SLC30A4	solute carrier family 30 (zinc transporter), member 4	15q21.1	1.81E-03	-2.66	8.77E-04	-2.92
8075886	IL2RB	interleukin 2 receptor, beta	22q13.1	1.82E-03	3.91	3.74E-03	3.46
8140504	MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2	7q21.11	1.83E-03	-3.01	1.27E-04	-4.51
8065344	FOXA2	forkhead box A2	20p11	1.88E-03	2.55	7.04E-04	2.89
7937079	BNIP3	BCL2/adenovirus E1B 19 kDa interacting protein 3	-	1.91E-03	2.74	4.12E-06	6.68
7976698	EML1	echinoderm microtubule associated protein like 1	14q32	1.93E-03	-4.17	2.49E-03	-3.97
8103894	ENPP6	ectonucleotide pyrophosphatase/phosphodiesterase 6	4q35.1	1.95E-03	3.04	3.67E-09	-43.97
8126820	GPR110	G protein-coupled receptor 110	6p12.3	2.23E-03	6.42	1.30E-06	54.13
8080847	C3orf14	chromosome 3 open reading frame 14	3p14.2	2.29E-03	-3.02	2.50E-04	-4.11
8037374	PLAUR	plasminogen activator, urokinase receptor	19q13	2.32E-03	3.87	1.47E-02	2.77
7923850	SLC26A9	solute carrier family 26 (anion exchanger), member 9	1q32.1	2.35E-03	12.40	3.87E-04	23.32
8139433	MYO1G	myosin IG	7p13	2.49E-03	25.19	5.86E-04	48.18
8167027	RGN	regucalcin	Xp11.3	2.60E-03	-2.89	3.72E-04	3.77
8155930	GCNT1	glucosaminyl (N-acetyl) transferase 1, core 2	9q13	2.62E-03	-4.66	3.14E-02	2.73
7925589	SMYD3	SET and MYND domain containing 3	1q44	2.63E-03	3.81	6.28E-05	7.63
8130645	PARK2	parkin RBR E3 ubiquitin protein ligase	6q26	2.70E-03	-2.34	1.17E-04	-3.43
7918533	ADORA3	adenosine A3 receptor	1p13.2	2.72E-03	3.75	4.21E-02	-2.26
8104307	C5orf38	chromosome 5 open reading frame 38	5p15.33	2.91E-03	5.03	2.92E-03	5.03
8106923	NR2F1	nuclear receptor subfamily 2, group F, member 1	5q14	2.97E-03	2.88	1.69E-03	-3.13
8162059	SLC28A3	solute carrier family 28 (concentrative nucleoside transport	9q21.32q21.33	3.08E-03	3.68	3.12E-04	5.55
8163795	PSMD5	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5	9q33.2	3.12E-03	-3.66	1.65E-03	-4.11
7930921	BAG3	BCL2-associated athanogene 3	10q26.11	3.33E-03	2.39	8.90E-04	2.81
8087739	CISH	cytokine inducible SH2-containing protein	3p21.3	3.49E-03	2.50	1.62E-06	7.76

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7933084	NAMPT	nicotinamide phosphoribosyltransferase	7q22.3	3.59E-03	4.88	2.50E-02	3.12
8144488	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	3.62E-03	-2.72	2.41E-03	-2.88
8070467	TMPRSS2	transmembrane protease, serine 2	21q22.3	3.63E-03	10.95	1.60E-04	33.23
8065607	PLAGL2	pleiomorphic adenoma gene-like 2	20q11.21	3.65E-03	2.24	7.92E-04	2.67
8142120	NAMPT	nicotinamide phosphoribosyltransferase	7q22.3	3.74E-03	4.79	3.48E-02	2.87
8161418	-	-	-	3.81E-03	3.53	1.41E-04	6.54
8051133	FTH1P3	ferritin, heavy polypeptide 1 pseudogene 3	2p23.3	3.95E-03	2.46	5.43E-03	2.36
8062395	NNAT	neuronatin	20q11.23	3.97E-03	60.79	1.81E-02	24.33
8064939	TMX4	thioredoxin-related transmembrane protein 4	20p12	4.10E-03	-2.96	1.52E-02	-2.41
8009443	ARSG	arylsulfatase G	17q24.2	4.27E-03	-2.47	3.22E-03	-2.57
7912638	TMEM51-AS1	TMEM51 antisense RNA 1	1p36.21	4.33E-03	2.42	6.91E-03	2.28
8099834	TLR1	toll-like receptor 1	4p14	4.59E-03	2.74	3.67E-03	-2.80
7968212	WASF3	WAS protein family, member 3	13q12	4.62E-03	-3.40	1.10E-04	-6.85
8120552	FAM135A	family with sequence similarity 135, member A	6q13	4.70E-03	-2.54	7.31E-04	-3.30
8144410	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	4.72E-03	-3.50	5.77E-03	-3.37
7940175	OR4D6	olfactory receptor, family 4, subfamily D, member 6	11q12.1	4.76E-03	5.40	1.48E-03	7.22
7908924	PRELP	proline/arginine-rich end leucine-rich repeat protein	1q32.1	4.84E-03	4.24	4.23E-03	-4.33
7919028	TBX15	T-box 15	1p11.1	4.86E-03	3.25	2.91E-05	-8.42
7978544	EGLN3	egl-9 family hypoxia-inducible factor 3	14q13.1	4.92E-03	3.77	1.08E-02	3.25
8086185	PLCD1	phospholipase C, delta 1	3p22.2	4.92E-03	-2.73	1.39E-03	-3.31
7953735	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	5.11E-03	-3.16	7.00E-03	-2.99
8032834	LRG1	leucine-rich alpha-2-glycoprotein 1	19p13.3	5.11E-03	2.30	8.89E-04	2.78
7938777	LDHA	lactate dehydrogenase A	11p15.4	5.11E-03	3.14	3.87E-02	2.20
8043441	IGKV1D-27	immunoglobulin kappa variable 1D-27 (pseudogene)	2p11.2	5.14E-03	4.29	6.82E-03	4.05
7907171	BLZF1	basic leucine zipper nuclear factor 1	1q24	5.22E-03	2.13	2.30E-03	2.34
7903959	PIFO	primary cilia formation	1p13.2	5.36E-03	-2.72	1.99E-02	2.23
7922976	PTGS2	prostaglandin-endoperoxide synthase 2	1q31.1	5.41E-03	10.38	1.24E-03	17.62
8025601	ICAM1	intercellular adhesion molecule 1	19p13.2	5.48E-03	5.44	2.60E-04	12.12
8116983	CD83	CD83 molecule	6p23	5.52E-03	3.03	1.76E-03	3.66
8025382	CERS4	ceramide synthase 4	19p13.2	5.73E-03	-2.38	1.09E-02	2.18
8006433	CCL2	chemokine (C-C motif) ligand 2	17q12	5.86E-03	12.01	1.38E-02	8.64
7937852	SLC22A18	solute carrier family 22, member 18	11p15.5	5.87E-03	2.10	2.47E-03	2.32
8162610	CDC14B	cell division cycle 14B	9q22.3	5.94E-03	-3.16	7.52E-03	-3.03
7922243	METTL18	methyltransferase like 18	1q24.2	6.04E-03	3.21	6.56E-04	4.81
7931930	PRKCQ	protein kinase C, theta	10p15	6.07E-03	-2.21	5.40E-05	4.06
7931914	IL2RA	interleukin 2 receptor, alpha	10p15.1	6.08E-03	4.26	2.50E-02	3.09
7967544	SCARB1	scavenger receptor class B, member 1	12q24.31	6.24E-03	-2.50	8.25E-04	-3.35
7984588	THSD4	thrombospondin, type I, domain containing 4	15q23	6.28E-03	-2.39	9.22E-09	-25.45
8054580	BUB1	BUB1 mitotic checkpoint serine/threonine kinase	2q13	6.34E-03	4.47	5.12E-04	8.13
8006594	CCL18	C-C motif chemokine ligand 18	17q12	6.43E-03	14.96	1.92E-04	68.79
8144416	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	6.48E-03	-3.60	8.52E-03	-3.40

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8144418	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	6.48E-03	-3.60	8.52E-03	-3.40
8144490	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	6.48E-03	-3.60	8.52E-03	-3.40
8144492	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	6.48E-03	-3.60	8.52E-03	-3.40
8148501	PTP4A3	protein tyrosine phosphatase type IVA, member 3	8q24.3	6.59E-03	4.15	2.38E-04	8.82
7909214	RASSF5	Ras association domain family member 5	1q32.1	6.66E-03	3.05	3.26E-03	3.45
7946401	ST5	suppression of tumorigenicity 5	11p15	6.68E-03	2.76	9.50E-03	2.62
8098423	NEIL3	nei endonuclease VIII-like 3 (E. coli)	4q34.3	6.93E-03	2.83	3.99E-03	3.10
8042144	REL	v-rel avian reticuloendotheliosis viral oncogene homolog	2p13	6.96E-03	2.99	1.12E-03	4.12
8111772	DAB2	Dab, mitogen-responsive phosphoprotein, homolog 2 (Drosophila)	5p13.1	7.05E-03	3.89	3.54E-02	-2.73
8149218	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.11E-03	-3.59	9.38E-03	-3.39
8149220	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.11E-03	-3.59	9.38E-03	-3.39
8149222	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.11E-03	-3.59	9.38E-03	-3.39
8149224	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.11E-03	-3.59	9.38E-03	-3.39
8149226	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.11E-03	-3.59	9.38E-03	-3.39
8157300	BSPRY	B-box and SPRY domain containing	9q32	7.20E-03	-2.28	9.58E-04	2.98
8141076	PON2	paraoxonase 2	7q21.3	7.29E-03	2.62	1.30E-02	2.41
8099541	QDPR	quinoid dihydropteridine reductase	4p15.31	7.30E-03	-3.34	1.33E-02	-3.00
8149161	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.31E-03	-3.30	7.36E-03	-3.29
8149210	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.31E-03	-3.30	7.36E-03	-3.29
8149228	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.37E-03	-3.14	1.11E-02	-2.92
8088979	VGLL3	vestigial-like family member 3	3p12.1	7.51E-03	2.31	3.71E-03	2.55
8043697	ANKRD36B	ankyrin repeat domain 36B	2q11.2	7.52E-03	-3.05	2.11E-02	-2.56
8161964	FRMD3	FERM domain containing 3	9q21.32	7.57E-03	-3.99	3.35E-03	4.87
8167728	SSX2B	synovial sarcoma, X breakpoint 2B	Xp11.22	7.64E-03	2.75	5.52E-05	6.04
8149216	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.76E-03	-3.48	1.01E-02	-3.29
8144420	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.78E-03	-3.38	7.03E-03	-3.45
8144494	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.78E-03	-3.38	7.03E-03	-3.45
8149151	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.80E-03	-3.35	8.85E-03	-3.26
8149214	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.80E-03	-3.35	8.85E-03	-3.26
8149153	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.88E-03	-3.34	7.65E-03	-3.35
8149157	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.88E-03	-3.34	7.65E-03	-3.35
8144412	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.88E-03	-3.20	1.04E-02	-3.04
8144414	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	7.88E-03	-3.20	1.04E-02	-3.04
7948229	SLC43A3	solute carrier family 43, member 3	11q11	7.88E-03	6.63	6.48E-03	7.05
8095819	FAM47E	family with sequence similarity 47, member E	4q21.1	7.88E-03	-2.67	1.27E-03	3.55
7980485	DIO2	deiodinase, iodothyronine, type II	14q31.1	8.03E-03	-4.83	2.82E-02	3.48
7934297	-	Y_RNA ENSG00000201047	10q22.1	8.36E-03	3.82	2.14E-02	3.17
8149165	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	8.48E-03	-3.39	9.75E-03	-3.30
8149167	LINC00965	long intergenic non-protein coding RNA 965	8p23.1	8.48E-03	-3.39	9.75E-03	-3.30
7918064	COL11A1	collagen, type XI, alpha 1	1p21	8.50E-03	2.58	8.06E-05	-5.38
8103520	TRIM61	tripartite motif containing 61	4q32.3	8.50E-03	-2.86	7.51E-03	-2.92

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7986509	DNM1P46	dynamamin 1 pseudogene 46	15q26.3	8.59E-03	-4.86	3.81E-03	-6.00
7986512	DNM1P46	dynamamin 1 pseudogene 46	15q26.3	8.59E-03	-4.86	3.81E-03	-6.00
7986527	DNM1P46	dynamamin 1 pseudogene 46	15q26.3	8.59E-03	-4.86	3.81E-03	-6.00
8105436	MAP3K1	mitogen-activated protein kinase kinase kinase 1	5q11.2	8.62E-03	2.07	4.76E-07	8.08
8054439	ST6GAL2	ST6 beta-galactosamide alpha-2,6-sialyltransferase 2	2q11.3	8.72E-03	-2.94	6.26E-06	11.93
8124574	ZSCAN12	zinc finger and SCAN domain containing 12	6p21	8.72E-03	-2.41	1.81E-03	-2.99
7927186	RASSF4	Ras association domain family member 4	10q11.21	8.78E-03	3.47	1.21E-03	5.23
8124654	GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	6p21.31	8.85E-03	-2.98	1.41E-03	-4.14
8164521	SH3GLB2	SH3-domain GRB2-like endophilin B2	9q34	8.91E-03	-2.51	2.90E-03	-2.97
7953981	ETV6	ets variant 6	12p13	8.92E-03	2.33	7.75E-04	3.27
7945663	IFITM10	interferon induced transmembrane protein 10	11p15.5	8.92E-03	3.39	2.23E-02	2.82
8148304	TRIB1	tribbles pseudokinase 1	8q24.13	9.07E-03	-2.32	1.24E-04	4.30
8040223	RRM2	ribonucleotide reductase M2	2p25.1	9.41E-03	3.26	1.33E-03	4.74
8053467	SFTPB	surfactant protein B	2p11.2	9.50E-03	35.26	7.31E-04	164.67
7976816	SNORD114-3	small nucleolar RNA, C/D box 114-3	14q32.31	9.55E-03	6.30	7.29E-03	-6.85
8179595	GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	6p21.31	9.67E-03	-3.36	2.08E-03	-4.57
8117572	ZNF391	zinc finger protein 391	6p22.1	9.84E-03	-2.51	3.64E-03	-2.92
7981718	EPC1	enhancer of polycomb homolog 1 (Drosophila)	10p11	1.02E-02	10.02	2.70E-02	6.84
7919168	PDE4DIP	phosphodiesterase 4D interacting protein	1q12	1.02E-02	2.65	1.73E-02	2.43
8143850	CDK5	cyclin-dependent kinase 5	7q36	1.02E-02	2.98	2.49E-03	3.87
8155696	FAM122A	family with sequence similarity 122A	9q21.11	1.04E-02	-2.25	2.48E-04	-3.78
8119161	PIM1	Pim-1 proto-oncogene, serine/threonine kinase	6p21.2	1.04E-02	2.44	1.26E-02	2.37
7981046	IFI27L2	interferon, alpha-inducible protein 27-like 2	14q32.12	1.05E-02	-2.12	2.50E-03	-2.55
8178298	GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	6p21.31	1.05E-02	-3.24	1.63E-03	-4.69
8166264	-	-		1.05E-02	2.25	1.32E-02	2.19
7902913	CDC7	cell division cycle 7	1p22	1.06E-02	2.97	1.95E-03	4.05
8062427	VSTM2L	V-set and transmembrane domain containing 2 like	20q11.23	1.06E-02	2.55	3.36E-03	3.05
8022803	GAREM	GRB2 associated, regulator of MAPK1	18q12.1	1.07E-02	3.20	1.58E-02	2.99
7929282	HHEX	hematopoietically expressed homeobox	10q23.33	1.07E-02	-3.39	3.08E-02	2.71
8098328	GALNT7	polypeptide N-acetylgalactosaminyltransferase 7	4q31.1	1.08E-02	-2.02	7.96E-06	5.16
8094190	CC2D2A	coiled-coil and C2 domain containing 2A	4p15.32	1.08E-02	-2.82	3.04E-03	-3.51
7996160	LOC388282	uncharacterized LOC388282	16q13	1.09E-02	2.71	1.55E-03	3.72
8093171	MFI2	MFI2 antisense RNA 1	3q29	1.09E-02	3.48	9.59E-04	5.88
8157463	C9orf91	chromosome 9 open reading frame 91	9q32	1.13E-02	-2.31	1.31E-03	-3.11
8123951	ADTRP	androgen-dependent TFPI-regulating protein	6p24.1	1.13E-02	5.42	1.25E-04	20.81
8160033	SNRPE	small nuclear ribonucleoprotein polypeptide E	1q32	1.15E-02	2.26	1.46E-02	2.19
8022506	RNU6-702P	RNA, U6 small nuclear 702, pseudogene	-	1.17E-02	2.26	1.40E-02	2.21
8043360	IGKV3OR2-268	immunoglobulin kappa variable 3/OR2-268 (non-functional)	2p11.2	1.18E-02	2.94	9.03E-03	3.09
8158406	TBC1D13	TBC1 domain family, member 13	9q34.11	1.19E-02	-2.26	3.59E-03	-2.68
7986520	LOC101927628	uncharacterized LOC101927628	15q26.3	1.21E-02	-4.78	6.05E-03	-5.78
8104825	BRX1	BRX1, biogenesis of ribosomes, homolog (S. cerevisiae)	5p13.2	1.22E-02	2.22	1.37E-02	2.18

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8053801	ANKRD36	ankyrin repeat domain 36	2q11.2	1.25E-02	-2.38	1.06E-02	-2.46
7973743	BNIP3P1	BCL2/adenovirus E1B 19 kDa interacting protein 3 pseudogene 1	14q12	1.27E-02	2.59	3.98E-04	4.51
8081548	PVRL3	poliovirus receptor-related 3	3q13	1.29E-02	-4.93	3.52E-02	-3.69
7986517	DNM1P47	dynamin 1 pseudogene 47	15q26.3	1.31E-02	-4.80	6.20E-03	-5.91
7986522	DNM1P47	dynamin 1 pseudogene 47	15q26.3	1.31E-02	-4.80	6.20E-03	-5.91
8001449	IRX3	iroquois homeobox 3	16q12.2	1.36E-02	4.29	2.60E-02	3.62
7960177	SLC6A12	solute carrier family 6 member 12	12p13.33	1.40E-02	2.89	1.91E-04	6.40
7909127	MFSD4	major facilitator superfamily domain containing 4	1q32.1	1.40E-02	2.17	2.43E-03	2.77
8150988	ASPH	aspartate beta-hydroxylase	8q12.1	1.41E-02	-2.03	4.75E-03	-2.33
8159501	LCN12	lipocalin 12	9q34.3	1.41E-02	-2.76	1.43E-02	2.75
8163444	ZFP37	ZFP37 zinc finger protein	9q32	1.43E-02	-3.23	1.32E-02	-3.28
7943376	KIAA1377	KIAA1377	11q22.1	1.43E-02	-3.17	1.15E-02	-3.31
8009417	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	17q24.2	1.44E-02	2.35	2.19E-02	2.21
8019737	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	17q24.2	1.51E-02	2.32	2.14E-02	2.20
8170630	PNMAG6	paraneoplastic Ma antigen family member 6A	Xq28	1.51E-02	-2.35	5.94E-03	-2.72
8172787	SSX2B	synovial sarcoma, X breakpoint 2B	Xp11.22	1.53E-02	2.76	7.52E-05	6.84
7920264	S100A5	S100 calcium binding protein A5	1q21	1.56E-02	3.10	7.21E-04	5.85
8043470	IGKV3D-11	immunoglobulin kappa variable 3D-11	2p11.2	1.57E-02	6.36	1.91E-02	5.95
8140840	STEAP4	STEAP family member 4	7q21.12	1.59E-02	10.09	1.62E-02	10.02
8059852	MSL3P1	male-specific lethal 3 homolog (Drosophila) pseudogene 1	2q37	1.60E-02	-3.20	7.53E-03	-3.75
8138527	STEAP1B	STEAP family member 1B	7p15.3	1.65E-02	2.32	2.87E-03	3.01
8038126	CA11	carbonic anhydrase XI	19q13.3	1.68E-02	-3.52	4.21E-02	-2.82
8021169	LIPG	lipase, endothelial	18q21.1	1.69E-02	-3.83	2.51E-04	11.09
8068383	CLIC6	chloride intracellular channel 6	21q22.12	1.70E-02	-4.84	4.62E-03	-7.10
8174937	TENM1	teneurin transmembrane protein 1	Xq25	1.71E-02	-6.94	4.14E-02	5.00
7996027	CX3CL1	chemokine (C-X3-C motif) ligand 1	16q13	1.72E-02	3.54	9.46E-03	4.07
8043449	IGKV3D-20	immunoglobulin kappa variable 3D-20	2p11.2	1.74E-02	5.18	2.03E-02	4.93
7910398	RAB4A	RAB4A, member RAS oncogene family	1q42.13	1.75E-02	2.40	2.11E-02	2.33
8145281	SLC25A37	solute carrier family 25 member 37	8p21.2	1.76E-02	2.59	4.30E-03	3.32
7919971	RFX5	regulatory factor X, 5 (influences HLA class II expression)	1q21.3	1.78E-02	2.17	1.92E-02	2.15
8146839	C8orf34	chromosome 8 open reading frame 34	8q13	1.79E-02	4.29	4.52E-03	-6.40
8131583	BZW2	basic leucine zipper and W2 domains 2	7p21.1	1.80E-02	2.32	2.88E-04	4.42
7940182	OR4D10	olfactory receptor, family 4, subfamily D, member 10	11q12	1.82E-02	3.68	5.05E-03	5.04
7943803	DIXDC1	DIX domain containing 1	11q23.1	1.82E-02	-2.55	1.37E-03	-4.03
7960865	SLC2A3	solute carrier family 2 member 3	12p13.31	1.83E-02	4.96	7.78E-03	6.41
7986515	DNM1P47	dynamin 1 pseudogene 47	15q26.3	1.83E-02	-4.27	1.04E-02	-4.99
7986525	DNM1P47	dynamin 1 pseudogene 47	15q26.3	1.83E-02	-4.27	1.04E-02	-4.99
8133976	DBF4	DBF4 zinc finger	7q21.3	1.90E-02	2.23	8.51E-03	2.52
8102247	RPL34-AS1	RPL34 antisense RNA 1 (head to head)	4q25	1.91E-02	-2.49	1.44E-02	-2.63
8108301	KIF20A	kinesin family member 20A	5q31	1.92E-02	3.97	1.08E-02	4.63
8131944	NFE2L3	nuclear factor, erythroid 2-like 3	7p15.2	1.92E-02	4.67	3.64E-03	7.51

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7908793	ELF3	E74 like ETS transcription factor 3	1q32.1	1.93E-02	4.56	1.40E-04	19.55
8107706	LMNB1	lamin B1	5q23.2	1.93E-02	2.02	7.06E-04	3.17
8056184	ITGB6	integrin, beta 6	2q24.2	1.95E-02	7.26	3.44E-05	88.60
8161520	PGM5	phosphoglucomutase 5	9q13	1.99E-02	-2.07	5.79E-08	-17.86
7905406	CGN	cingulin	1q21	2.03E-02	2.37	4.25E-05	6.64
7923189	KIF14	kinesin family member 14	1q32.1	2.04E-02	2.55	7.59E-03	3.05
7980098	ALDH6A1	aldehyde dehydrogenase 6 family, member A1	14q24.3	2.04E-02	-2.36	2.34E-03	-3.38
8115666	NUDCD2	NudC domain containing 2	5q34	2.06E-02	2.21	1.65E-02	2.28
8097017	UGT8	UDP glycosyltransferase 8	4q26	2.07E-02	3.33	4.47E-04	7.87
7981722	IGHV3-7	immunoglobulin heavy variable 3-7	14q32.33	2.08E-02	9.22	4.35E-02	6.64
8040458	KCNS3	potassium voltage-gated channel modifier subfamily S member 3	2p24.2	2.09E-02	2.86	4.77E-04	6.07
8109612	ADRA1B	adrenoceptor alpha 1B	5q33.3	2.09E-02	2.68	6.36E-03	3.36
8077899	PPARG	peroxisome proliferator-activated receptor gamma	3p25	2.11E-02	2.86	1.13E-02	3.25
8154670	IFT74	intraflagellar transport 74	9p21.2	2.12E-02	-2.55	2.49E-02	-2.47
8025478	ZNF559	zinc finger protein 559	19p13.2	2.14E-02	-2.44	1.16E-02	-2.71
8068833	PDE9A	phosphodiesterase 9A	21q22.3	2.15E-02	2.34	1.44E-05	8.32
8143663	EZH2	enhancer of zeste 2 polycomb repressive complex 2 subunit	7q36.1	2.23E-02	2.77	3.40E-03	4.04
7990151	PKM	pyruvate kinase, muscle	15q22	2.25E-02	2.26	3.91E-02	2.06
8145570	ESCO2	establishment of sister chromatid cohesion N-acetyltransferase 2	8p21.1	2.26E-02	3.23	7.28E-03	4.18
8161945	RASEF	RAS and EF-hand domain containing	9q21.32	2.28E-02	-2.39	1.69E-04	5.75
8021470	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	18q21.32	2.28E-02	6.57	5.85E-03	10.91
8169235	FRMPD3	FERM and PDZ domain containing 3	Xq22	2.28E-02	3.30	1.65E-03	6.11
8167835	TRO	trophinin	Xp11.21	2.30E-02	-2.44	1.36E-03	-3.96
8110478	ZNF454	zinc finger protein 454	5q35.3	2.33E-02	-2.56	4.51E-03	-3.44
8037322	ETHE1	ethylmalonic encephalopathy 1	19q13.31	2.37E-02	2.37	2.19E-02	2.40
8063923	SLC04A1	solute carrier organic anion transporter family, member 4A1	20q13.33	2.38E-02	2.35	2.25E-03	3.47
7988380	DUOXA1	dual oxidase maturation factor 1	15q21.1	2.39E-02	-2.80	3.58E-02	2.57
8147030	STMN2	stathmin 2	8q21.13	2.46E-02	4.01	9.76E-03	5.20
7910001	DEGS1	delta(4)-desaturase, sphingolipid 1	1q42.11	2.47E-02	2.20	5.45E-03	2.80
8083166	TRPC1	transient receptor potential cation channel subfamily C member 1	3q23	2.49E-02	-2.87	3.40E-04	-7.07
8126303	TREM1	triggering receptor expressed on myeloid cells 1	6p21.1	2.53E-02	5.91	1.73E-03	15.39
8056363	SLC38A11	solute carrier family 38, member 11	2q24.3	2.55E-02	3.06	9.82E-03	3.80
8040365	TRIB2	tribbles pseudokinase 2	2p24.3	2.59E-02	2.43	2.35E-02	-2.49
8123936	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	6p24.2	2.60E-02	3.74	1.21E-02	4.60
8144228	FLJ36840	uncharacterized LOC645524	-	2.69E-02	-2.45	2.40E-02	-2.51
8044499	SLC20A1	solute carrier family 20 (phosphate transporter), member 1	2q14.1	2.94E-02	2.80	1.14E-03	5.38
8112376	CENPK	centromere protein K	5q12.3	3.01E-02	2.50	7.95E-04	5.02
8065719	PXMP4	peroxisomal membrane protein 4, 24 kDa	20q11.22	3.03E-02	-5.07	1.78E-02	-6.09
8084206	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	3q27.1	3.08E-02	2.63	1.52E-02	3.05
8043476	IGKV1D-43	immunoglobulin kappa variable 1D-43	2p11.2	3.11E-02	3.43	4.03E-02	3.20
7909601	SNORA16B	small nucleolar RNA, H/ACA box 16B	1q32.3	3.15E-02	2.79	1.15E-02	3.48

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7940173	OR5A1	olfactory receptor, family 5, subfamily A, member 1	11q12.1	3.25E-02	2.36	8.99E-03	2.96
7915910	PDZK1IP1	PDZK1 interacting protein 1	1p33	3.25E-02	8.78	7.85E-03	16.83
7953218	RAD51AP1	RAD51 associated protein 1	12p13.32	3.26E-02	2.07	1.71E-03	3.26
8054281	LONRF2	LON peptidase N-terminal domain and ring finger 2	2q11.2	3.32E-02	-2.47	1.89E-02	2.77
8001104	IGHV3OR16-7	immunoglobulin heavy variable 3/OR16-7 (pseudogene)	16p11.2	3.46E-02	4.66	4.02E-02	4.42
7906930	NUF2	NUF2, NDC80 kinetochore complex component	1q23.3	3.46E-02	2.83	1.07E-02	3.70
8124402	HIST1H1T	histone cluster 1, H1t	6p21.3	3.47E-02	2.13	1.06E-02	2.59
7917503	GBP3	guanylate binding protein 3	1p22.2	3.52E-02	3.52	5.11E-03	5.96
8007071	CDC6	cell division cycle 6	17q21.3	3.52E-02	2.21	2.13E-03	3.59
8103822	VEGFC	vascular endothelial growth factor C	4q34.3	3.61E-02	-2.20	7.95E-04	4.25
7990054	UACA	uveal autoantigen with coiled-coil domains and ankyrin repeats	15q23	3.66E-02	-3.02	3.65E-02	-3.02
8165735	CSF2RA	colony stimulating factor 2 receptor alpha subunit	Xp22.33	3.76E-02	2.37	2.82E-02	-2.51
8176306	CSF2RA	colony stimulating factor 2 receptor alpha subunit	Xp22.33	3.76E-02	2.37	2.82E-02	-2.51
8096845	EGF	epidermal growth factor	4q25	3.77E-02	2.43	9.81E-04	4.97
8115397	FAXDC2	fatty acid hydroxylase domain containing 2	5q33.2	3.80E-02	-3.10	3.54E-03	-5.63
7907830	QSOX1	quiescin Q6 sulfhydryl oxidase 1	1q24	3.85E-02	2.56	1.37E-02	3.19
7927710	CDK1	cyclin-dependent kinase 1	10q21.1	3.89E-02	3.32	1.03E-02	4.75
8019857	NDC80	NDC80 kinetochore complex component	18p11.32	3.90E-02	2.09	5.86E-03	2.85
8169598	ZCCHC12	zinc finger, CCHC domain containing 12	Xq24	3.90E-02	-3.17	5.98E-06	35.85
8146500	LYN	LYN proto-oncogene, Src family tyrosine kinase	8q13	3.98E-02	3.12	1.57E-02	3.98
7979505	SIX1	SIX homeobox 1	14q23.1	4.05E-02	2.87	3.74E-05	-15.94
7905731	UBAP2L	ubiquitin associated protein 2-like	1q21.3	4.11E-02	2.13	2.60E-02	2.30
7905929	EFNA1	ephrin-A1	1q21.3q22	4.21E-02	2.54	2.99E-03	4.44
8115623	ATP10B	ATPase, class V, type 10B	5q34	4.55E-02	2.91	3.24E-03	5.59
7932132	FRMD4A	FERM domain containing 4A	10p13	4.64E-02	2.32	4.60E-02	-2.32