

**Additional file 8. List of differentially expressed genes between PD patients and controls based on Rank Product analysis (RP).** Rank Product analysis was performed on normalized and filtered microarray data as described in the main text. The RP test was run using 100 permutations and an FDR of 0.005%, and looking for up- and down-regulated genes separately. Low RP-Values indicate high significance of the results. Genes are shown with the most significant first.

**Up-regulated genes**

<b>Affymetrix probe ID</b>	<b>Gene name</b>	<b>Gene symbol</b>	<b>p-Values</b>	<b>q-Values</b>	<b>RP-Values</b>	<b>Fold Change</b>
217207_s_at	butyrophilin-like 3	BTNL3	0	0	206.35	0.33
213831_at	major histocompatibility complex, class II, DQ alpha 1	HLA-DQA1	0	0	337.25	0.37
209480_at	major histocompatibility complex, class II, DQ beta 1	HLA-DQB1	0	0	448.67	0.42
201909_at	ribosomal protein S4, Y-linked 1	RPS4Y1	0	0	497.16	0.48
214131_at	chromosome Y open reading frame 15B	CYorf15B	0	0	589.67	0.51
206700_s_at	jumonji, AT rich interactive domain 1D	JARID1D	0	0	591.58	0.56
205000_at	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	DDX3Y	0	0	623.18	0.56
204409_s_at	eukaryotic translation initiation factor 1A, Y-linked	EIF1AY	0	0	628.71	0.55
211149_at	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	UTY	0	0	747.74	0.61
204410_at	eukaryotic translation initiation factor 1A, Y-linked	EIF1AY	0	0	758.92	0.59
205001_s_at	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	DDX3Y	0	0	791.40	0.63
205048_s_at	phosphoserine phosphatase	PSPH	0	0	810.22	0.66
206624_at	ubiquitin specific peptidase 9, Y-linked (fat facets-like, Drosophila)	USP9Y	0	0	810.49	0.69
209875_s_at	secreted phosphoprotein 1	SPP1	0	0	864.82	0.65
205767_at	epiregulin	EREG	0	0	878.49	0.65
212999_x_at	similar to Major histocompatibility complex, class II, DR beta 4	LOC100133484	0	0	889.36	0.68
207067_s_at	histidine decarboxylase	HDC	0	0	912.69	0.73
218345_at	transmembrane protein 176A	TMEM176A	0	0	1050.71	0.88
206279_at	protein kinase, Y-linked	PRKY	0	0	1066.04	0.75
209728_at	major histocompatibility complex, class II, DR beta 4	HLA-DRB4	0	0	1081.46	1.12
207269_at	defensin, alpha 4, corticostatin	DEFA4	0	0	1083.74	0.76
210322_x_at	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	UTY	0	0	1128.62	0.76
203757_s_at	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	CEACAM6	0	0	1130.74	0.73
220532_s_at	transmembrane protein 176B	TMEM176B	0	0	1147.14	0.98

204589_at	NUAK family, SNF1-like kinase, 1	NUAK1	0	0	1193.96	0.66
214983_at	testis-specific transcript, Y-linked 15	TTY15	0	0	1194.43	0.81
215838_at	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5	LILRA5	0	0	1198.81	0.67
212187_x_at	prostaglandin D2 synthase 21kDa (brain)	PTGDS	0	0	1213.10	0.72
202203_s_at	autocrine motility factor receptor	AMFR	0	0	1258.70	0.82
218340_s_at	ubiquitin-like modifier activating enzyme 6	UBA6	0	0	1261.83	0.80
206108_s_at	splicing factor, arginine/serine-rich 6	SFRS6	0	0	1275.36	0.76
201340_s_at	ectodermal-neural cortex (with BTB-like domain)	ENC1	0	0	1290.26	0.67
202018_s_at	lactotransferrin	LTF	0	0	1296.26	0.79
208067_x_at	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	UTY	0	0	1303.99	0.72
202072_at	heterogeneous nuclear ribonucleoprotein L	HNRNPL	0	0	1316.01	0.71
205624_at	carboxypeptidase A3 (mast cell)	CPA3	0	0	1332.81	0.90
206177_s_at	arginase, liver	ARG1	0	0	1337.55	0.71
201110_s_at	thrombospondin 1	THBS1	0	0	1343.09	0.79
219935_at	ADAM metallopeptidase with thrombospondin type 1 motif, 5	ADAMTS5	0	0	1369.69	0.73
209710_at	GATA binding protein 2	GATA2	0	0	1374.00	0.84
212730_at	desmuslin	DMN	0	0	1405.40	0.72
207063_at	chromosome Y open reading frame 14	CYorf14	0	0	1413.33	0.96
201058_s_at	myosin, light chain 9, regulatory	MYL9	0	0	1413.64	0.81
211748_x_at	prostaglandin D2 synthase 21kDa (brain)	PTGDS	0	0	1416.62	0.75
212509_s_at	matrix-remodelling associated 7	MXRA7	0	0	1437.64	0.75
211657_at	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	CEACAM6	0	0	1449.78	0.88
206647_at	hemoglobin, zeta	HBZ	0	0	1460.52	0.86
220120_s_at	erythrocyte membrane protein band 4.1 like 4A	EPB41L4A	0	0	1475.54	0.70
212793_at	dishevelled associated activator of morphogenesis 2	DAAM2	0	0	1484.05	0.76
221428_s_at	transducin (beta)-like 1 X-linked receptor 1	TBL1XR1	0	0	1496.24	0.88
209992_at	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	PFKFB2	0	0	1538.70	0.71
203815_at	glutathione S-transferase theta 1	GSTT1	0	0	1542.10	0.84
203789_s_at	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	SEMA3C	0	0	1543.80	0.74
203498_at	regulator of calcineurin 2	RCAN2	0	0	1547.99	0.82
207723_s_at	killer cell lectin-like receptor subfamily C, member 3	KLRC3	0	0	1560.26	0.76
211663_x_at	prostaglandin D2 synthase 21kDa (brain)	PTGDS	0	0	1567.19	0.76
215574_at	not yet annotated	NA	0	0	1570.36	0.83

205900_at	keratin 1	KRT1	0	0	1588.94	0.94
207496_at	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide)	MS4A2	0	0	1613.09	0.84
216361_s_at	MYST histone acetyltransferase (monocytic leukemia) 3	MYST3	0	0	1616.63	0.77
215037_s_at	BCL2-like 1	BCL2L1	0	0	1621.20	0.81
202286_s_at	tumor-associated calcium signal transducer 2	TACSTD2	0	0	1623.29	0.94
35201_at	heterogeneous nuclear ribonucleoprotein L	HNRNPL	0	0	1629.31	0.75
214218_s_at	X (inactive)-specific transcript (non-protein coding)	XIST	0	0	1629.93	2.43
221753_at	slingshot homolog 1 (Drosophila)	SSH1	0	0	1631.41	0.74
215666_at	major histocompatibility complex, class II, DR beta 4	HLA-DRB4	0	0	1632.70	1.12
206448_at	zinc finger protein 365	ZNF365	0	0	1639.00	0.76
209686_at	S100 calcium binding protein B	S100B	0	0	1650.43	1.10
207802_at	cysteine-rich secretory protein 3	CRISP3	0	0	1651.19	0.85
203184_at	fibrillin 2	FBN2	0	0	1654.79	0.74
212520_s_at	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	SMARCA4	7.24E-07	1.41E-04	1661.47	0.82
211430_s_at	immunoglobulin heavy constant gamma 3 (G3m marker)	IGHG3	7.24E-07	1.41E-04	1687.47	0.92
213338_at	transmembrane protein 158	TMEM158	1.45E-06	2.74E-04	1697.86	0.83
201369_s_at	zinc finger protein 36, C3H type-like 2	ZFP36L2	1.45E-06	2.74E-04	1700.06	0.78
212768_s_at	olfactomedin 4	OLFM4	1.45E-06	2.74E-04	1708.52	1.04
209706_at	NK3 homeobox 1	NKX3-1	1.45E-06	2.74E-04	1710.06	1.03
203216_s_at	myosin VI	MYO6	1.45E-06	2.74E-04	1710.42	0.77
210896_s_at	aspartate beta-hydroxylase	ASPH	1.45E-06	2.74E-04	1718.91	0.74
203638_s_at	fibroblast growth factor receptor 2	FGFR2	1.45E-06	2.74E-04	1724.42	0.87
205653_at	cathepsin G	CTSG	1.45E-06	2.74E-04	1746.61	0.88
202437_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	CYP1B1	1.45E-06	2.74E-04	1749.68	0.75
210321_at	granzyme H (cathepsin G-like 2, protein h-CCPX)	GZMH	1.45E-06	2.74E-04	1752.65	0.73
203215_s_at	myosin VI	MYO6	1.45E-06	2.74E-04	1752.72	0.72
204560_at	FK506 binding protein 5	FKBP5	1.45E-06	2.74E-04	1753.97	0.71
205158_at	ribonuclease, RNase A family, 4	RNASE4	1.45E-06	2.74E-04	1764.98	0.71
211654_x_at	major histocompatibility complex, class II, DQ beta 1	HLA-DQB1	1.45E-06	2.74E-04	1769.43	0.75
205654_at	complement component 4 binding protein, alpha	C4BPA	1.45E-06	2.74E-04	1771.64	0.89
202435_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	CYP1B1	2.17E-06	3.41E-04	1784.70	0.71
220122_at	multiple C2 domains, transmembrane 1	MCTP1	2.17E-06	3.41E-04	1785.38	0.79
206881_s_at	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3	LILRA3	2.90E-06	4.44E-04	1801.77	0.76
221728_x_at	X (inactive)-specific transcript (non-protein coding)	XIST	2.90E-06	4.44E-04	1807.00	2.35

202436_s_at	cytochrome P450, family 1, subfamily B, polypeptide 1	CYP1B1	2.90E-06	4.44E-04	1807.27	0.69
204148_s_at	POM (POM121 homolog, rat) and ZP3 fusion	POMZP3	2.90E-06	4.44E-04	1816.13	0.79
204415_at	interferon, alpha-inducible protein 6	IFI6	2.90E-06	4.44E-04	1819.15	0.77
214153_at	ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	ELOVL5	2.90E-06	4.44E-04	1820.53	0.76
202770_s_at	cyclin G2	CCNG2	3.62E-06	5.21E-04	1825.73	0.84
213319_s_at	cold shock domain protein A	CSDA	3.62E-06	5.21E-04	1828.32	0.78
207357_s_at	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10)	GALNT10	4.35E-06	6.12E-04	1829.48	0.72
205040_at	orosomucoid 1	ORM1	4.35E-06	6.12E-04	1829.49	0.90
204066_s_at	centaurin, gamma 2	CENTG2	4.35E-06	6.12E-04	1832.92	0.77
206676_at	carcinoembryonic antigen-related cell adhesion molecule 8	CEACAM8	4.35E-06	6.12E-04	1842.80	0.92
205110_s_at	fibroblast growth factor 13	FGF13	5.07E-06	6.86E-04	1854.84	1.00
211571_s_at	versican	VCAN	6.52E-06	8.74E-04	1874.05	0.71
220220_at	leucine rich repeat containing 37, member A4 (pseudogene)	LRRC37A4	7.24E-06	9.62E-04	1891.15	0.78
213478_at	kazrin	RP1-21O18.1	7.97E-06	0.001047619	1899.06	0.78
209031_at	cell adhesion molecule 1	CADM1	8.69E-06	0.001132075	1902.89	0.79
210504_at	Kruppel-like factor 1 (erythroid)	KLF1	9.42E-06	0.001214953	1906.12	0.95
215646_s_at	versican	VCAN	9.42E-06	0.001214953	1907.47	0.72
201341_at	ectodermal-neural cortex (with BTB-like domain)	ENC1	9.42E-06	0.001214953	1909.57	0.78
202411_at	interferon, alpha-inducible protein 27	IFI27	1.01E-05	0.001272727	1919.41	0.82
204141_at	tubulin, beta 2A	TUBB2A	1.09E-05	0.001351351	1922.91	1.18
206665_s_at	BCL2-like 1	BCL2L1	1.16E-05	0.001428571	1923.85	0.80
220553_s_at	PRP39 pre-mRNA processing factor 39 homolog (S. cerevisiae)	PRPF39	1.23E-05	0.001504425	1932.99	0.84
206618_at	interleukin 18 receptor 1	IL18R1	1.30E-05	0.001578947	1934.84	0.70
207674_at	Fc fragment of IgA, receptor for	FCAR	1.30E-05	0.001578947	1936.56	1.11
205728_at	not yet annotated	NA	1.30E-05	0.001578947	1938.23	0.78
204713_s_at	coagulation factor V (proaccelerin, labile factor)	F5	1.30E-05	0.001578947	1940.49	0.76
218872_at	tescalcin	TESC	1.30E-05	0.001578947	1942.22	0.93
219630_at	PDZK1 interacting protein 1	PDZK1IP1	1.30E-05	0.001578947	1947.57	0.90
208710_s_at	adaptor-related protein complex 3, delta 1 subunit	AP3D1	1.52E-05	0.00175	1963.75	0.83
206371_at	folate receptor 3 (gamma)	FOLR3	1.52E-05	0.00175	1972.85	0.83
205041_s_at	orosomucoid 1	ORM1	1.52E-05	0.00175	1975.45	0.91
212816_s_at	cystathionine-beta-synthase	CBS	1.52E-05	0.00175	1975.67	0.81
205557_at	bactericidal/permeability-increasing protein	BPI	1.52E-05	0.00175	1975.74	0.92
208451_s_at	complement component 4B (Childo blood group)	C4B	1.67E-05	0.00184	1988.91	0.82

203559_s_at	amiloride binding protein 1 (amine oxidase (copper-containing))	ABP1	1.74E-05	0.001904762	1993.15	0.88
215839_at	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5	LILRA5	1.74E-05	0.001904762	1993.92	0.75
203319_s_at	zinc finger protein 148	ZNF148	1.81E-05	0.001953125	2004.08	0.75
209960_at	hepatocyte growth factor (hepapoietin A; scatter factor)	HGF	1.81E-05	0.001953125	2006.82	0.79
210517_s_at	A kinase (PRKA) anchor protein 12	AKAP12	1.81E-05	0.001953125	2006.85	0.94
206025_s_at	tumor necrosis factor, alpha-induced protein 6	TNFAIP6	1.81E-05	0.001953125	2012.03	0.80
215242_at	phosphatidylinositol glycan anchor biosynthesis, class C	PIGC	1.81E-05	0.001953125	2012.08	1.04
203231_s_at	ataxin 1	ATXN1	1.88E-05	0.001954887	2015.78	0.84
201005_at	CD9 molecule	CD9	1.96E-05	0.002014926	2016.96	0.92
214036_at	not yet annotated	NA	2.03E-05	0.002074074	2021.69	0.77
204794_at	dual specificity phosphatase 2	DUSP2	2.61E-05	0.002647059	2034.99	0.80
214215_s_at	La ribonucleoprotein domain family, member 5	LARP5	2.90E-05	0.002919708	2042.10	0.76
214453_s_at	interferon-induced protein 44	IFI44	2.90E-05	0.002919708	2044.43	0.85
201333_s_at	Rho guanine nucleotide exchange factor (GEF) 12	ARHGEF12	2.90E-05	0.002919708	2045.46	0.85
206757_at	phosphodiesterase 5A, cGMP-specific	PDE5A	3.12E-05	0.003071429	2048.71	0.72
202509_s_at	tumor necrosis factor, alpha-induced protein 2	TNFAIP2	3.26E-05	0.003191489	2053.88	0.86
215990_s_at	B-cell CLL/lymphoma 6	BCL6	3.26E-05	0.003191489	2054.12	0.77
203936_s_at	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	MMP9	3.33E-05	0.003216783	2056.74	0.80
206857_s_at	FK506 binding protein 1B, 12.6 kDa	FKBP1B	3.40E-05	0.003263889	2060.67	0.89
210797_s_at	2'-5'-oligoadenylate synthetase-like	OASL	3.48E-05	0.003310345	2063.03	0.76
206785_s_at	killer cell lectin-like receptor subfamily C, member 2	KLRC2	3.62E-05	0.003424658	2072.89	0.82
219519_s_at	sialic acid binding Ig-like lectin 1, sialoadhesin	SIGLEC1	3.69E-05	0.003469388	2074.52	0.82
204533_at	chemokine (C-X-C motif) ligand 10	CXCL10	3.84E-05	0.003581081	2075.99	0.92
201392_s_at	insulin-like growth factor 2 receptor	IGF2R	4.06E-05	0.003758389	2078.86	0.78
203504_s_at	ATP-binding cassette, sub-family A (ABC1), member 1	ABCA1	4.13E-05	0.0038	2079.69	0.81
215684_s_at	activating signal cointegrator 1 complex subunit 2	ASCC2	4.56E-05	0.004172185	2087.54	0.86
221268_s_at	sphingosine-1-phosphate phosphatase 1	SGPP1	4.78E-05	0.004342105	2093.53	1.10
203961_at	nebulin	NEBL	5.00E-05	0.004509804	2102.49	1.17
220404_at	G protein-coupled receptor 97	GPR97	5.14E-05	0.00461039	2106.53	0.78
206877_at	MAX dimerization protein 1	MXD1	5.22E-05	0.004645161	2106.92	0.79
203942_s_at	MAP/microtubule affinity-regulating kinase 2	MARK2	5.29E-05	0.004679487	2110.39	0.82

**Down-regulated genes**

Affymetrix probe ID	Gene name	Gene symbol	p-Values	q-Values	RP-Values	Fold Change
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203290_at	major histocompatibility complex, class II, DQ alpha 1	HLA-DQA1	0	0	192.80	4.96
214218_s_at	X (inactive)-specific transcript (non-protein coding)	XIST	0	0	367.79	2.43
221728_x_at	X (inactive)-specific transcript (non-protein coding)	XIST	0	0	413.06	2.35
217671_at	not yet annotated	NA	0	0	655.43	1.77
221491_x_at	major histocompatibility complex, class II, DR beta 3	HLA-DRB3	0	0	710.39	1.54
209841_s_at	leucine rich repeat neuronal 3	LRRN3	0	0	710.44	1.71
220281_at	solute carrier family 12 (sodium/potassium/chloride transporters), member 1	SLC12A1	0	0	844.85	1.29
210432_s_at	sodium channel, voltage-gated, type III, alpha subunit	SCN3A	0	0	891.23	1.54
209728_at	major histocompatibility complex, class II, DR beta 4	HLA-DRB4	0	0	933.19	1.12
213825_at	oligodendrocyte lineage transcription factor 2	OLIG2	0	0	950.93	1.48
219179_at	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis)	DACT1	0	0	955.19	1.44
204141_at	tubulin, beta 2A	TUBB2A	0	0	970.29	1.18
205493_s_at	dihydropyrimidinase-like 4	DPYSL4	0	0	974.26	1.56
205826_at	myomesin (M-protein) 2, 165kDa	MYOM2	0	0	1003.57	1.25
215666_at	major histocompatibility complex, class II, DR beta 4	HLA-DRB4	0	0	1035.27	1.12
215374_at	poly(A) polymerase alpha	PAPOLA	0	0	1052.13	1.50
207328_at	arachidonate 15-lipoxygenase	ALOX15	0	0	1056.14	1.32
208253_at	sialic acid binding Ig-like lectin 8	SIGLEC8	0	0	1084.14	1.39
207674_at	Fc fragment of IgA, receptor for	FCAR	0	0	1107.21	1.11
215652_at	succinate dehydrogenase complex, subunit D, integral membrane protein	SDHD	0	0	1125.90	1.71
219532_at	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4	ELOVL4	0	0	1128.12	1.48
215083_at	not yet annotated	NA	0	0	1132.27	1.50
209840_s_at	leucine rich repeat neuronal 3	LRRN3	0	0	1141.26	1.42
213382_at	macrophage stimulating, pseudogene 9	MSTP9	0	0	1163.18	1.33
220421_at	butyrophilin-like 8	BTNL8	0	0	1166.15	1.33
209686_at	S100 calcium binding protein B	S100B	0	0	1167.24	1.10
221205_at	not yet annotated	NA	0	0	1201.03	1.44
222285_at	immunoglobulin heavy constant gamma 1 (G1m marker)	IGHG1	0	0	1213.23	1.52
206632_s_at	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B	APOBEC3B	0	0	1215.96	1.30
220532_s_at	transmembrane protein 176B	TMEM176B	0	0	1222.04	0.98
203961_at	nebulette	NEBL	0	0	1247.28	1.17
218975_at	collagen, type V, alpha 3	COL5A3	0	0	1270.21	1.18
221268_s_at	sphingosine-1-phosphate phosphatase 1	SGPP1	0	0	1277.24	1.10

39318_at	T-cell leukemia/lymphoma 1A	TCL1A	0	0	1288.39	1.47
217295_at	mucin 8	MUC8	0	0	1291.13	1.21
219301_s_at	contactin associated protein-like 2	CNTNAP2	0	0	1293.74	1.39
209995_s_at	T-cell leukemia/lymphoma 1A	TCL1A	0	0	1306.93	1.47
213674_x_at	immunoglobulin heavy constant gamma 1 (G1m marker)	IGHG1	0	0	1334.25	1.46
52255_s_at	collagen, type V, alpha 3	COL5A3	0	0	1336.42	1.19
214537_at	histone cluster 1, H1d	HIST1H1D	0	0	1341.42	1.28
209583_s_at	CD200 molecule	CD200	0	0	1348.33	1.36
212558_at	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	SPRY1	0	0	1348.85	1.36
205594_at	zinc finger protein 652	ZNF652	0	0	1349.81	1.49
206700_s_at	jumonji, AT rich interactive domain 1D	JARID1D	0	0	1350.60	0.56
219671_at	hippocalcin like 4	HPCAL4	0	0	1372.25	1.50
206641_at	tumor necrosis factor receptor superfamily, member 17	TNFRSF17	0	0	1405.75	1.23
206492_at	fragile histidine triad gene	FHIT	0	0	1416.26	1.44
209706_at	NK3 homeobox 1	NKX3-1	0	0	1430.14	1.03
207509_s_at	leukocyte-associated immunoglobulin-like receptor 2	LAIR2	0	0	1430.73	1.33
203911_at	RAP1 GTPase activating protein	RAP1GAP	0	0	1432.33	1.27
209371_s_at	SH3-domain binding protein 2	SH3BP2	0	0	1442.99	1.17
212768_s_at	olfactomedin 4	OLFM4	0	0	1471.99	1.04
203962_s_at	nebullette	NEBL	0	0	1481.45	1.20
218793_s_at	sex comb on midleg-like 1 (Drosophila)	SCML1	0	0	1481.71	1.25
207289_at	matrix metalloproteinase 25	MMP25	0	0	1490.41	1.34
205917_at	zinc finger protein 264	ZNF264	0	0	1504.92	1.37
219300_s_at	contactin associated protein-like 2	CNTNAP2	0	0	1506.67	1.29
215543_s_at	like-glycosyltransferase	LARGE	0	0	1514.37	1.42
215621_s_at	immunoglobulin heavy constant gamma 1 (G1m marker)	IGHG1	0	0	1523.92	1.37
221771_s_at	M-phase phosphoprotein 8	MPHOSPH8	0	0	1526.13	1.34
210121_at	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	B3GALT2	0	0	1527.71	1.38
206851_at	ribonuclease, RNase A family, 3 (eosinophil cationic protein)	RNASE3	0	0	1548.77	1.19
218345_at	transmembrane protein 176A	TMEM176A	0	0	1567.01	0.88
214945_at	family with sequence similarity 153, member B	FAM153B	0	0	1568.07	1.34
214407_x_at	glycophorin B (MNS blood group)	GYPB	1.45E-06	3.03E-04	1577.94	1.29
215242_at	phosphatidylinositol glycan anchor biosynthesis, class C	PIGC	2.17E-06	4.29E-04	1582.29	1.04
205000_at	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	DDX3Y	2.17E-06	4.29E-04	1583.06	0.56
214180_at	mannosidase, alpha, class 1C, member 1	MAN1C1	2.17E-06	4.29E-04	1589.41	1.48

205238_at	chromosome X open reading frame 34	CXorf34	2.17E-06	4.29E-04	1591.42	1.32
215761_at	Dmx-like 2	DMXL2	2.90E-06	5.13E-04	1600.27	1.35
215892_at	zinc finger protein 440	ZNF440	2.90E-06	5.13E-04	1601.37	1.38
220068_at	pre-B lymphocyte gene 3	VPREB3	2.90E-06	5.13E-04	1602.28	1.42
213268_at	calmodulin binding transcription activator 1	CAMTA1	2.90E-06	5.13E-04	1609.06	1.26
204409_s_at	eukaryotic translation initiation factor 1A, Y-linked	EIF1AY	2.90E-06	5.13E-04	1639.00	0.55
210548_at	chemokine (C-C motif) ligand 23	CCL23	2.90E-06	5.13E-04	1642.99	1.09
206873_at	carbonic anhydrase VI	CA6	2.90E-06	5.13E-04	1645.34	1.37
219389_at	sushi domain containing 4	SUSD4	2.90E-06	5.13E-04	1651.28	1.37
205389_s_at	ankyrin 1, erythrocytic	ANK1	3.62E-06	6.25E-04	1662.21	1.24
216002_at	not yet annotated	NA	3.62E-06	6.25E-04	1662.80	1.26
206310_at	serine peptidase inhibitor, Kazal type 2 (acrosin-trypsin inhibitor)	SPINK2	4.35E-06	6.59E-04	1669.91	1.35
208450_at	lectin, galactoside-binding, soluble, 2	LGALS2	4.35E-06	6.59E-04	1671.14	1.16
203038_at	protein tyrosine phosphatase, receptor type, K	PTPRK	4.35E-06	6.59E-04	1671.72	1.33
201406_at	ribosomal protein L36a	RPL36A	4.35E-06	6.59E-04	1672.52	1.18
210718_s_at	ADP-ribosylation factor-like 17 pseudogene 1	ARL17P1	4.35E-06	6.59E-04	1673.08	1.20
215786_at	not yet annotated	NA	4.35E-06	6.59E-04	1673.85	1.41
216247_at	ribosomal protein S20	RPS20	4.35E-06	6.59E-04	1675.94	1.31
201295_s_at	WD repeat and SOCS box-containing 1	WSB1	4.35E-06	6.59E-04	1681.11	1.17
210549_s_at	chemokine (C-C motif) ligand 23	CCL23	4.35E-06	6.59E-04	1688.98	1.11
201909_at	ribosomal protein S4, Y-linked 1	RPS4Y1	4.35E-06	6.59E-04	1690.66	0.48
202904_s_at	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	LSM5	4.35E-06	6.59E-04	1697.36	1.34
220059_at	signal transducing adaptor family member 1	STAP1	5.80E-06	8.08E-04	1721.83	1.34
205110_s_at	fibroblast growth factor 13	FGF13	5.80E-06	8.08E-04	1722.94	1.00
210701_at	craniofacial development protein 1	CFDP1	5.80E-06	8.08E-04	1724.30	1.40
207063_at	chromosome Y open reading frame 14	CYorf14	5.80E-06	8.08E-04	1735.98	0.96
220085_at	helicase, lymphoid-specific	HELLS	5.80E-06	8.08E-04	1737.70	1.40
221170_at	histamine receptor H4	HRH4	5.80E-06	8.08E-04	1750.48	1.23
215133_s_at	family with sequence similarity 153, member B	FAM153B	5.80E-06	8.08E-04	1751.77	1.35
219672_at	erythroid associated factor	ERAF	5.80E-06	8.08E-04	1752.58	1.15
222375_at	not yet annotated	NA	6.52E-06	8.65E-04	1763.25	1.27
219815_at	galactose-3-O-sulfotransferase 4	GAL3ST4	6.52E-06	8.65E-04	1765.45	1.40
203088_at	fibulin 5	FBLN5	6.52E-06	8.65E-04	1766.94	1.28
216133_at	T cell receptor alpha locus	TRA@	6.52E-06	8.65E-04	1769.49	1.38
216022_at	not yet annotated	NA	6.52E-06	8.65E-04	1769.99	1.33
217422_s_at	CD22 molecule	CD22	7.24E-06	9.52E-04	1783.28	1.38



38521_at	CD22 molecule	CD22	7.97E-06	0.001009174	1799.78	1.37
213831_at	major histocompatibility complex, class II, DQ alpha 1	HLA-DQA1	7.97E-06	0.001009174	1800.71	0.37
207434_s_at	FXYD domain containing ion transport regulator 2	FXYD2	7.97E-06	0.001009174	1805.06	1.32
37462_i_at	splicing factor 3a, subunit 2, 66kDa	SF3A2	7.97E-06	0.001009174	1811.72	1.24
214012_at	endoplasmic reticulum aminopeptidase 1	ERAP1	8.69E-06	0.001081081	1812.83	1.12
215768_at	not yet annotated	NA	8.69E-06	0.001081081	1815.89	1.19
209602_s_at	GATA binding protein 3	GATA3	1.09E-05	0.001339286	1833.19	1.32
220729_at	not yet annotated	NA	1.16E-05	0.001415929	1836.59	1.14
204581_at	CD22 molecule	CD22	1.30E-05	0.001565217	1845.65	1.37
207979_s_at	CD8b molecule	CD8B	1.30E-05	0.001565217	1871.50	1.30
213994_s_at	spondin 1, extracellular matrix protein	SPON1	1.45E-05	0.001724138	1876.53	1.34
205624_at	carboxypeptidase A3 (mast cell)	CPA3	1.52E-05	0.001735537	1884.04	0.90
216763_at	KN motif and ankyrin repeat domains 1	KANK1	1.52E-05	0.001735537	1885.04	1.24
219215_s_at	solute carrier family 39 (zinc transporter), member 4	SLC39A4	1.52E-05	0.001735537	1888.51	1.34
202286_s_at	tumor-associated calcium signal transducer 2	TACSTD2	1.52E-05	0.001735537	1888.54	0.94
205372_at	pleiomorphic adenoma gene 1	PLAG1	1.52E-05	0.001735537	1890.74	1.25
206606_at	lipase, hepatic	LIPC	1.59E-05	0.00176	1893.08	1.28
216833_x_at	glycophorin B (MNS blood group)	GYPB	1.59E-05	0.00176	1895.37	1.25
215956_at	not yet annotated	NA	1.59E-05	0.00176	1901.20	1.28
205674_x_at	FXYD domain containing ion transport regulator 2	FXYD2	1.59E-05	0.00176	1904.65	1.35
211149_at	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	UTY	1.67E-05	0.001825397	1906.79	0.61
221747_at	tensin 1	TNS1	1.88E-05	0.002015504	1920.41	1.12
210854_x_at	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	SLC6A8	1.88E-05	0.002015504	1921.63	1.06
214997_at	golgi autoantigen, golgin subfamily a, 1	GOLGA1	1.88E-05	0.002015504	1921.84	1.39
213843_x_at	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	SLC6A8	1.96E-05	0.002061069	1929.31	1.07
214731_at	CTTNBP2 N-terminal like	CTTNBP2NL	1.96E-05	0.002061069	1933.62	1.32
205900_at	keratin 1	KRT1	2.10E-05	0.002101449	1936.58	0.94
219846_at	gon-4-like (C. elegans)	GON4L	2.10E-05	0.002101449	1937.43	1.35
220784_s_at	urotensin 2	UTS2	2.10E-05	0.002101449	1943.80	1.29
219308_s_at	adenylate kinase 5	AK5	2.10E-05	0.002101449	1945.58	1.34
214877_at	CDK5 regulatory subunit associated protein 1-like 1	CDKAL1	2.10E-05	0.002101449	1951.73	1.14
215555_at	not yet annotated	NA	2.10E-05	0.002101449	1953.09	1.31
209066_x_at	ubiquinol-cytochrome c reductase binding protein	UQCRB	2.10E-05	0.002101449	1958.85	1.09
205802_at	transient receptor potential cation channel, subfamily C, member 1	TRPC1	2.17E-05	0.002112676	1961.49	1.13

207815_at	platelet factor 4 variant 1	PF4V1	2.17E-05	0.002112676	1962.95	1.09
206478_at	KIAA0125	KIAA0125	2.17E-05	0.002112676	1967.15	1.28
222101_s_at	dachsous 1 (Drosophila)	DCHS1	2.17E-05	0.002112676	1968.11	1.28
213846_at	cytochrome c oxidase subunit VIIc	COX7C	2.32E-05	0.002237762	1977.92	1.17
219629_at	family with sequence similarity 118, member A	FAM118A	2.39E-05	0.002275862	1982.50	1.04
205803_s_at	transient receptor potential cation channel, subfamily C, member 1	TRPC1	2.39E-05	0.002275862	1983.15	1.05
216067_at	not yet annotated	NA	2.61E-05	0.002465753	1987.71	1.27
211310_at	enhancer of zeste homolog 1 (Drosophila)	EZH1	2.75E-05	0.002585034	1993.58	1.36
204410_at	eukaryotic translation initiation factor 1A, Y-linked	EIF1AY	3.12E-05	0.002905405	2004.20	0.59
211645_x_at	not yet annotated	NA	3.19E-05	0.00295302	2014.22	1.21
210756_s_at	Notch homolog 2 (Drosophila)	NOTCH2	3.26E-05	0.002980132	2024.31	1.28
211643_x_at	immunoglobulin kappa constant	IGKC	3.26E-05	0.002980132	2027.25	1.25
220820_at	not yet annotated	NA	3.33E-05	0.003006536	2029.46	1.30
221428_s_at	transducin (beta)-like 1 X-linked receptor 1	TBL1XR1	3.33E-05	0.003006536	2030.01	0.88
206398_s_at	CD19 molecule	CD19	3.40E-05	0.003051948	2034.81	1.30
205544_s_at	complement component (3d/Epstein Barr virus) receptor 2	CR2	3.48E-05	0.003076923	2036.66	1.29
207681_at	chemokine (C-X-C motif) receptor 3	CXCR3	3.48E-05	0.003076923	2036.94	1.30
209883_at	glycosyltransferase 25 domain containing 2	GLT25D2	3.55E-05	0.003121019	2042.43	1.20
213172_at	tetratricopeptide repeat domain 9	TTC9	3.62E-05	0.003164557	2044.84	1.33
212805_at	similar to KIAA0367	LOC100129762	3.84E-05	0.0033125	2050.93	1.07
212190_at	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	SERPINE2	3.84E-05	0.0033125	2055.43	1.27
208650_s_at	CD24 molecule	CD24	3.98E-05	0.003416149	2057.55	1.24
213922_at	tau tubulin kinase 2	TTBK2	4.20E-05	0.003515152	2060.91	1.36
220637_at	family with sequence similarity 124B	FAM124B	4.20E-05	0.003515152	2062.36	1.24
220494_s_at	not yet annotated	NA	4.20E-05	0.003515152	2063.69	1.09
209807_s_at	nuclear factor I/X (CCAAT-binding transcription factor)	NFIX	4.20E-05	0.003515152	2065.51	1.09
219315_s_at	transmembrane protein 204	TMEM204	4.27E-05	0.003532934	2066.26	1.33
74694_s_at	rabaptin, RAB GTPase binding effector protein 2	RABEP2	4.27E-05	0.003532934	2066.42	1.30
217647_at	not yet annotated	NA	4.42E-05	0.003609468	2069.88	1.39
221477_s_at	superoxide dismutase 2, mitochondrial	SOD2	4.42E-05	0.003609468	2073.28	1.17
217397_at	T cell receptor alpha locus	TRA@	4.64E-05	0.003657143	2088.15	1.29
201151_s_at	muscleblind-like (Drosophila)	MBNL1	4.64E-05	0.003657143	2088.44	0.98
203476_at	trophoblast glycoprotein	TPBG	4.64E-05	0.003657143	2089.94	1.20
222253_s_at	POM121-like protein	DKFZP434P211	4.64E-05	0.003657143	2090.52	1.15
207459_x_at	glycophorin B (MNS blood group)	GYPB	4.64E-05	0.003657143	2091.80	1.18
209381_x_at	splicing factor 3a, subunit 2, 66kDa	SF3A2	4.64E-05	0.003657143	2094.31	1.20

206088_at	leucine rich repeat containing 37A	LRRC37A	4.85E-05	0.003806818	2097.24	1.18
206624_at	ubiquitin specific peptidase 9, Y-linked (fat facets-like, Drosophila)	USP9Y	4.93E-05	0.003841808	2100.00	0.69
78383_at	similar to hCG1811779	LOC100129250	5.14E-05	0.003988764	2103.08	1.33
214666_x_at	iron-responsive element binding protein 2	IREB2	5.22E-05	0.003956044	2108.86	1.15
210744_s_at	interleukin 5 receptor, alpha	IL5RA	5.22E-05	0.003956044	2109.45	1.14
213804_at	inositol polyphosphate-5-phosphatase, 75kDa	INPP5B	5.22E-05	0.003956044	2113.64	1.35
217539_at	chromosome 18 open reading frame 25	C18orf25	5.22E-05	0.003956044	2114.26	1.32
216401_x_at	similar to Ig kappa chain V-I region HK102 precursor	LOC652493	5.29E-05	0.003924731	2116.63	1.26
206171_at	adenosine A3 receptor	ADORA3	5.29E-05	0.003924731	2116.97	1.12
209816_at	patched homolog 1 (Drosophila)	PTCH1	5.29E-05	0.003924731	2120.32	1.18
211343_s_at	collagen, type XIII, alpha 1	COL13A1	5.29E-05	0.003924731	2121.77	1.27
209662_at	centrin, EF-hand protein, 3 (CDC31 homolog, yeast)	CETN3	5.36E-05	0.00393617	2125.17	1.09
215812_s_at	solute carrier family 6 (neurotransmitter transporter, creatine), member 10 (pseudogene)	SLC6A10P	5.36E-05	0.00393617	2125.32	1.04
207520_at	TROVE domain family, member 2	TROVE2	5.72E-05	0.004179894	2132.17	1.20
208428_at	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	TAP2	5.94E-05	0.004315789	2135.72	1.14
215648_at	not yet annotated	NA	6.01E-05	0.004322917	2138.06	1.31
205049_s_at	CD79a molecule, immunoglobulin-associated alpha	CD79A	6.01E-05	0.004322917	2138.08	1.28
201754_at	cytochrome c oxidase subunit VIc	COX6C	6.23E-05	0.004410257	2142.04	1.11
209480_at	major histocompatibility complex, class II, DQ beta 1	HLA-DQB1	6.23E-05	0.004410257	2142.25	0.42
211106_at	not yet annotated	NA	6.23E-05	0.004410257	2142.87	1.28
209871_s_at	amyloid beta (A4) precursor protein-binding, family A, member 2	APBA2	6.37E-05	0.004489796	2146.96	1.37
213534_s_at	PAS domain containing serine/threonine kinase	PASK	6.66E-05	0.004646465	2149.68	1.27
34478_at	RAB11B, member RAS oncogene family	RAB11B	6.66E-05	0.004646465	2149.81	1.25
205732_s_at	nuclear receptor coactivator 2	NCOA2	6.81E-05	0.0047	2151.61	1.07
204612_at	protein kinase (cAMP-dependent, catalytic) inhibitor alpha	PKIA	6.81E-05	0.0047	2153.24	1.29
214973_x_at	immunoglobulin heavy constant delta	IGHD	6.95E-05	0.004752475	2153.53	1.28
205950_s_at	carbonic anhydrase I	CA1	6.95E-05	0.004752475	2154.85	1.08
203178_at	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	GATM	7.10E-05	0.004803922	2156.97	1.18
220177_s_at	transmembrane protease, serine 3	TMPRSS3	7.10E-05	0.004803922	2157.01	1.29
215176_x_at	netrin 2-like (chicken)	NTN2L	7.17E-05	0.004782609	2157.90	1.23
211517_s_at	interleukin 5 receptor, alpha	IL5RA	7.17E-05	0.004782609	2159.27	1.15
216576_x_at	netrin 2-like (chicken)	NTN2L	7.17E-05	0.004782609	2160.55	1.20
206507_at	zinc finger and SCAN domain containing 12	ZSCAN12	7.46E-05	0.004951923	2164.55	1.28