

Significant genes; After 72 hours PN compared to baseline.

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
AFFX-BioB-3_at			0.012856	-1.790717
205361_s_at	PFDN4	prefoldin subunit 4	0.018899	-1.621844
205590_at	RASGRP1	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	0.027878	-1.543893
222018_at	NACA /// NACA2 /// NACAP1	nascent polypeptide-associated complex alpha subunit /// nascent polypeptide-associated complex alpha subunit 2 /// nascent-polypeptide-associated complex alpha polypeptide pseudogene 1	0.03993	-1.604775
201324_at	EMP1	epithelial membrane protein 1	0.01138	-1.538368
203164_at	SLC33A1	solute carrier family 33 (acetyl-CoA transporter), member 1	0.021726	-1.539836
201745_at	TWF1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	0.022967	-1.572882
203775_at	SLC25A13	solute carrier family 25, member 13 (citrin)	0.011539	-1.529356
208498_s_at	AMY1A /// AMY1B /// AMY1C /// AMY2A /// AMY2B	amylase, alpha 1A (salivary) /// amylase, alpha 1B (salivary) /// amylase, alpha 1C (salivary) /// amylase, alpha 2A (pancreatic) /// amylase, alpha 2B (pancreatic)	0.015503	-1.525375
219317_at	POL1	polymerase (DNA directed) iota	0.036	-1.540143
218668_s_at	RAP2C	RAP2C, member of RAS oncogene family	0.020892	-1.510198
201063_at	RCN1	reticulocalbin 1, EF-hand calcium binding domain	0.013376	-1.509688
205554_s_at	DNASE1L3	deoxyribonuclease I-like 3	0.020024	-1.551841
218042_at	COPS4	COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis)	0.012542	-1.498592
207840_at	CD160	CD160 molecule	0.04209	-1.4873
202863_at	SP100	SP100 nuclear antigen	0.019718	-1.461626
202630_at	APPBP2	amyloid beta precursor protein (cytoplasmic tail) binding protein 2	0.021508	-1.455061
202633_at	TOPBP1	topoisomerase (DNA) II binding protein 1	0.012938	-1.454406
209112_at	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	0.030741	-1.453676
218090_s_at	BRWD2	bromodomain and WD repeat domain containing 2	0.016457	-1.451646
201502_s_at	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	0.027382	-1.450014
201812_s_at	C4orf46 /// TOMM7	chromosome 4 open reading frame 46 /// translocase of outer mitochondrial membrane 7 homolog (yeast)	0.024463	-1.446841
201829_at	NET1	neuroepithelial cell transforming 1	0.047599	-1.439326
212205_at	H2AFV	H2A histone family, member V	0.035243	-1.438805
201916_s_at	SEC63	SEC63 homolog (S. cerevisiae)	0.023647	-1.433749
208985_s_at	EIF3J	eukaryotic translation initiation factor 3, subunit J	0.027202	-1.431678
202165_at	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	0.029347	-1.430202
201472_at	VBP1	von Hippel-Lindau binding protein 1	0.012019	-1.429545
209903_s_at	ATR	ataxia telangiectasia and Rad3 related	0.042622	-1.427077
205345_at	BARD1	BRCA1 associated RING domain 1	0.019284	-1.426709

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
209250_at	DEGS1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)	0.047777	-1.424692
217902_s_at	HERC2	hect domain and RLD 2	0.031446	-1.420275
205324_s_at	FTSJ1	FtsJ homolog 1 (E. coli)	0.024303	-1.420256
202396_at	TCERG1	transcription elongation regulator 1	0.033373	-1.417458
208864_s_at	TXN	thioredoxin	0.028426	-1.411143
201558_at	RAE1	RAE1 RNA export 1 homolog (S. pombe)	0.018284	-1.410426
203302_at	DCK	deoxycytidine kinase	0.049794	-1.407906
221218_s_at	TPK1	thiamin pyrophosphokinase 1	0.017298	-1.40601
212508_at	MOAP1	modulator of apoptosis 1	0.033079	-1.402332
209523_at	TAF2	TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 150kDa	0.031769	-1.401957
218649_x_at	SDCCAG1	serologically defined colon cancer antigen 1	0.024889	-1.400987
216199_s_at	MAP3K4	mitogen-activated protein kinase kinase kinase 4	0.017165	-1.395402
218356_at	FTSJ2	FtsJ homolog 2 (E. coli)	0.035141	-1.386964
201941_at	CPD	carboxypeptidase D	0.013853	-1.385711
202948_at	IL1R1	interleukin 1 receptor, type I	0.004509	-1.385226
201652_at	COPS5	COP9 constitutive photomorphogenic homolog subunit 5 (Arabidopsis)	0.026108	-1.385018
208673_s_at	SFRS3	splicing factor, arginine/serine-rich 3	0.042244	-1.384782
39248_at	AQP3	aquaporin 3 (Gill blood group)	0.041792	-1.383556
204243_at	RLF	rearranged L-myc fusion	0.031186	-1.376697
218147_s_at	GLT8D1	glycosyltransferase 8 domain containing 1	0.035402	-1.371262
213090_s_at	TAF4	TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa	0.015561	-1.370853
213427_at	RPP40	ribonuclease P/MRP 40kDa subunit	0.028525	-1.369923
202345_s_at	FABP5 /// FABP5L2 /// FABP5L7	fatty acid binding protein 5 (psoriasis-associated) /// fatty acid binding protein 5-like 2 /// fatty acid binding protein 5-like 7	0.039966	-1.369556
218432_at	FBXO3	F-box protein 3	0.045895	-1.369138
215716_s_at	ATP2B1	ATPase, Ca ⁺⁺ transporting, plasma membrane 1	0.047198	-1.368021
219603_s_at	ZNF226	zinc finger protein 226	0.013623	-1.367868
221827_at	RBCK1	RanBP-type and C3HC4-type zinc finger containing 1	0.020434	-1.364875
209892_at	FUT4	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)	0.028798	-1.362416
204274_at	EBAG9	estrogen receptor binding site associated, antigen, 9	0.024997	-1.358357
201713_s_at	RANBP2	RAN binding protein 2	0.04397	-1.358135
214047_s_at	MBD4	methyl-CpG binding domain protein 4	0.045598	-1.356211
209337_at	PSIP1	PC4 and SFRS1 interacting protein 1	0.035096	-1.355195
208638_at	PDIA6	protein disulfide isomerase family A, member 6	0.042446	-1.352714
218683_at	PTBP2	polypyrimidine tract binding protein 2	0.037262	-1.352436
201653_at	CNIH	cornichon homolog (Drosophila)	0.040068	-1.352082
218184_at	TULP4	tubby like protein 4	0.033372	-1.351943
209022_at	STAG2	stromal antigen 2	0.037519	-1.34966
201202_at	PCNA	proliferating cell nuclear antigen	0.040799	-1.346506
204831_at	CDK8	cyclin-dependent kinase 8	0.02513	-1.344835
202614_at	SLC30A9	solute carrier family 30 (zinc transporter), member 9	0.035524	-1.341459
209106_at	NCOA1	nuclear receptor coactivator 1	0.011306	-1.339307

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
202466_at	POLS	polymerase (DNA directed) sigma	0.024167	-1.338963
204254_s_at	VDR	vitamin D (1,25- dihydroxyvitamin D3) receptor	0.039956	-1.337843
203067_at	PDHX	pyruvate dehydrogenase complex, component X	0.032178	-1.337193
219515_at	PRDM10	PR domain containing 10	0.014889	-1.336945
210691_s_at	CACYBP	calcyclin binding protein	0.033071	-1.336132
203429_s_at	C1orf9	chromosome 1 open reading frame 9	0.037006	-1.335899
201575_at	SNW1	SNW domain containing 1	0.017517	-1.33401
208895_s_at	DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	0.034925	-1.333492
218450_at	HEBP1	heme binding protein 1	0.042183	-1.332353
201177_s_at	UBA2	ubiquitin-like modifier activating enzyme 2	0.016083	-1.332187
200056_s_at	C1D	nuclear DNA-binding protein	0.049991	-1.331707
209268_at	VPS45	vacuolar protein sorting 45 homolog (S. cerevisiae)	0.036611	-1.331347
203537_at	PRPSAP2	phosphoribosyl pyrophosphate synthetase-associated protein 2	0.028592	-1.329729
200093_s_at	HINT1	histidine triad nucleotide binding protein 1	0.029625	-1.325728
201013_s_at	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	0.032862	-1.324631
200066_at	IK	IK cytokine, down-regulator of HLA II	0.013997	-1.324586
200036_s_at	RPL10A	ribosomal protein L10a	0.026577	-1.32136
203970_s_at	PEX3	peroxisomal biogenesis factor 3	0.014242	-1.321338
218310_at	RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1	0.021204	-1.317011
218219_s_at	LANCL2	LanC lantibiotic synthetase component C-like 2 (bacterial)	0.024572	-1.316727
218909_at	RPS6KC1	ribosomal protein S6 kinase, 52kDa, polypeptide 1	0.039254	-1.313479
201415_at	GSS	glutathione synthetase	0.028867	-1.31316
219767_s_at	CRYZL1	crystallin, zeta (quinone reductase)-like 1	0.034769	-1.312462
216241_s_at	TCEA1	transcription elongation factor A (SII), 1	0.010263	-1.312402
208788_at	ELOVL5	ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	0.049513	-1.311914
202641_at	ARL3	ADP-ribosylation factor-like 3	0.031869	-1.311337
205074_at	SLC22A5	solute carrier family 22 (organic cation/carnitine transporter), member 5	0.036951	-1.31102
203654_s_at	COIL	coilin	0.034826	-1.309647
209921_at	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	0.015009	-1.308239
201023_at	TAF7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa	0.029583	-1.302582
208056_s_at	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3	0.024959	-1.30123
202005_at	ST14	suppression of tumorigenicity 14 (colon carcinoma)	0.029514	-1.298606
202762_at	ROCK2	Rho-associated, coiled-coil containing protein kinase 2	0.036704	-1.29854
203893_at	TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	0.019264	-1.298456
221234_s_at	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	0.024852	-1.29693
202370_s_at	CBFB	core-binding factor, beta subunit	0.02213	-1.296749

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
208944_at	TGFB2	transforming growth factor, beta receptor II (70/80kDa)	0.039353	-1.296521
203521_s_at	ZNF318	zinc finger protein 318	0.043429	-1.295592
212455_at	YTHDC1	YTH domain containing 1	0.008205	-1.294267
221004_s_at	ITM2C	integral membrane protein 2C	0.028419	-1.294095
208882_s_at	UBR5	ubiquitin protein ligase E3 component n-recogin 5	0.013221	-1.294064
205283_at	FKTN	fukutin	0.034579	-1.291916
201433_s_at	PTDSS1	phosphatidylserine synthase 1	0.030646	-1.290661
206976_s_at	HSPH1	heat shock 105kDa/110kDa protein 1	0.043283	-1.290028
201174_s_at	TERF2IP	telomeric repeat binding factor 2, interacting protein	0.029746	-1.289414
201597_at	COX7A2	cytochrome c oxidase subunit VIIa polypeptide 2 (liver)	0.02887	-1.287262
201899_s_at	UBE2A	ubiquitin-conjugating enzyme E2A (RAD6 homolog)	0.019758	-1.285845
200037_s_at	CBX3 /// LOC653972	chromobox homolog 3 (HP1 gamma homolog, Drosophila) /// similar to chromobox homolog 3	0.017238	-1.278523
209139_s_at	PRKRA	protein kinase, interferon-inducible double stranded RNA dependent activator	0.045859	-1.275456
212517_at	ATRN	attractin	0.004936	-1.274959
209358_at	TAF11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa	0.039356	-1.274481
219484_at	HCFC2	host cell factor C2	0.03837	-1.272118
202413_s_at	USP1	ubiquitin specific peptidase 1	0.03943	-1.271898
46167_at	TTC4	tetratricopeptide repeat domain 4	0.039391	-1.270998
219373_at	DPM3	dolichyl-phosphate mannosyltransferase polypeptide 3	0.035293	-1.269808
207543_s_at	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I	0.039065	-1.26803
210053_at	TAF5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa	0.035903	-1.267935
202373_s_at	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)	0.034084	-1.267706
202853_s_at	RYK	RYK receptor-like tyrosine kinase	0.042169	-1.2674
204030_s_at	SCHIP1	schwannomin interacting protein 1	0.024893	-1.266727
213857_s_at	CD47	CD47 molecule	0.027948	-1.265905
205053_at	PRIM1	primase, DNA, polypeptide 1 (49kDa)	0.01934	-1.264546
218360_at	RAB22A	RAB22A, member RAS oncogene family	0.049751	-1.264495
200850_s_at	AHCYL1	S-adenosylhomocysteine hydrolase-like 1	0.021545	-1.261573
204547_at	RAB40B	RAB40B, member RAS oncogene family	0.045565	-1.258723
202197_at	MTMR3	myotubularin related protein 3	0.036186	-1.258388
203732_at	TRIP4	thyroid hormone receptor interactor 4	0.034334	-1.255896
203430_at	HEBP2	heme binding protein 2	0.038936	-1.255165
218455_at	NFS1	NFS1 nitrogen fixation 1 homolog (S. cerevisiae)	0.017491	-1.254492
203306_s_at	SLC35A1	solute carrier family 35 (CMP-sialic acid transporter), member A1	0.033375	-1.252741
202673_at	DPM1	dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit	0.028126	-1.252688
219837_s_at	CYTL1	cytokine-like 1	0.025595	-1.251466
208986_at	TCF12	transcription factor 12	0.039003	-1.248455
212672_at	ATM	ataxia telangiectasia mutated	0.022526	-1.247225
218080_x_at	FAF1	Fas (TNFRSF6) associated factor 1	0.018982	-1.245567

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
218204_s_at	FYCO1	FYVE and coiled-coil domain containing 1	0.006837	-1.244725
220748_s_at	ZNF580	zinc finger protein 580	0.045858	-1.24465
202845_s_at	RALBP1	ralA binding protein 1	0.01874	-1.243061
218680_x_at	HYPK	Huntingtin interacting protein K	0.025208	-1.242675
203343_at	UGDH	UDP-glucose dehydrogenase	0.031842	-1.241347
220408_x_at	FAM48A	family with sequence similarity 48, member A	0.021338	-1.240476
209397_at	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial	0.026725	-1.2397
217751_at	GSTK1	glutathione S-transferase kappa 1	0.036233	-1.23938
201034_at	ADD3	adducin 3 (gamma)	0.033714	-1.2386
201417_at	SOX4	SRY (sex determining region Y)-box 4	0.043242	-1.237423
201281_at	ADRM1	adhesion regulating molecule 1	0.041529	-1.237171
202724_s_at	FOXO1	forkhead box O1	0.020471	-1.23671
212955_s_at	POLR2I	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa	0.040814	-1.236699
200019_s_at	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed	0.036098	-1.236494
209444_at	RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1	0.036959	-1.235527
202484_s_at	MBD2	methyl-CpG binding domain protein 2	0.041227	-1.233862
44111_at	VPS33B	vacuolar protein sorting 33 homolog B (yeast)	0.043269	-1.233416
208066_s_at	GTF2B	general transcription factor IIB	0.026548	-1.233347
210835_s_at	CTBP2	C-terminal binding protein 2	0.030826	-1.23292
219322_s_at	WDR8	WD repeat domain 8	0.037177	-1.232709
212298_at	NRP1	neuropilin 1	0.029361	-1.232633
203860_at	PCCA	propionyl Coenzyme A carboxylase, alpha polypeptide	0.034121	-1.231459
217789_at	SNX6	sorting nexin 6	0.015884	-1.230997
201441_at	COX6B1	cytochrome c oxidase subunit Vib polypeptide 1 (ubiquitous)	0.048248	-1.230827
204295_at	SURF1	surfeit 1	0.017357	-1.229648
202544_at	GMFB	glia maturation factor, beta	0.022975	-1.229466
213213_at	DIDO1	death inducer-obliterator 1	0.025464	-1.228323
220147_s_at	FAM60A	family with sequence similarity 60, member A	0.017731	-1.227565
209574_s_at	C18orf1	chromosome 18 open reading frame 1	0.020001	-1.227178
213738_s_at	ATP5A1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	0.036977	-1.226898
202325_s_at	ATP5J	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F6	0.030414	-1.2259
208030_s_at	ADD1	adducin 1 (alpha)	0.026263	-1.223813
200014_s_at	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)	0.04791	-1.222969
219366_at	AVEN	apoptosis, caspase activation inhibitor	0.012565	-1.221384
204873_at	PEX1	peroxisomal biogenesis factor 1	0.039944	-1.221337
218520_at	TBK1	TANK-binding kinase 1	0.041578	-1.220507
204635_at	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5	0.044014	-1.219739
200817_x_at	RPS10	ribosomal protein S10	0.030916	-1.218449
209326_at	SLC35A2	solute carrier family 35 (UDP-galactose transporter), member A2	0.045984	-1.216338
208970_s_at	UROD	uroporphyrinogen decarboxylase	0.039753	-1.213498
209604_s_at	GATA3	GATA binding protein 3	0.022808	-1.213192
205588_s_at	FGFR1OP	FGFR1 oncogene partner	0.023477	-1.210923
201857_at	ZFR	zinc finger RNA binding protein	0.039163	-1.210698
217759_at	TRIM44	tripartite motif-containing 44	0.042378	-1.210531

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
202313_at	PPP2R2A	protein phosphatase 2 (formerly 2A), regulatory subunit B, alpha isoform	0.029733	-1.20995
33132_at	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	0.022681	-1.205669
211200_s_at	EFCAB2	EF-hand calcium binding domain 2	0.049979	-1.200275
214299_at	TOP3A	topoisomerase (DNA) III alpha	0.027024	-1.200228
206790_s_at	NDUFB1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa	0.037847	-1.198589
202904_s_at	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.02546	-1.198507
218011_at	UBL5	ubiquitin-like 5	0.042788	-1.19792
201012_at	ANXA1	annexin A1	0.042427	-1.197053
202880_s_at	CYTH1	cytohesin 1	0.042202	-1.196347
202857_at	CNPY2	canopy 2 homolog (zebrafish)	0.035451	-1.195337
207625_s_at	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2	0.026741	-1.193367
218667_at	PJA1	praja ring finger 1	0.039015	-1.19054
218101_s_at	NDUFC2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa	0.020683	-1.189372
204199_at	RALGPS1	Ral GEF with PH domain and SH3 binding motif 1	0.038827	-1.18919
205288_at	CDC14A	CDC14 cell division cycle 14 homolog A (S. cerevisiae)	0.023494	-1.188408
204372_s_at	KHSRP	KH-type splicing regulatory protein	0.043258	-1.188083
202330_s_at	UNG	uracil-DNA glycosylase	0.011486	-1.187129
209815_at	PTCH1	patched homolog 1 (Drosophila)	0.019531	-1.184525
200961_at	SEPHS2	selenophosphate synthetase 2	0.042346	-1.184492
201166_s_at	PUM1	pumilio homolog 1 (Drosophila)	0.045115	-1.183231
209033_s_at	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A	0.041035	-1.182423
215983_s_at	UBXN8	UBX domain protein 8	0.040542	-1.178403
202054_s_at	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	0.046328	-1.176729
218009_s_at	PRC1	protein regulator of cytokinesis 1	0.03434	-1.17549
206762_at	KCNA5	potassium voltage-gated channel, shaker-related subfamily, member 5	0.04168	-1.174924
207839_s_at	C9orf127	chromosome 9 open reading frame 127	0.034363	-1.174689
203790_s_at	HRSP12	heat-responsive protein 12	0.03724	-1.174484
204613_at	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	0.04021	-1.170829
200687_s_at	SF3B3	splicing factor 3b, subunit 3, 130kDa	0.036752	-1.169804
210653_s_at	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide	0.030519	-1.168984
218801_at	UGCGL2	UDP-glucose ceramide glucosyltransferase-like 2	0.040829	-1.166616
205264_at	CD3EAP	CD3e molecule, epsilon associated protein	0.041976	-1.160776
206862_at	ZNF254	zinc finger protein 254	0.022663	-1.159853
207513_s_at	ZNF189	zinc finger protein 189	0.039775	-1.158826
208644_at	PARP1	poly (ADP-ribose) polymerase 1	0.024735	-1.155655
209526_s_at	HDGFRP3	hepatoma-derived growth factor, related protein 3	0.04017	-1.155568
209054_s_at	WHSC1	Wolf-Hirschhorn syndrome candidate 1	0.008563	-1.152992
201987_at	MED13	mediator complex subunit 13	0.044572	-1.150726
207417_s_at	ZNF177	zinc finger protein 177	0.044408	-1.147748

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
210607_at	FLT3LG	fms-related tyrosine kinase 3 ligand	0.042431	-1.146478
203987_at	FZD6	frizzled homolog 6 (Drosophila)	0.026018	-1.143728
203608_at	ALDH5A1	aldehyde dehydrogenase 5 family, member A1	0.034354	-1.142833
215930_s_at	CTAGE5	CTAGE family, member 5	0.017546	-1.142379
219553_at	NME7	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)	0.027206	-1.140842
200781_s_at	RPS15A	ribosomal protein S15a	0.029375	-1.140343
203013_at	ECD	ecdysoneless homolog (Drosophila)	0.035751	-1.140263
216960_s_at	ZNF133	zinc finger protein 133	0.03957	-1.13824
204336_s_at	RGS19	regulator of G-protein signaling 19	0.024832	-1.136913
208019_at	ZNF157	zinc finger protein 157	0.020408	-1.133146
220281_at	SLC12A1	solute carrier family 12 (sodium/potassium/chloride transporters), member 1	0.034512	-1.131969
200957_s_at	SSRP1	structure specific recognition protein 1	0.026072	-1.131856
222008_at	COL9A1	collagen, type IX, alpha 1	0.005185	-1.131016
220452_x_at			0.029113	-1.127973
221448_s_at	TEX15	testis expressed 15	0.04714	-1.126578
219683_at	FZD3	frizzled homolog 3 (Drosophila)	0.011505	-1.124254
202246_s_at	CDK4	cyclin-dependent kinase 4	0.039568	-1.123329
201717_at	MRPL49	mitochondrial ribosomal protein L49	0.029781	-1.122517
209847_at	CDH17	cadherin 17, LI cadherin (liver-intestine)	0.010944	-1.122045
201667_at	GJA1	gap junction protein, alpha 1, 43kDa	0.027027	-1.120754
206101_at	ECM2	extracellular matrix protein 2, female organ and adipocyte specific	0.017042	-1.120561
211956_s_at	EIF1	eukaryotic translation initiation factor 1	0.013806	-1.117457
32723_at	CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa	0.048244	-1.116335
215795_at	MYH7B	myosin, heavy chain 7B, cardiac muscle, beta	0.025048	-1.110247
207152_at	NTRK2	neurotrophic tyrosine kinase, receptor, type 2	0.031142	-1.110004
32259_at	EZH1	enhancer of zeste homolog 1 (Drosophila)	0.035203	-1.107839
219535_at	HUNK	hormonally up-regulated Neu-associated kinase	0.045855	-1.105698
205007_s_at	CIB2	calcium and integrin binding family member 2	0.041791	-1.103658
207178_s_at	FRK	fyn-related kinase	0.031754	-1.101682
203744_at	HMGB3	high-mobility group box 3	0.048128	-1.100397
205990_s_at	WNT5A	wingless-type MMTV integration site family, member 5A	0.044469	-1.097267
208045_at			0.019022	-1.093977
206271_at	TLR3	toll-like receptor 3	0.032631	-1.093379
201709_s_at	NIPSNAP1	nipsnap homolog 1 (C. elegans)	0.031491	-1.0932
201427_s_at	SEPP1	selenoprotein P, plasma, 1	0.022528	-1.091674
222259_s_at	SPO11	SPO11 meiotic protein covalently bound to DSB homolog (S. cerevisiae)	0.023662	-1.089362
203477_at	COL15A1	collagen, type XV, alpha 1	0.049327	-1.085754
217829_s_at	USP39	ubiquitin specific peptidase 39	0.04967	-1.084938
218911_at	YEATS4	YEATS domain containing 4	0.031959	-1.083322
206007_at	PRG4	proteoglycan 4	0.039033	-1.082166
206994_at	CST4	cystatin S	0.028543	-1.081244
220190_s_at	GTF2A1L /// STON1 /// STON1-GTF2A1L	general transcription factor IIA, 1-like /// stonin 1 /// STON1-GTF2A1L readthrough transcript	0.042729	-1.076484

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
214705_at	INADL	InaD-like (Drosophila)	0.023365	-1.0753
205005_s_at	NMT2	N-myristoyltransferase 2	0.019702	-1.0713
216917_s_at	SYCP1	synaptonemal complex protein 1	0.011372	-1.070969
53076_at	B4GALT7	xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I)	0.014847	-1.069241
207325_x_at	MAGEA1	melanoma antigen family A, 1 (directs expression of antigen MZ2-E)	0.030692	-1.068871
217004_s_at	MCF2	MCF.2 cell line derived transforming sequence	0.021921	-1.064231
211161_s_at	COL3A1	collagen, type III, alpha 1	0.044359	-1.044757
206898_at	CDH19	cadherin 19, type 2	0.026567	-1.042195
214038_at	CCL8	chemokine (C-C motif) ligand 8	0.049752	1.063405
207397_s_at	HOXD13	homeobox D13	0.036136	1.072331
207619_at	HCRTR1	hypocretin (orexin) receptor 1	0.018332	1.075286
221372_s_at	P2RX2	purinergic receptor P2X, ligand-gated ion channel, 2	0.045465	1.076
221296_at	TECTA	tectorin alpha	0.04846	1.081078
206285_at	NPHP1	nephronophthisis 1 (juvenile)	0.022314	1.084587
211298_s_at	ALB	albumin	0.031171	1.085084
209904_at	TNNC1	troponin C type 1 (slow)	0.036817	1.087302
207019_s_at	AKAP4	A kinase (PRKA) anchor protein 4	0.02575	1.089152
206647_at	HBZ	hemoglobin, zeta	0.042202	1.089321
206523_at	CYTH3	cytohesin 3	0.036346	1.089506
207919_at	ART1	ADP-ribosyltransferase 1	0.01173	1.090309
220773_s_at	GPHN	gephyrin	0.043221	1.094641
220782_x_at	KLK12	kallikrein-related peptidase 12	0.038495	1.095164
219686_at	STK32B	serine/threonine kinase 32B	0.038808	1.097166
205971_s_at	CTRB1 /// CTRB2	chymotrypsinogen B1 /// chymotrypsinogen B2	0.040541	1.097404
208075_s_at	CCL7	chemokine (C-C motif) ligand 7	0.024426	1.098935
207503_at	TCP10	t-complex 10 homolog (mouse)	0.021405	1.099725
220208_at	ADAMTS13	ADAM metallopeptidase with thrombospondin type 1 motif, 13	0.033462	1.100766
208220_x_at	AMELY	amelogenin, Y-linked	0.027702	1.102331
207910_at	SCGB1D1	secretoglobin, family 1D, member 1	0.014222	1.103142
220818_s_at	TRPC4	transient receptor potential cation channel, subfamily C, member 4	0.028895	1.107604
204381_at	LRP3	low density lipoprotein receptor-related protein 3	0.027774	1.108419
220888_s_at	CASS4	Cas scaffolding protein family member 4	0.042253	1.109217
214516_at	HIST1H4A /// HIST1H4B /// HIST1H4C /// HIST1H4D /// HIST1H4E /// HIST1H4F /// HIST1H4H /// HIST1H4I /// HIST1H4J /// HIST1H4K /// HIST1H4L /// HIST2H4A /// HIST2H4B /// HIST4H4	histone cluster 1, H4a /// histone cluster 1, H4b /// histone cluster 1, H4c /// histone cluster 1, H4d /// histone cluster 1, H4e /// histone cluster 1, H4f /// histone cluster 1, H4h /// histone cluster 1, H4i /// histone cluster 1, H4j /// histone cluster 1, H4k /// histone cluster 1, H4l /// histone cluster 2, H4a /// histone cluster 2, H4b /// histone cluster 4, H4	0.023353	1.111469

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
209643_s_at	PLD2	phospholipase D2	0.04595	1.111781
40837_at	TLE2	transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila)	0.049638	1.113061
208497_x_at	NEUROG1	neurogenin 1	0.036231	1.113104
213112_s_at	SQSTM1	sequestosome 1	0.04895	1.114429
206518_s_at	RGS9	regulator of G-protein signaling 9	0.031986	1.114777
207059_at	PAX9	paired box 9	0.011629	1.115102
218960_at	TMPRSS4	transmembrane protease, serine 4	0.042494	1.115833
205374_at	SLN	sarcolipin	0.034692	1.11727
209591_s_at	BMP7	bone morphogenetic protein 7	0.045896	1.117341
635_s_at	PPP2R5B	protein phosphatase 2, regulatory subunit B', beta isoform	0.045241	1.117915
221308_at	FRS2	fibroblast growth factor receptor substrate 2	0.015694	1.11999
41037_at	TEAD4	TEA domain family member 4	0.025034	1.120777
220541_at	MMP26	matrix metalloproteinase 26	0.044624	1.120977
207027_at	HGFAC	HGF activator	0.036808	1.121328
221359_at	GNDF	glial cell derived neurotrophic factor	0.015212	1.121815
221376_at	FGF17	fibroblast growth factor 17	0.033373	1.121845
207715_at	CRYGB	crystallin, gamma B	0.048811	1.122009
221295_at	CIDEA	cell death-inducing DFFA-like effector a	0.017651	1.122015
207962_at	CAPN11	calpain 11	0.046434	1.122506
211249_at	GPR68	G protein-coupled receptor 68	0.019225	1.122827
214377_s_at	CTRL	chymotrypsin-like	0.044571	1.123133
208177_at	SLC34A1	solute carrier family 34 (sodium phosphate), member 1	0.047227	1.123756
209195_s_at	ADCY6	adenylate cyclase 6	0.035645	1.12389
211838_x_at	PCDHA5	protocadherin alpha 5	0.032864	1.124481
207692_s_at	ACAN	aggrecan	0.035931	1.12521
204810_s_at	CKM	creatine kinase, muscle	0.041371	1.125818
210632_s_at	SGCA	sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)	0.035552	1.126387
210728_s_at	CALCA	calcitonin-related polypeptide alpha	0.020043	1.12828
209035_at	MDK	midkine (neurite growth-promoting factor 2)	0.037765	1.128632
220962_s_at	PADI1	peptidyl arginine deiminase, type I	0.038701	1.129338
207402_at	ZNF132	zinc finger protein 132	0.017982	1.129526
218122_s_at	SEN2	SUMO1/sentrin/SMT3 specific peptidase 2	0.019478	1.129674
205911_at	PTH1R	parathyroid hormone 1 receptor	0.030789	1.130249
206174_s_at	PPP6C	protein phosphatase 6, catalytic subunit	0.028141	1.132866
205985_x_at	CLCNKB	chloride channel Kb	0.030029	1.133323
214649_s_at	MTMR2	myotubularin related protein 2	0.033314	1.134433
209725_at	UTP20	UTP20, small subunit (SSU) processome component, homolog (yeast)	0.031145	1.134852
215399_s_at	OS9	amplified in osteosarcoma	0.02995	1.135117
203457_at	STX7	syntaxin 7	0.042502	1.135675
209108_at	TSPAN6	tetraspanin 6	0.003866	1.136923
205646_s_at	PAX6	paired box 6	0.014328	1.13762
204136_at	COL7A1	collagen, type VII, alpha 1	0.022828	1.140969

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
215410_at	LOC100132832 /// LOC441259 /// LOC730324 /// PMS2L1 /// PMS2L2 /// PMS2L5	postmeiotic segregation increased 2-like 5-like /// PMS2 postmeiotic segregation increased 2 (S. cerevisiae)-like /// similar to postmeiotic segregation increased 2-like 2 /// postmeiotic segregation increased 2-like 1 pseudogene /// postmeiotic segregation increased 2-like 2 pseudogene /// postmeiotic segregation increased 2-like 5	0.036566	1.142355
207670_at	KRT85	keratin 85	0.035175	1.142559
211429_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	0.012	1.14575
215273_s_at	TADA3L	transcriptional adaptor 3 (NGG1 homolog, yeast)-like	0.030563	1.146825
210130_s_at	TM7SF2	transmembrane 7 superfamily member 2	0.045806	1.14693
207379_at	EDIL3	EGF-like repeats and discoidin I-like domains 3	0.028609	1.147466
208005_at	NTN1	netrin 1	0.031833	1.147876
204073_s_at	C11orf9	chromosome 11 open reading frame 9	0.023667	1.149112
215916_at	CHRNE	cholinergic receptor, nicotinic, epsilon	0.030671	1.149137
221073_s_at	NOD1	nucleotide-binding oligomerization domain containing 1	0.010486	1.149376
219516_at	TRPV4	transient receptor potential cation channel, subfamily V, member 4	0.036204	1.15122
207771_at	SLC5A2	solute carrier family 5 (sodium/glucose cotransporter), member 2	0.048354	1.151382
207913_at	CYP2F1	cytochrome P450, family 2, subfamily F, polypeptide 1	0.037584	1.151943
204561_x_at	APOC2 /// APOC4	apolipoprotein C-II /// apolipoprotein C-IV	0.047664	1.153491
212223_at	IDS	iduronate 2-sulfatase	0.049936	1.153961
208333_at	LHX5	LIM homeobox 5	0.009587	1.154097
206406_at	SMCP	sperm mitochondria-associated cysteine-rich protein	0.018975	1.154423
205779_at	RAMP2	receptor (G protein-coupled) activity modifying protein 2	0.03658	1.15731
207609_s_at	CYP1A2	cytochrome P450, family 1, subfamily A, polypeptide 2	0.049614	1.157807
208207_at			0.012177	1.157828
202045_s_at	GRLF1	glucocorticoid receptor DNA binding factor 1	0.043188	1.158359
221340_at	CDX4	caudal type homeobox 4	0.036524	1.15884
214556_at	SSTR4	somatostatin receptor 4	0.020895	1.159477
200663_at	CD63	CD63 molecule	0.033054	1.159631
208541_x_at	TFAM	transcription factor A, mitochondrial	0.043624	1.159772
200896_x_at	HDGF	hepatoma-derived growth factor (high-mobility group protein 1-like)	0.025865	1.160862
205870_at	BDKRB2	bradykinin receptor B2	0.036511	1.162429
205752_s_at	GSTM5	glutathione S-transferase mu 5	0.031722	1.16248
210132_at	EFNA3	ephrin-A3	0.035863	1.162714
220043_s_at	MFI2	antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5	0.031663	1.162836
206970_at	CNTN2	contactin 2 (axonal)	0.03048	1.166639
219323_s_at	IL18BP	interleukin 18 binding protein	0.016762	1.167043
202564_x_at	ARL2 /// SNX15	ADP-ribosylation factor-like 2 /// sorting nexin 15	0.040433	1.167147
202831_at	GPX2	glutathione peroxidase 2 (gastrointestinal)	0.042536	1.167153

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
220965_s_at	RSHL1	radial spokehead-like 1	0.01254	1.167371
221579_s_at	NUDT3	nudix (nucleoside diphosphate linked moiety X)-type motif 3	0.027498	1.169763
207258_at	DSCR4	Down syndrome critical region gene 4	0.046606	1.170259
221362_at	HTR5A	5-hydroxytryptamine (serotonin) receptor 5A	0.042303	1.170316
206955_at	AQP7	aquaporin 7	0.013228	1.17094
206387_at	CDX2	caudal type homeobox 2	0.047179	1.174173
35179_at	B3GAT3	beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)	0.020691	1.174731
214549_x_at	SPRR1A	small proline-rich protein 1A	0.037403	1.175338
205868_s_at	PTPN11	protein tyrosine phosphatase, non-receptor type 11	0.020259	1.175408
207863_at	ADPRH	ADP-ribosylarginine hydrolase	0.026012	1.175547
209764_at	MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	0.041638	1.175857
222020_s_at	HNT	neurotrimin	0.044732	1.175902
204232_at	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	0.03338	1.176735
205575_at	C1QL1	complement component 1, q subcomponent-like 1	0.037573	1.177997
205354_at	GAMT	guanidinoacetate N-methyltransferase	0.045054	1.178507
210654_at	TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain	0.007705	1.178679
207441_at	SMR3B	submaxillary gland androgen regulated protein 3B	0.031023	1.178759
220414_at	CALML5	calmodulin-like 5	0.036612	1.187684
206705_at	TULP1	tubby like protein 1	0.014762	1.189887
207144_s_at	CITED1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1	0.029567	1.192954
205813_s_at	MAT1A	methionine adenosyltransferase I, alpha	0.022903	1.193042
206397_x_at	GDF1 /// LASS1	growth differentiation factor 1 /// LAG1 homolog, ceramide synthase 1	0.042704	1.1934
219125_s_at	RAG1AP1	recombination activating gene 1 activating protein 1	0.03443	1.198134
212581_x_at	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	0.039411	1.198163
209918_at	GGTLC2	gamma-glutamyltransferase light chain 2	0.036623	1.200123
214209_s_at	ABCB9	ATP-binding cassette, sub-family B (MDR/TAP), member 9	0.021415	1.204393
203788_s_at	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	0.020097	1.204718
207555_s_at	TBXA2R	thromboxane A2 receptor	0.021479	1.204989
203882_at	IRF9	interferon regulatory factor 9	0.048643	1.206136
207143_at	CDK6	cyclin-dependent kinase 6	0.047296	1.207981
208466_at	RAB3D	RAB3D, member RAS oncogene family	0.034465	1.20917
202448_s_at	ZER1	zer-1 homolog (C. elegans)	0.010279	1.212548
221300_at	C15orf2	chromosome 15 open reading frame 2	0.02736	1.214463
207645_s_at	CHD1L	chromodomain helicase DNA binding protein 1-like	0.00678	1.21614
208569_at	HIST1H2AB	histone cluster 1, H2ab	0.009586	1.222348
221083_at	KCNQ4	potassium voltage-gated channel, KQT-like subfamily, member 4	0.022958	1.228388

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
207216_at	TNFSF8	tumor necrosis factor (ligand) superfamily, member 8	0.032835	1.230853
213798_s_at	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	0.017384	1.236482
219591_at	CEND1	cell cycle exit and neuronal differentiation 1	0.040038	1.237269
201089_at	ATP6V1B2	ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2	0.039132	1.238865
202692_s_at	UBTF	upstream binding transcription factor, RNA polymerase I	0.040356	1.24604
203226_s_at	TSPAN31	tetraspanin 31	0.010442	1.248666
207752_x_at	PRB1 /// PRB2	proline-rich protein BstNI subfamily 1 /// proline-rich protein BstNI subfamily 2	0.026525	1.252911
210401_at	P2RX1	purinergic receptor P2X, ligand-gated ion channel, 1	0.022125	1.253818
205708_s_at	TRPM2	transient receptor potential cation channel, subfamily M, member 2	0.021961	1.265333
220964_s_at	RAB1B	RAB1B, member RAS oncogene family	0.030617	1.269514
205142_x_at	ABCD1	ATP-binding cassette, sub-family D (ALD), member 1	0.038709	1.275529
209522_s_at	CRAT	carnitine acetyltransferase	0.04914	1.277148
208829_at	TAPBP	TAP binding protein (tapasin)	0.044077	1.279549
214441_at	STX6	syntaxin 6	0.005143	1.286428
205746_s_at	ADAM17	ADAM metalloproteinase domain 17	0.041765	1.287949
206920_s_at	GLE1	GLE1 RNA export mediator homolog (yeast)	0.03878	1.291508
207053_at	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1	0.012014	1.304211
207914_x_at	EVX1	even-skipped homeobox 1	0.02437	1.307185
202947_s_at	GYPC	glycophorin C (Gerbich blood group)	0.041215	1.310092
209321_s_at	ADCY3	adenylate cyclase 3	0.036616	1.314719
215905_s_at	SNRNP40	small nuclear ribonucleoprotein 40kDa (U5)	0.048031	1.317842
204632_at	RPS6KA4	ribosomal protein S6 kinase, 90kDa, polypeptide 4	0.007493	1.318511
218318_s_at	NLK	nemo-like kinase	0.003475	1.326332
205536_at	LOC100128155 /// VAV2	hypothetical protein LOC100128155 /// vav 2 guanine nucleotide exchange factor	0.023689	1.330018
203136_at	RABAC1	Rab acceptor 1 (prenylated)	0.040542	1.345915
217930_s_at	TOLLIP	toll interacting protein	0.03637	1.346411
207907_at	TNFSF14	tumor necrosis factor (ligand) superfamily, member 14	0.011147	1.357435
200065_s_at	ARF1	ADP-ribosylation factor 1	0.024567	1.365817
219723_x_at	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	0.046382	1.372866
202008_s_at	NID1	nidogen 1	0.035396	1.378944
209162_s_at	PRPF4	PRP4 pre-mRNA processing factor 4 homolog (yeast)	0.021716	1.386763
221041_s_at	SLC17A5	solute carrier family 17 (anion/sugar transporter), member 5	0.045811	1.388947
202122_s_at	M6PRBP1	mannose-6-phosphate receptor binding protein 1	0.034426	1.406621
217960_s_at	TOMM22	translocase of outer mitochondrial membrane 22 homolog (yeast)	0.037336	1.418288
218832_x_at	ARRB1	arrestin, beta 1	0.027418	1.424349
201743_at	CD14	CD14 molecule	0.036359	1.438972

Probe Set ID	Gene Symbol	Gene Title	p-value	FC ¹
201020_at	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	0.028844	1.442865
221269_s_at	SH3BGR13	SH3 domain binding glutamic acid-rich protein like 3	0.025487	1.448642
201118_at	PGD	phosphogluconate dehydrogenase	0.021895	1.479888
216015_s_at	NLRP3	NLR family, pyrin domain containing 3	0.039499	1.52269
221499_s_at	STX16	syntaxin 16	0.048748	1.520886
202902_s_at	CTSS	cathepsin S	0.023069	1.518351
218748_s_at	EXOC5	exocyst complex component 5	0.046011	1.551188
201862_s_at	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1	0.049111	1.607763
208885_at	LCP1	lymphocyte cytosolic protein 1 (L-plastin)	0.02297	1.50206
200745_s_at	GNB1	guanine nucleotide binding protein (G protein), beta polypeptide 1	0.032746	1.87079
208852_s_at	CANX	calnexin	0.042684	1.550792
202545_at	PRKCD	protein kinase C, delta	0.037683	1.784959
203555_at	PTPN18	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	0.013806	1.847856
204505_s_at	EPB49	erythrocyte membrane protein band 4.9 (dematin)	0.047657	1.660384
208579_x_at	H2BFS	H2B histone family, member S	0.026278	2.002781
209846_s_at	BTN3A2	butyrophilin, subfamily 3, member A2	0.011869	1.996921
AFFX-HUMGAPDH/M33197_5_at	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	0.032226	2.485473
201058_s_at	MYL9	myosin, light chain 9, regulatory	0.048564	2.876121
AFFX-HSAC07/X00351_5_at	ACTB	actin, beta	0.010553	3.461858

¹ FC - fold change