

**Supplementary Table 2: Primary untreated (Prim/UT) KIT+ ( n = 8 ) vs. Metastatic resistant (Met/Res) KIT+ ( n = 4). Significant genes with a False Discovery Rate of < 0.05 and a fold change > 2.0**

Gene Symbol	Gene Title	Adj. p-value	Fold change ( Prim/UT to Met/Res)	Affymetrix ID
HEPH	hephaestin	1.8E-03	-60.6	203903_s_at
GPR88	G protein-coupled receptor 88	1.8E-02	-56.0	220313_at
SPON1	spondin 1, extracellular matrix protein	4.5E-02	-48.2	213993_at
SATB1	SATB homeobox 1	3.6E-03	-41.1	203408_s_at
ISL1	ISL LIM homeobox 1	2.7E-02	-39.9	206104_at
NELL1	NEL-like 1 (chicken)	1.2E-02	-39.8	206089_at
RAI2	retinoic acid induced 2	1.3E-02	-30.8	219440_at
TMEM47	transmembrane protein 47	4.9E-02	-29.0	209656_s_at
DIRAS3	DIRAS family, GTP-binding RAS-like 3	3.1E-02	-26.8	215506_s_at
SCRG1	stimulator of chondrogenesis 1	8.3E-03	-24.2	205475_at
SLC24A3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	1.6E-02	-23.7	57588_at
DIO2	deiodinase, iodothyronine, type II	1.0E-02	-22.7	203699_s_at
SLC24A3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	1.5E-02	-21.5	219090_at
GULP1	GULP, engulfment adaptor PTB domain containing 1	5.2E-03	-20.5	204237_at
GULP1	GULP, engulfment adaptor PTB domain containing 1	4.4E-03	-19.9	204235_s_at
DIO2	deiodinase, iodothyronine, type II	1.0E-02	-19.7	203700_s_at
<b>DKK4</b>	<b>dickkopf homolog 4 (<i>Xenopus laevis</i>)</b>	<b>4.7E-03</b>	<b>-18.8</b>	<b>206619_at</b>
LPHN3	latrophilin 3	3.1E-02	-18.6	209866_s_at
TMEM47	transmembrane protein 47	3.7E-02	-17.6	209655_s_at
ALCAM	activated leukocyte cell adhesion molecule	4.9E-02	-16.0	201952_at
AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	3.1E-02	-15.3	212607_at
-	-	6.2E-03	-14.1	214078_at
TRPC3	transient receptor potential cation channel, subfamily C, member 3	2.2E-02	-13.6	206425_s_at
AHNAK2	AHNAK nucleoprotein 2	4.7E-02	-12.8	212992_at
PAK3	p21 protein (Cdc42/Rac)-activated kinase 3	3.6E-03	-12.5	214607_at
REEP1	receptor accessory protein 1	1.8E-02	-12.3	204364_s_at
LPHN3	latrophilin 3	2.1E-02	-12.1	209867_s_at
TRPC3	transient receptor potential cation channel, subfamily C, member 3	2.4E-02	-12.0	210814_at
IFI44L	interferon-induced protein 44-like	4.5E-02	-12.0	204439_at

KCND2	potassium voltage-gated channel, Shal-related subfamily, member 2	8.3E-03	-11.4	207103_at
PCSK5	proprotein convertase subtilisin/kexin type 5	5.2E-03	-11.4	205559_s_at
LTBP1	latent transforming growth factor beta binding protein 1	1.9E-02	-11.2	202729_s_at
TNN	tenascin N	3.7E-02	-10.5	215271_at
HTRA1	HtrA serine peptidase 1	2.9E-02	-10.2	201185_at
LTBP1	latent transforming growth factor beta binding protein 1	1.3E-02	-9.9	202728_s_at
BAI3	brain-specific angiogenesis inhibitor 3	3.6E-03	-9.8	205638_at
SYT11	synaptotagmin XI	3.3E-02	-9.5	209198_s_at
REEP1	receptor accessory protein 1	1.8E-02	-9.5	204365_s_at
JAM2	junctional adhesion molecule 2	2.3E-02	-8.7	219213_at
TACC2	transforming, acidic coiled-coil containing protein 2	4.0E-02	-8.2	202289_s_at
SYT11	synaptotagmin XI	4.3E-02	-8.2	209197_at
GULP1	GULP, engulfment adaptor PTB domain containing 1	1.2E-02	-8.2	215913_s_at
ATP10A	ATPase, class V, type 10A	1.7E-02	-8.2	214255_at
CPE	carboxypeptidase E	1.3E-02	-8.1	201116_s_at
NAV3	neuron navigator 3	2.9E-02	-8.0	204823_at
MCF2	MCF.2 cell line derived transforming sequence	1.2E-02	-8.0	208017_s_at
PLXNA2	plexin A2	1.5E-02	-7.4	207290_at
ATP2A3	ATPase, Ca <sup>++</sup> transporting, ubiquitous	2.0E-02	-7.3	207522_s_at
SDCCAG8	serologically defined colon cancer antigen 8	4.7E-02	-7.2	212609_s_at
KHDRBS3	KH domain containing, RNA binding, signal transduction associated 3	6.0E-03	-7.1	209781_s_at
CHGB	chromogranin B (secretogranin 1)	4.0E-02	-7.1	204260_at
ATP2A3	ATPase, Ca <sup>++</sup> transporting, ubiquitous	2.1E-02	-6.8	213036_x_at
CALY	calcyon neuron-specific vesicular protein	1.3E-02	-6.8	219896_at
ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	2.1E-02	-6.7	204161_s_at
NR3C2	nuclear receptor subfamily 3, group C, member 2	2.9E-02	-6.6	205259_at
FAM198B	family with sequence similarity 198, member B	1.3E-02	-6.3	219872_at
NAP1L3	nucleosome assembly protein 1-like 3	3.9E-02	-6.2	204749_at
CPE	carboxypeptidase E	3.5E-02	-6.2	201117_s_at
ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	2.9E-02	-6.1	204160_s_at

FAM105A	family with sequence similarity 105, member A	1.6E-02	-6.1	219694_at
MFAP3L	microfibrillar-associated protein 3-like	1.8E-02	-6.1	205442_at
TLR3	toll-like receptor 3	2.7E-02	-5.8	206271_at
PLXNA2	plexin A2	1.5E-02	-5.8	213030_s_at
MLLT3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	2.2E-02	-5.5	204917_s_at
NAP1L2	nucleosome assembly protein 1-like 2	2.0E-02	-5.3	219368_at
PCSK5	proprotein convertase subtilisin/kexin type 5	1.5E-02	-5.1	213652_at
PCSK5	proprotein convertase subtilisin/kexin type 5	1.7E-02	-5.1	205560_at
MLLT3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	4.1E-02	-4.9	204918_s_at
CADPS2	Ca <sup>++</sup> -dependent secretion activator 2	3.1E-02	-4.9	219572_at
LRRC16A	leucine rich repeat containing 16A	4.0E-02	-4.8	219573_at
PION	pigeon homolog (Drosophila)	1.7E-02	-4.7	222150_s_at
CSPG4	chondroitin sulfate proteoglycan 4	2.8E-02	-4.7	204736_s_at
N4BP2L2	NEDD4 binding protein 2-like 2	2.6E-02	-4.6	214748_at
DOCK3	dedicator of cytokinesis 3	4.2E-02	-4.5	213482_at
HSPA12A	heat shock 70kDa protein 12A	2.2E-02	-4.5	214434_at
IGFBP4	insulin-like growth factor binding protein 4	2.2E-02	-4.5	201508_at
LPAR4	lysophosphatidic acid receptor 4	2.4E-02	-4.4	206960_at
TBC1D8B	TBC1 domain family, member 8B (with GRAM domain)	6.0E-03	-4.4	219771_at
PION	pigeon homolog (Drosophila)	1.8E-02	-4.3	213142_x_at
MCF2	MCF.2 cell line derived transforming sequence	1.3E-02	-4.3	217004_s_at
NR2F2	nuclear receptor subfamily 2, group F, member 2	4.9E-02	-4.3	209121_x_at
SYNE1	spectrin repeat containing, nuclear envelope 1	3.6E-03	-4.2	209447_at
MYO1D	myosin ID	2.7E-02	-4.2	212338_at
-	-	3.5E-02	-4.2	211568_at
PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	9.1E-03	-4.1	218292_s_at
ANK2	ankyrin 2, neuronal	1.7E-02	-4.0	202920_at
TLE2	transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila)	4.4E-02	-4.0	40837_at
ADAMTSL2	ADAMTS-like 2	4.7E-03	-4.0	206629_at
PLEKHA5	pleckstrin homology domain containing, family A member 5	2.7E-02	-4.0	220952_s_at
GSN	gelsolin (amyloidosis, Finnish type)	3.1E-02	-4.0	200696_s_at

VWA5A	von Willebrand factor A domain containing 5A	7.1E-03	-3.9	205011_at
CD82	CD82 molecule	2.1E-02	-3.9	203904_x_at
HOXA2	homeobox A2	2.7E-02	-3.9	214457_at
ATP2A3	ATPase, Ca <sup>++</sup> transporting, ubiquitous	2.0E-02	-3.8	213042_s_at
CTNNA3	catenin (cadherin-associated protein), alpha 3	2.8E-02	-3.8	220815_at
CDR2L	cerebellar degeneration-related protein 2-like	2.1E-02	-3.8	213230_at
IFIH1	interferon induced with helicase C domain 1	6.2E-03	-3.8	219209_at
PROS1	protein S (alpha)	2.1E-02	-3.7	207808_s_at
DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	1.9E-02	-3.7	218943_s_at
LRRK1	leucine-rich repeat kinase 1	1.7E-02	-3.7	219441_s_at
C1S	complement component 1, s subcomponent	1.5E-02	-3.7	208747_s_at
GBP2	guanylate binding protein 2, interferon-inducible	1.9E-02	-3.6	202748_at
C1R	complement component 1, r subcomponent	1.5E-02	-3.6	212067_s_at
TNS1	tensin 1	9.0E-03	-3.6	221748_s_at
CFHR2	complement factor H-related 2	1.3E-02	-3.6	206910_x_at
CBX7	chromobox homolog 7	1.1E-02	-3.5	212914_at
AKAP13	A kinase (PRKA) anchor protein 13	2.1E-02	-3.5	208325_s_at
RABGAP1L	RAB GTPase activating protein 1-like	4.9E-02	-3.5	213982_s_at
GFPT2	glutamine-fructose-6-phosphate transaminase 2	4.3E-02	-3.5	205100_at
ZNF280D	zinc finger protein 280D	1.5E-02	-3.4	221213_s_at
PKD1	polycystic kidney disease 1 (autosomal dominant)	2.1E-02	-3.4	202328_s_at
GSTM5	glutathione S-transferase mu 5	4.4E-02	-3.4	205752_s_at
NCS1	neuronal calcium sensor 1	3.6E-03	-3.3	218266_s_at
FXVD6	FXVD domain containing ion transport regulator 6	2.1E-02	-3.3	217897_at
TPBG	trophoblast glycoprotein	1.1E-02	-3.3	203476_at
CCPG1	cell cycle progression 1	1.3E-02	-3.3	222156_x_at
CCPG1	cell cycle progression 1	1.8E-02	-3.3	214151_s_at
HIVP2	human immunodeficiency virus type I enhancer binding protein 2	3.4E-02	-3.2	212641_at
KIAA1109	KIAA1109	1.2E-02	-3.2	212779_at
NYNRIN	NYN domain and retroviral integrase containing	4.7E-02	-3.2	220911_s_at
APOL1	apolipoprotein L, 1	4.0E-02	-3.1	209546_s_at
CCPG1	cell cycle progression 1	2.1E-02	-3.1	214152_at
AKAP13	A kinase (PRKA) anchor protein 13	4.1E-02	-3.1	221718_s_at

PAM	peptidylglycine alpha-amidating monooxygenase	2.7E-02	-3.1	214620_x_at
PAM	peptidylglycine alpha-amidating monooxygenase	2.1E-02	-3.0	202336_s_at
TESK2	testis-specific kinase 2	3.1E-02	-3.0	205486_at
AKAP13	A kinase (PRKA) anchor protein 13	3.5E-02	-3.0	222024_s_at
CPT1A	carnitine palmitoyltransferase 1A (liver)	1.8E-02	-3.0	203633_at
CCPG1	cell cycle progression 1	1.6E-02	-3.0	221511_x_at
HIVEP2	human immunodeficiency virus type I enhancer binding protein 2	3.3E-02	-3.0	212642_s_at
CDADC1	cytidine and dCMP deaminase domain containing 1	1.3E-02	-3.0	221015_s_at
TRIM22	tripartite motif-containing 22	4.9E-02	-2.9	213293_s_at
GNB5	guanine nucleotide binding protein (G protein), beta 5	3.3E-02	-2.9	204000_at
PBXIP1	pre-B-cell leukemia homeobox interacting protein 1	4.9E-03	-2.9	214177_s_at
PAM	peptidylglycine alpha-amidating monooxygenase	2.2E-02	-2.8	212958_x_at
CPEB3	cytoplasmic polyadenylation element binding protein 3	3.8E-02	-2.8	205773_at
SYNM	synemin, intermediate filament protein	3.8E-02	-2.8	212730_at
FGF2	fibroblast growth factor 2 (basic)	4.1E-02	-2.8	204421_s_at
LPHN1	latrophilin 1	1.5E-02	-2.7	47560_at
ARL6IP5	ADP-ribosylation-like factor 6 interacting protein 5	3.9E-03	-2.7	200761_s_at
TNS1	tensin 1	4.4E-03	-2.7	218864_at
-	-	2.5E-02	-2.7	222111_at
TNS1	tensin 1	1.0E-02	-2.7	221747_at
JAM3	junctional adhesion molecule 3	3.9E-02	-2.7	212813_at
PBXIP1	pre-B-cell leukemia homeobox interacting protein 1	7.2E-03	-2.7	212259_s_at
SIK3	SIK family kinase 3	1.0E-02	-2.6	204157_s_at
ZBTB38	zinc finger and BTB domain containing 38	2.1E-02	-2.6	219221_at
UNC13B	unc-13 homolog B (C. elegans)	3.7E-02	-2.6	202893_at
VAMP1	vesicle-associated membrane protein 1 (synaptobrevin 1)	4.7E-02	-2.6	213326_at
C2orf67	chromosome 2 open reading frame 67	2.9E-02	-2.6	215046_at
THRA	thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)	1.3E-02	-2.6	35846_at
CALM1	calmodulin 1 (phosphorylase kinase, delta)	3.1E-02	-2.6	211985_s_at
ZMIZ1	zinc finger, MIZ-type containing 1	1.6E-02	-2.6	212124_at

FAM63B	family with sequence similarity 63, member B	1.5E-02	-2.5	214691_x_at
ERMAP	erythroblast membrane-associated protein (Scianna blood group)	2.0E-02	-2.5	219905_at
CALM1	calmodulin 1 (phosphorylase kinase, delta)	3.3E-02	-2.5	211984_at
THRA	thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)	4.7E-03	-2.5	204100_at
LMBRD1	LMBR1 domain containing 1	2.8E-02	-2.5	218191_s_at
C9orf9	chromosome 9 open reading frame 9	1.5E-02	-2.5	220050_at
BDH2	3-hydroxybutyrate dehydrogenase, type 2	1.7E-02	-2.5	218285_s_at
PBXIP1	pre-B-cell leukemia homeobox interacting protein 1	8.3E-03	-2.5	207838_x_at
GABARAPL1	GABA(A) receptor-associated protein like 1	2.4E-02	-2.5	208869_s_at
TTBK2	tau tubulin kinase 2	1.3E-02	-2.5	213922_at
ARL6IP5	ADP-ribosylation-like factor 6 interacting protein 5	4.7E-03	-2.4	200760_s_at
JAK2	Janus kinase 2	1.3E-02	-2.4	205842_s_at
GABARAPL1	GABA(A) receptor-associated protein like 1	1.0E-02	-2.4	211458_s_at
HEXIM1	hexamethylene bis-acetamide inducible 1	1.5E-02	-2.4	202815_s_at
ARHGEF9	Cdc42 guanine nucleotide exchange factor (GEF) 9	2.6E-02	-2.4	203263_s_at
SASH1	SAM and SH3 domain containing 1	2.0E-02	-2.4	41644_at
SASH1	SAM and SH3 domain containing 1	1.3E-02	-2.4	213236_at
STOML1	stomatin (EPB72)-like 1	1.2E-02	-2.4	33736_at
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	1.5E-02	-2.4	206544_x_at
WDR7	WD repeat domain 7	5.3E-03	-2.4	212880_at
AES	amino-terminal enhancer of split	2.0E-02	-2.4	217729_s_at
CLN5	ceroid-lipofuscinosis, neuronal 5	2.6E-02	-2.4	204085_s_at
DENND4C	DENN/MADD domain containing 4C	1.8E-03	-2.4	205684_s_at
ZHX3	zinc fingers and homeoboxes 3	4.2E-02	-2.4	217367_s_at
CREM	cAMP responsive element modulator	4.1E-02	-2.4	209967_s_at
ZEB1	zinc finger E-box binding homeobox 1	1.9E-02	-2.3	212758_s_at
PTPN12	protein tyrosine phosphatase, non-receptor type 12	1.3E-02	-2.3	202006_at
MYO5A	myosin VA (heavy chain 12, myosin)	2.9E-02	-2.3	204527_at
AKAP13	A kinase (PRKA) anchor protein 13	4.0E-02	-2.3	209534_x_at
VPS13C	vacuolar protein sorting 13 homolog C ( <i>S. cerevisiae</i> )	2.8E-02	-2.3	218396_at
MID2	midline 2	3.3E-02	-2.3	208384_s_at

BCL2L2	BCL2-like 2	2.2E-02	-2.3	209311_at
APOL6	apolipoprotein L, 6	4.8E-02	-2.3	219716_at
C17orf108	chromosome 17 open reading frame 108	3.3E-02	-2.3	213195_at
FYCO1	FYVE and coiled-coil domain containing 1	1.8E-02	-2.3	218204_s_at
ZEB1	zinc finger E-box binding homeobox 1	2.2E-02	-2.2	210875_s_at
CALM3	calmodulin 3 (phosphorylase kinase, delta)	1.2E-02	-2.2	200622_x_at
RAB8B	RAB8B, member RAS oncogene family	4.2E-03	-2.2	219210_s_at
MAP3K13	mitogen-activated protein kinase kinase kinase 13	1.5E-02	-2.2	206249_at
HAAO	3-hydroxyanthranilate 3,4-dioxygenase	1.1E-02	-2.2	205657_at
BAT2L1	HLA-B associated transcript 2-like 1	4.0E-02	-2.2	212068_s_at
INPP5A	inositol polyphosphate-5-phosphatase, 40kDa	8.4E-03	-2.2	203006_at
-	-	1.9E-02	-2.2	214808_at
TIMP2	TIMP metalloproteinase inhibitor 2	3.2E-02	-2.2	203167_at
TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	4.5E-02	-2.2	203221_at
MLXIP	MLX interacting protein	3.6E-02	-2.2	202519_at
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	1.1E-02	-2.2	206542_s_at
TENC1	tensin like C1 domain containing phosphatase (tensin 2)	3.8E-02	-2.2	212494_at
SH3BGRL	SH3 domain binding glutamic acid-rich protein like	2.4E-02	-2.2	201311_s_at
TLN1	talin 1	7.2E-03	-2.2	203254_s_at
GOLGA2	golgin A2	8.0E-03	-2.1	35436_at
DMXL2	Dmx-like 2	4.3E-02	-2.1	212820_at
KIAA1109	KIAA1109	3.4E-02	-2.1	214929_s_at
MAN1A2	mannosidase, alpha, class 1A, member 2	3.9E-02	-2.1	217920_at
DTWD1	DTW domain containing 1	4.1E-02	-2.1	219291_at
PCDHGC3;PCDHGA10;PCDHGA11;PCDHGA2;PCDHGA3;PCDHGA7;PCDHGB7;PCDHGA8;	protocadherin gamma subfamily C, 3;protocadherin gamma subfamily A, 10;protocadherin gamma subfamily A, 11;protocadherin gamma subfamily A, 2;protocadherin gamma subfamily A, 3;protocadherin gamma subfamily A, 7;protocadherin gamma subfamily B, 7;protocadherin gamma subfamily A, 8;	5.3E-03	-2.1	209079_x_at
CHN1	chimerin (chimaerin) 1	3.7E-02	-2.1	212624_s_at
CLN5	ceroid-lipofuscinosis, neuronal 5	1.7E-02	-2.1	204084_s_at

-	-	2.8E-02	-2.1	215185_at
FYN	FYN oncogene related to SRC, FGR, YES	4.4E-02	-2.1	210105_s_at
OAZ2	ornithine decarboxylase antizyme 2	1.5E-02	-2.1	201365_at
IRF9	interferon regulatory factor 9	4.7E-02	-2.1	203882_at
GLT8D2	glycosyltransferase 8 domain containing 2	3.9E-02	-2.1	221447_s_at
PCDHGC3;PCDHGA10;PCDHGA11;PCDHGA2;PCDHGA3;PCDHGA7;PCDHGB7;PCDHGA8;	protocadherin gamma subfamily C, 3;protocadherin gamma subfamily A, 10;protocadherin gamma subfamily A, 11;protocadherin gamma subfamily A, 2;protocadherin gamma subfamily A, 3;protocadherin gamma subfamily A, 7;protocadherin gamma subfamily B, 7;protocadherin gamma subfamily A, 8;	4.7E-03	-2.1	215836_s_at
MCF2	MCF.2 cell line derived transforming sequence	9.0E-03	-2.1	214884_at
BAT2L1	HLA-B associated transcript 2-like 1	3.5E-02	-2.1	212069_s_at
SETX	senataxin	4.7E-03	-2.1	201964_at
PCDHGC3;PCDHGA10;PCDHGA11;PCDHGA2;PCDHGA3;PCDHGA7;PCDHGB7;PCDHGA8;	protocadherin gamma subfamily C, 3;protocadherin gamma subfamily A, 10;protocadherin gamma subfamily A, 11;protocadherin gamma subfamily A, 2;protocadherin gamma subfamily A, 3;protocadherin gamma subfamily A, 7;protocadherin gamma subfamily B, 7;protocadherin gamma subfamily A, 8;	7.3E-03	-2.1	205717_x_at
WDFY3	WD repeat and FYVE domain containing 3	1.7E-02	-2.1	212598_at
LPHN1	latrophilin 1	2.0E-02	-2.0	203488_at
ZEB1	zinc finger E-box binding homeobox 1	1.5E-02	-2.0	212764_at
FBXO28	F-box protein 28	4.2E-02	-2.0	202271_at
-	-	2.5E-02	-2.0	213156_at
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	2.9E-02	-2.0	212257_s_at
GOLGA2	golgin A2	2.2E-02	-2.0	204384_at
MPDZ	multiple PDZ domain protein	2.5E-02	-2.0	205079_s_at
CAB39L	calcium binding protein 39-like	4.2E-02	-2.0	221003_s_at



PCDHGC3;PCDHGA10;PCDHGA11;PCDHGA2;PCDHGA3;PCDHGA7;PCDHGB7;PCDHGA8;	protocadherin gamma subfamily C, 3;protocadherin gamma subfamily A, 10;protocadherin gamma subfamily A, 11;protocadherin gamma subfamily A, 2;protocadherin gamma subfamily A, 3;protocadherin gamma subfamily A, 7;protocadherin gamma subfamily B, 7;protocadherin gamma subfamily A, 8;	8.4E-03	-2.0	211066_x_at
MPDZ	multiple PDZ domain protein	1.5E-02	-2.0	213306_at
LY86	lymphocyte antigen 86	2.1E-02	2.0	205859_at
SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	2.2E-02	2.0	201075_s_at
MTFR1	mitochondrial fission regulator 1	2.3E-02	2.0	203207_s_at
PHB	prohibitin	1.6E-02	2.0	200658_s_at
FEN1	flap structure-specific endonuclease 1	2.7E-02	2.0	204767_s_at
AP1G2	adaptor-related protein complex 1, gamma 2 subunit	4.6E-02	2.0	201613_s_at
NAP1L1	nucleosome assembly protein 1-like 1	2.7E-02	2.0	208753_s_at
TBCE	tubulin folding cofactor E	4.7E-03	2.0	203714_s_at
MTERFD1	MTERF domain containing 1	1.3E-02	2.0	219363_s_at
LSM2	LSM2 homolog, U6 small nuclear RNA associated ( <i>S. cerevisiae</i> )	4.5E-02	2.0	209449_at
CBX3	chromobox homolog 3 (HP1 gamma homolog, <i>Drosophila</i> )	1.7E-02	2.0	201091_s_at
DECR2	2,4-dienoyl CoA reductase 2, peroxisomal	2.2E-02	2.0	219664_s_at
GMDS	GDP-mannose 4,6-dehydratase	1.0E-02	2.1	214106_s_at
SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	4.8E-02	2.1	203124_s_at
FAM36A	family with sequence similarity 36, member A	3.5E-02	2.1	206848_at
SRPK1	SFRS protein kinase 1	1.8E-02	2.1	202200_s_at
STAG3	stromal antigen 3	4.2E-02	2.1	219753_at
MTFR1	mitochondrial fission regulator 1	1.1E-02	2.1	203208_s_at
CENPA	centromere protein A	1.9E-02	2.1	210821_x_at
RAMP2	receptor (G protein-coupled) activity modifying protein 2	1.7E-02	2.1	205779_at
CSE1L	CSE1 chromosome segregation 1-like (yeast)	1.8E-02	2.1	201111_at
DALRD3	DALR anticodon binding domain containing 3	3.9E-02	2.1	221934_s_at
NAP1L1	nucleosome assembly protein 1-like 1	2.3E-02	2.1	208754_s_at
POLD1	polymerase (DNA directed), delta 1, catalytic subunit 125kDa	8.4E-03	2.1	203422_at

DDX39	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	1.1E-02	2.2	201584_s_at
RRS1	RRS1 ribosome biogenesis regulator homolog ( <i>S. cerevisiae</i> )	2.7E-02	2.2	209567_at
SLC25A13	solute carrier family 25, member 13 (citrin)	1.3E-02	2.2	203775_at
SCARB1	scavenger receptor class B, member 1	4.3E-02	2.2	201819_at
HSPD1	heat shock 60kDa protein 1 (chaperonin)	1.5E-02	2.2	200806_s_at
GTSE1	G-2 and S-phase expressed 1	3.9E-02	2.2	215942_s_at
EBP	emopamil binding protein (sterol isomerase)	1.3E-02	2.2	202735_at
CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	4.8E-02	2.2	201639_s_at
EIF2S2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	1.5E-02	2.2	208725_at
HN1L	hematological and neurological expressed 1-like	2.7E-02	2.2	212115_at
PRIM2	primase, DNA, polypeptide 2 (58kDa)	2.1E-02	2.2	205628_at
POLD2	polymerase (DNA directed), delta 2, regulatory subunit 50kDa	1.3E-02	2.2	201115_at
EIF3H	eukaryotic translation initiation factor 3, subunit H	6.0E-03	2.2	201592_at
DBF4	DBF4 homolog ( <i>S. cerevisiae</i> )	1.3E-02	2.2	204244_s_at
AZIN1	antizyme inhibitor 1	3.3E-02	2.2	201772_at
EBP	emopamil binding protein (sterol isomerase)	2.5E-02	2.2	213787_s_at
CYC1	cytochrome c-1	1.3E-02	2.2	201066_at
DUS4L	dihydrouridine synthase 4-like ( <i>S. cerevisiae</i> )	2.9E-02	2.3	205761_s_at
MKI67	antigen identified by monoclonal antibody Ki-67	1.9E-02	2.3	212021_s_at
CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	4.1E-02	2.3	33132_at
DARS2	aspartyl-tRNA synthetase 2, mitochondrial	2.0E-02	2.3	218365_s_at
CDC45L	CDC45 cell division cycle 45-like ( <i>S. cerevisiae</i> )	2.8E-02	2.3	204126_s_at
C19orf54	chromosome 19 open reading frame 54	1.8E-02	2.3	222052_at
SQLE	squalene epoxidase	2.4E-02	2.3	213577_at
BUB1	budding uninhibited by benzimidazoles 1 homolog (yeast)	7.1E-03	2.3	215509_s_at
C1orf112	chromosome 1 open reading frame 112	4.5E-02	2.3	220840_s_at
MCM7	minichromosome maintenance complex component 7	3.1E-02	2.3	208795_s_at

TSTA3	tissue specific transplantation antigen P35B	3.6E-02	2.3	36936_at
AHCY	adenosylhomocysteinase	9.7E-03	2.4	200903_s_at
PTPRF	protein tyrosine phosphatase, receptor type, F	4.0E-02	2.4	200635_s_at
DCTPP1	dCTP pyrophosphatase 1	1.3E-02	2.4	218069_at
SLC5A6	solute carrier family 5 (sodium-dependent vitamin transporter), member 6	4.9E-02	2.4	204087_s_at
BOLA2;BOLA2B;	bolA homolog 2 (E. coli);bolA homolog 2B (E. coli);	2.9E-02	2.4	209836_x_at
RFC4	replication factor C (activator 1) 4, 37kDa	2.1E-02	2.4	204023_at
SQLE	squalene epoxidase	2.9E-02	2.4	209218_at
MCM7	minichromosome maintenance complex component 7	1.5E-02	2.4	210983_s_at
ACY1	aminoacylase 1	3.1E-02	2.4	202740_at
HSD17B11	hydroxysteroid (17-beta) dehydrogenase 11	1.6E-02	2.4	217989_at
UBE2S	ubiquitin-conjugating enzyme E2S	7.8E-03	2.4	202779_s_at
NEK2	NIMA (never in mitosis gene a)-related kinase 2	3.3E-02	2.4	211080_s_at
PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	1.8E-02	2.4	201014_s_at
KIFC1	kinesin family member C1	1.3E-02	2.4	209680_s_at
ANKRD7	ankyrin repeat domain 7	2.2E-02	2.4	206112_at
PCK2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	3.1E-02	2.5	202847_at
C6orf26	chromosome 6 open reading frame 26	3.5E-02	2.5	212913_at
SLC19A1	solute carrier family 19 (folate transporter), member 1	1.4E-02	2.5	211576_s_at
WDR67	WD repeat domain 67	3.3E-02	2.5	214061_at
CKS1B	CDC28 protein kinase regulatory subunit 1B	1.9E-02	2.5	201897_s_at
RBCK1	RanBP-type and C3HC4-type zinc finger containing 1	3.6E-02	2.5	221827_at
PUS7	pseudouridylate synthase 7 homolog (S. cerevisiae)	2.1E-02	2.6	218984_at
SHMT2	serine hydroxymethyltransferase 2 (mitochondrial)	1.3E-02	2.6	214096_s_at
SHMT2	serine hydroxymethyltransferase 2 (mitochondrial)	1.7E-02	2.6	214095_at
PPAT	phosphoribosyl pyrophosphate amidotransferase	2.1E-02	2.6	209434_s_at
CENPN	centromere protein N	1.9E-02	2.6	222118_at

CCDC90A	coiled-coil domain containing 90A	2.6E-02	2.6	220094_s_at
TACC3	transforming, acidic coiled-coil containing protein 3	4.2E-02	2.6	218308_at
SQLE	squalene epoxidase	1.3E-02	2.6	213562_s_at
NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	5.8E-03	2.6	221923_s_at
EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	3.3E-02	2.7	221539_at
PAFAH1B3	platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)	4.7E-03	2.7	203228_at
ESPL1	extra spindle pole bodies homolog 1 (S. cerevisiae)	2.4E-02	2.7	204817_at
TIMELESS	timeless homolog (Drosophila)	3.5E-02	2.7	203046_s_at
PXMP2	peroxisomal membrane protein 2, 22kDa	1.3E-02	2.7	219076_s_at
CENPM	centromere protein M	2.7E-02	2.7	218741_at
ASAP1	ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	2.1E-02	2.8	221039_s_at
SHMT2	serine hydroxymethyltransferase 2 (mitochondrial)	1.1E-02	2.8	214437_s_at
CDCA3	cell division cycle associated 3	1.1E-02	2.8	221436_s_at
C12orf48	chromosome 12 open reading frame 48	3.1E-02	2.8	220060_s_at
GTSE1	G-2 and S-phase expressed 1	3.8E-02	2.9	204315_s_at
NMU	neuromedin U	4.0E-02	2.9	206023_at
CBS	cystathionine-beta-synthase	4.0E-02	2.9	212816_s_at
BOLA2	bolA homolog 2 (E. coli)	3.9E-03	2.9	210396_s_at
PTPRF	protein tyrosine phosphatase, receptor type, F	2.8E-02	2.9	200636_s_at
STK17B	serine/threonine kinase 17b	1.2E-02	2.9	205214_at
CDCA8	cell division cycle associated 8	1.1E-02	2.9	221520_s_at
WDYHV1	WDYHV motif containing 1	5.2E-03	2.9	219060_at
UGT2B28	UDP glucuronosyltransferase 2 family, polypeptide B28	4.8E-02	3.0	211682_x_at
CHEK1	CHK1 checkpoint homolog (S. pombe)	2.8E-02	3.0	205393_s_at
DONSON	downstream neighbor of SON	4.1E-02	3.0	221677_s_at
PRIM1	primase, DNA, polypeptide 1 (49kDa)	1.0E-02	3.0	205053_at
KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	1.1E-02	3.0	201088_at
PSRC1	proline/serine-rich coiled-coil 1	3.3E-02	3.0	201896_s_at
ARL4A	ADP-ribosylation factor-like 4A	4.1E-02	3.1	205020_s_at
GMNN	geminin, DNA replication inhibitor	3.9E-02	3.1	218350_s_at
DSCC1	defective in sister chromatid cohesion 1 homolog (S. cerevisiae)	9.4E-03	3.1	219000_s_at
LACTB2	lactamase, beta 2	1.0E-02	3.1	218701_at

RNASEH2A	ribonuclease H2, subunit A	3.6E-03	3.1	203022_at
KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	8.4E-03	3.2	211762_s_at
ESPL1	extra spindle pole bodies homolog 1 (S. cerevisiae)	1.2E-02	3.2	38158_at
C7orf68	chromosome 7 open reading frame 68	9.0E-03	3.3	218507_at
RAD51L1	RAD51-like 1 (S. cerevisiae)	7.3E-03	3.3	210255_at
MGC87042	STEAP family protein MGC87042	4.1E-02	3.3	217553_at
CDC25C	cell division cycle 25 homolog C (S. pombe)	1.5E-02	3.4	205167_s_at
BEAN	brain expressed, associated with Nedd4	2.1E-02	3.4	214068_at
FAM64A	family with sequence similarity 64, member A	3.9E-03	3.5	221591_s_at
NCAPH	non-SMC condensin I complex, subunit H	5.0E-03	3.5	212949_at
OPLAH	5-oxoprolinase (ATP-hydrolysing)	1.5E-02	3.5	222025_s_at
RPP40	ribonuclease P/MRP 40kDa subunit	1.3E-02	3.6	213427_at
EPCAM	epithelial cell adhesion molecule	5.1E-03	3.6	201839_s_at
HN1	hematological and neurological expressed 1	1.7E-02	3.6	217755_at
MKI67	antigen identified by monoclonal antibody Ki-67	1.5E-02	3.6	212023_s_at
HJURP	Holliday junction recognition protein	7.3E-03	3.6	218726_at
CHEK1	CHK1 checkpoint homolog (S. pombe)	3.7E-02	3.6	205394_at
NEIL3	nei endonuclease VIII-like 3 (E. coli)	2.1E-02	3.7	219502_at
TRIB3	tribbles homolog 3 (Drosophila)	6.3E-03	3.7	218145_at
RACGAP1	Rac GTPase activating protein 1	2.2E-02	3.8	222077_s_at
E2F8	E2F transcription factor 8	4.8E-02	3.8	219990_at
CENPE	centromere protein E, 312kDa	1.5E-02	3.8	205046_at
MKI67	antigen identified by monoclonal antibody Ki-67	1.3E-02	3.8	212022_s_at
BIRC5	baculoviral IAP repeat-containing 5	6.2E-03	3.8	210334_x_at
BID	BH3 interacting domain death agonist	3.6E-02	3.9	211725_s_at
KLHL7	kelch-like 7 (Drosophila)	3.6E-03	3.9	220238_s_at
TMEM97	transmembrane protein 97	4.4E-03	3.9	212279_at
KRT18	keratin 18	1.3E-02	4.0	201596_x_at
FAM38A	family with sequence similarity 38, member A	4.8E-02	4.0	202771_at
CENPN	centromere protein N	6.0E-03	4.3	219555_s_at
FOXM1	forkhead box M1	1.2E-02	4.3	202580_x_at
SPAG4	sperm associated antigen 4	2.4E-02	4.3	219888_at
PTTG3P	pituitary tumor-transforming 3 (pseudogene)	7.8E-03	4.4	208511_at
FLNB	filamin B, beta	1.9E-02	4.4	208614_s_at
AURKB	aurora kinase B	2.3E-02	4.5	209464_at

SIX1	SIX homeobox 1	3.2E-02	4.5	205817_at
FAM49B	family with sequence similarity 49, member B	3.6E-03	4.5	217916_s_at
TMEM97	transmembrane protein 97	3.6E-03	4.6	212281_s_at
TMEM97	transmembrane protein 97	3.6E-03	4.6	212282_at
KIF14	kinesin family member 14	1.1E-02	4.7	206364_at
GTSE1	G-2 and S-phase expressed 1	8.3E-03	4.7	204318_s_at
SPAG5	sperm associated antigen 5	1.2E-02	4.8	203145_at
RAD51AP1	RAD51 associated protein 1	2.6E-02	4.8	204146_at
SPC25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	1.7E-02	4.8	209891_at
PRC1	protein regulator of cytokinesis 1	3.5E-02	4.9	218009_s_at
HK2	hexokinase 2	1.5E-02	4.9	202934_at
DNAJC22	DnaJ (Hsp40) homolog, subfamily C, member 22	3.5E-02	5.0	220441_at
GGH	gamma-glutamyl hydrolase (conjugase, foylylpolygammaglutamyl hydrolase)	3.7E-02	5.0	203560_at
KIF4A	kinesin family member 4A	1.3E-02	5.0	218355_at
KLHL7	kelch-like 7 (Drosophila)	8.4E-03	5.0	220239_at
CCNA2	cyclin A2	5.8E-03	5.1	213226_at
TIAM1	T-cell lymphoma invasion and metastasis 1	2.1E-02	5.1	213135_at
SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	3.2E-02	5.2	202856_s_at
MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	1.1E-02	5.2	201761_at
CENPF	centromere protein F, 350/400ka (mitosin)	4.5E-02	5.2	209172_s_at
TRIP13	thyroid hormone receptor interactor 13	3.6E-03	5.4	204033_at
EZH2	enhancer of zeste homolog 2 (Drosophila)	2.1E-02	5.4	203358_s_at
CYP26B1	cytochrome P450, family 26, subfamily B, polypeptide 1	2.0E-02	5.4	219825_at
APOBEC3B	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B	4.4E-03	5.6	206632_s_at
KIF2C	kinesin family member 2C	1.0E-02	5.6	209408_at
CKS2	CDC28 protein kinase regulatory subunit 2	1.9E-02	5.7	204170_s_at
KIF18A	kinesin family member 18A	9.7E-03	5.7	221258_s_at
NCAPG	non-SMC condensin I complex, subunit G	3.3E-02	5.7	218662_s_at
CD226	CD226 molecule	2.4E-02	5.8	207315_at
KIF15	kinesin family member 15	9.4E-03	6.1	219306_at

KIF18B	kinesin family member 18B	5.8E-03	6.2	222039_at
GIN51	GIN5 complex subunit 1 (Psf1 homolog)	1.5E-02	6.2	206102_at
NUSAP1	nucleolar and spindle associated protein 1	4.6E-02	6.3	219978_s_at
CCNA2	cyclin A2	1.2E-02	6.6	203418_at
DEPDC1	DEP domain containing 1	4.7E-03	6.8	220295_x_at
CRABP2	cellular retinoic acid binding protein 2	4.1E-02	7.0	202575_at
CDC20	cell division cycle 20 homolog (S. cerevisiae)	9.0E-03	7.0	202870_s_at
BIRC5	baculoviral IAP repeat-containing 5	4.7E-03	7.2	202094_at
CCNB2	cyclin B2	1.5E-02	7.2	202705_at
CCNB1	cyclin B1	3.6E-03	7.2	214710_s_at
CDKN3	cyclin-dependent kinase inhibitor 3	4.7E-03	7.4	209714_s_at
NCAPG	non-SMC condensin I complex, subunit G	1.9E-02	7.5	218663_at
KIF11	kinesin family member 11	1.5E-02	7.7	204444_at
CENPF	centromere protein F, 350/400ka (mitosin)	2.7E-02	7.7	207828_s_at
CCNE2	cyclin E2	2.0E-02	7.8	205034_at
DLGAP5	discs, large (Drosophila) homolog-associated protein 5	4.9E-03	8.0	203764_at
AURKA	aurora kinase A	7.7E-03	8.0	208079_s_at
LMNB1	lamin B1	4.7E-03	8.0	203276_at
SHCBP1	SHC SH2-domain binding protein 1	2.8E-02	8.1	219493_at
AURKA	aurora kinase A	4.7E-03	8.2	204092_s_at
UBE2C	ubiquitin-conjugating enzyme E2C	8.4E-03	8.4	202954_at
CDK1	cyclin-dependent kinase 1	1.5E-02	8.5	203214_x_at
<b>WNT5A</b>	<b>wingless-type MMTV integration site family, member 5A</b>	<b>3.9E-02</b>	<b>8.6</b>	<b>213425_at</b>
TPX2	TPX2, microtubule-associated, homolog (Xenopus laevis)	9.4E-03	8.7	210052_s_at
MARCKSL1	MARCKS-like 1	7.8E-03	8.8	200644_at
CDK1	cyclin-dependent kinase 1	1.9E-02	9.0	210559_s_at
HMMR	hyaluronan-mediated motility receptor (RHAMM)	4.7E-03	9.0	209709_s_at
FOXL2	forkhead box L2	3.2E-02	9.1	220102_at
CENPA	centromere protein A	4.7E-03	9.1	204962_s_at
TOP2A	topoisomerase (DNA) II alpha 170kDa	4.1E-02	9.3	201292_at
CDK1	cyclin-dependent kinase 1	2.2E-02	9.4	203213_at
DUSP2	dual specificity phosphatase 2	2.1E-02	9.6	204794_at
MSX1	msh homeobox 1	2.0E-02	9.8	205932_s_at
TTK	TTK protein kinase	8.3E-03	10.1	204822_at
PCOLCE	procollagen C-endopeptidase enhancer	2.8E-02	10.3	202465_at

VAMP8	vesicle-associated membrane protein 8 (endobrevin)	9.2E-03	11.4	202546_at
OSR2	odd-skipped related 2 (Drosophila)	2.7E-02	11.5	213568_at
RRM2	ribonucleotide reductase M2	2.4E-02	11.5	201890_at
PTTG1	pituitary tumor-transforming 1	4.9E-03	12.8	203554_x_at
BUB1	budding uninhibited by benzimidazoles 1 homolog (yeast)	6.4E-03	12.9	209642_at
FAM38B	family with sequence similarity 38, member B	4.7E-02	13.6	219602_s_at
CEP55	centrosomal protein 55kDa	5.1E-03	14.1	218542_at
PBK	PDZ binding kinase	1.4E-02	14.2	219148_at
HMMR	hyaluronan-mediated motility receptor (RHAMM)	4.7E-03	14.7	207165_at
BIRC5	baculoviral IAP repeat-containing 5	4.7E-03	14.9	202095_s_at
NEK2	NIMA (never in mitosis gene a)-related kinase 2	3.6E-03	15.2	204641_at
DUSP4	dual specificity phosphatase 4	3.3E-02	15.4	204015_s_at
ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	1.6E-02	15.4	219918_s_at
KIF20A	kinesin family member 20A	3.6E-03	19.2	218755_at
RGS10	regulator of G-protein signaling 10	4.7E-03	25.8	204319_s_at
DUSP4	dual specificity phosphatase 4	3.8E-02	28.8	204014_at
ALDH1A2	aldehyde dehydrogenase 1 family, member A2	1.5E-02	127.0	207016_s_at