



HOKKAIDO UNIVERSITY

Title	Comparing spatial expression dynamics of bovine blastocyst under three different procedures : in-vivo, in-vitro derived, and somatic cell nuclear transfer embryos
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Supplemental table 1. Genes that were differentially expressed in the ICM relative to the TE in in vivo-derived blastocyst (VIVO list).

Gene Symbol	Probe Set ID	Regulation	Fold change ([ICM] / [TE])	Gene Title
APEX1	Bt.1302.1.S1_at	UP	2.0144787	APEX nuclease (multifunctional DNA repair enzyme) 1
CITED1	Bt.4437.1.S1_at	UP	1.6164187	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1
ADFP	Bt.2568.1.S1_at	UP	1.9543712	adipose differentiation-related protein
TGM2	Bt.5401.1.S1_at	UP	2.32264	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
DCPS	Bt.12291.1.S1_at	UP	1.3672112	decapping enzyme, scavenger
AK3L1	Bt.5149.1.S2_at	UP	2.255392	adenylate kinase 3-like 1
AK3L1	Bt.5149.1.S1_at	UP	1.7262286	adenylate kinase 3-like 1
PPP1R8	Bt.22.1.S1_at	UP	1.563835	protein phosphatase 1, regulatory (inhibitor) subunit 8
CCNB2	Bt.41.1.S1_at	UP	1.4780214	cyclin B2
GNAI1	Bt.5546.1.S1_at	UP	2.056233	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
SLC6A8	Bt.4627.1.S2_at	UP	2.5495603	solute carrier family 6 (neurotransmitter transporter, creatine), member
DGAT2	Bt.23550.1.S1_at	UP	2.420522	diacylglycerol O-acyltransferase homolog 2 (mouse)
RHEBL1	Bt.22959.1.S1_at	UP	1.7774082	Ras homolog enriched in brain like 1
PTN	Bt.4844.1.S1_at	UP	7.7840643	pleiotrophin
HDGF	Bt.4705.1.S1_at	UP	1.480912	hepatoma-derived growth factor (high-mobility group protein 1-like)
GLUL	Bt.12472.1.S1_at	UP	1.9055848	glutamate-ammonia ligase (glutamine synthetase)
HDAC3	Bt.22129.1.S1_at	UP	1.5837104	histone deacetylase 3
CCNB1	Bt.15980.1.A1_at	UP	1.4448289	cyclin B1
PSIP1	Bt.12290.1.S1_at	UP	1.8953003	PC4 and SFRS1 interacting protein 1
IL13RA1	Bt.28750.1.S1_at	UP	1.7736936	interleukin 13 receptor, alpha 1
KIT	Bt.12804.1.S1_at	UP	3.327076	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
ITGA2	Bt.12761.1.A1_at	UP	25.674212	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
RPL15	Bt.23339.1.S2_at	UP	1.7425853	ribosomal protein L15
CFB	Bt.13542.1.S1_at	UP	31.277626	complement factor B
C1S	Bt.1491.1.S1_at	UP	2.8616235	complement component 1, s subcomponent
C3	Bt.4209.2.S1_at	UP	2.6537025	complement component 3
PSME1	Bt.2575.1.S1_at	UP	3.6049745	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
MGST3	Bt.1157.1.S1_at	UP	2.2629623	microsomal glutathione S-transferase 3
PTRF	Bt.1579.1.S1_at	UP	2.1948833	polymerase I and transcript release factor
SPTBN1	Bt.4972.1.S1_at	UP	1.7394037	spectrin, beta, non-erythrocytic 1
BPNT1	Bt.1721.1.S1_at	UP	1.3669772	3'(2'), 5'-bisphosphate nucleotidase 1
MGC127874	Bt.14079.1.S1_at	UP	1.6970551	hypothetical LOC508617
CD47	Bt.15742.1.S2_at	UP	9.755638	CD47 molecule
BNIP3L	Bt.888.1.S1_at	UP	1.3883237	BCL2/adenovirus E1B 19kDa interacting protein 3-like
	Bt.3177.1.A1_at	UP	1.3071239	
POLR2H	Bt.2453.1.S1_at	UP	1.39585	polymerase (RNA) II (DNA directed) polypeptide H
SUOX	Bt.2457.1.S1_at	UP	2.2626696	sulfite oxidase
SMARCE1	Bt.18381.1.S1_at	UP	1.6564338	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
PCOLCE	Bt.7955.1.S1_at	UP	2.011238	procollagen C-endopeptidase enhancer
CLSTN1	Bt.22552.1.S1_at	UP	1.5220119	calsyntenin 1
LOC613525	Bt.7358.1.S1_at	UP	1.3910799	similar to Selenoprotein H
	Bt.15782.1.S1_at	UP	1.8005942	
EIF2B2	Bt.3050.1.S1_at	UP	1.2260766	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa
DNAJA1	Bt.3274.1.A2_at	UP	1.7898092	DnaJ (Hsp40) homolog, subfamily A, member 1
TRIM38	Bt.27071.1.S1_at	UP	34.285606	tripartite motif-containing 38
LOC768237	Bt.13315.1.S1_at	UP	5.2325807	hypothetical protein LOC768237
MSH2	Bt.635.1.S1_at	UP	1.3103786	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
MAPKAPK3	Bt.8706.1.S1_at	UP	1.6706016	mitogen-activated protein kinase-activated protein kinase 3
	Bt.11016.1.S1_at	UP	1.3697431	
	Bt.9675.1.S1_at	UP	22.43633	
LOC511106	Bt.9693.1.S1_at	UP	2.43421	serpin peptidase inhibitor, clade B like
DCTN5	Bt.4523.1.S1_at	UP	1.2591205	dynactin 5 (p25)
	Bt.801.1.S1_at	UP	1.6098835	
	Bt.13267.1.S1_at	UP	1.4929217	
	Bt.11163.1.S1_at	UP	1.7085124	
CDCA7	Bt.6441.1.S1_at	UP	3.5115843	cell division cycle associated 7
FASTKD5	Bt.7257.1.S1_at	UP	1.4001774	FAST kinase domains 5
CDC14B	Bt.6842.1.S1_at	UP	1.5237653	CDC14 cell division cycle 14 homolog B (S. cerevisiae)
LOC100138653	Bt.1136.1.S1_at	UP	1.4404249	similar to Zinc finger protein 329
NTAN1	Bt.4242.1.A1_at	UP	1.3834908	N-terminal asparagine amidase
STMN1	Bt.3137.1.S1_at	UP	2.1376314	stathmin 1
HIBADH	Bt.6171.1.A1_at	UP	1.8348632	3-hydroxyisobutyrate dehydrogenase
LAS1L	Bt.2274.1.A1_at	UP	1.4813304	LAS1-like (S. cerevisiae)
MVP	Bt.5390.1.S1_at	UP	2.1358657	major vault protein
HEBP1	Bt.5047.1.S1_at	UP	1.68012	heme binding protein 1
CASP6	Bt.20113.1.S1_at	UP	1.6214175	caspase 6, apoptosis-related cysteine peptidase
TMEM120A	Bt.7955.2.S1_at	UP	2.0142086	transmembrane protein 120A
RBBP4	Bt.9383.1.S1_at	UP	1.4902431	retinoblastoma binding protein 4
ABCG1	Bt.721.1.A1_at	UP	2.0670898	ATP-binding cassette, sub-family G (WHITE), member 1
NID1	Bt.8106.1.S1_at	UP	8.875065	nidogen 1
ADH5	Bt.2561.1.S1_at	UP	1.4570591	alcohol dehydrogenase 5 (class III), chi polypeptide
TRAP1	Bt.4118.1.A1_at	UP	1.3770425	TNF receptor-associated protein 1
	Bt.13702.1.S1_at	UP	3.3332176	
RBM7	Bt.17261.1.S1_at	UP	1.454793	RNA binding motif protein 7
LOC618617	Bt.22224.1.S1_at	UP	1.7451979	similar to Family with sequence similarity 100, member B
MGC127133	Bt.28223.1.S1_at	UP	8.445912	20-beta-hydroxysteroid dehydrogenase-like
PECR	Bt.15781.1.A1_at	UP	2.1241217	peroxisomal trans-2-enoyl-CoA reductase
	Bt.11187.1.S1_at	UP	1.3997544	
STAT1	Bt.9064.1.S1_at	UP	1.6073965	signal transducer and activator of transcription 1, 91kDa
PPFIBP2	Bt.9277.1.S1_at	UP	1.6025393	PTPRF interacting protein, binding protein 2 (liprin beta 2)
	Bt.11496.1.S1_at	UP	3.3996017	
TEX9	Bt.16460.1.A1_at	UP	2.217228	Testis expressed 9
C21H14orf147	Bt.3001.1.S1_at	UP	1.8780094	chromosome 14 open reading frame 147 ortholog
PSMB3	Bt.7644.1.S1_at	UP	1.4073075	proteasome (prosome, macropain) subunit, beta type, 3
LOC100141038	Bt.22110.1.S1_at	UP	1.3567537	similar to pleckstrin homology, Sec7 and coiled-coil domains 1
RSL1D1	Bt.4815.1.S1_at	UP	1.1922216	ribosomal L1 domain containing 1
EAF1	Bt.6117.1.S1_at	UP	1.2072442	ELL associated factor 1
MRPL37	Bt.3873.1.S1_at	UP	1.4841843	mitochondrial ribosomal protein L37
C8H9orf23	Bt.20332.1.S1_at	UP	1.6896931	chromosome 9 open reading frame 23 ortholog
HOMER2	Bt.5922.1.S1_at	UP	2.1450737	homer homolog 2 (Drosophila)
TTC19	Bt.1937.1.S1_at	UP	1.4909716	tetratricopeptide repeat domain 19
POLR1C	Bt.26716.3.A1_a_at	UP	1.5158063	polymerase (RNA) I polypeptide C, 30kDa
	Bt.12380.1.S1_at	UP	1.5632933	
SH3GLB1	Bt.21272.1.S1_at	UP	1.6683569	SH3-domain GRB2-like endophilin B1
	Bt.15868.1.S1_at	UP	1.8093483	
MAP1LC3B	Bt.6774.1.S1_at	UP	2.20827	microtubule-associated protein 1 light chain 3 beta

	Bt.17090.1.S1_at	UP	2.661328	
HNRPDL	Bt.23277.1.A1_at	UP	1.9649235	heterogeneous nuclear ribonucleoprotein D-like
XPO7	Bt.5460.1.A1_at	UP	1.4641029	Exportin 7
USP10	Bt.27346.1.S1_at	UP	1.1888819	ubiquitin specific peptidase 10
PPP2R2B	Bt.19661.1.S1_at	UP	3.87037	protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform
GLRX5	Bt.11167.1.S1_at	UP	1.6831651	glutaredoxin 5
PTDSS1	Bt.17659.1.S1_at	UP	1.8767349	phosphatidylserine synthase 1
SMG1	Bt.13987.1.A1_at	UP	1.6307738	SMG1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans)
RANBP3	Bt.7458.1.S1_at	UP	1.4585813	RAN binding protein 3
CSRP2BP	Bt.15770.1.S1_at	UP	1.4687289	CSRP2 binding protein
	Bt.9090.1.S1_at	UP	1.7380397	
PHC1	Bt.20423.1.S1_at	UP	1.7345161	similar to polyhomeotic 1-like
	Bt.20027.1.S1_at	UP	2.4478884	
CAPN5	Bt.12562.1.S1_at	UP	1.5798773	calpain 5
SRPK2	Bt.20106.1.S1_at	UP	2.0642877	SFRS protein kinase 2
	Bt.17871.1.S1_a_at	UP	1.3194522	
	Bt.16100.1.S1_at	UP	1.7159756	
NCAPH	Bt.28346.2.S1_a_at	UP	1.4690192	non-SMC condensin I complex, subunit H
YTHDF1	Bt.19375.1.S1_at	UP	1.5354966	YTH domain family, member 1
KDM5B	Bt.20347.1.S1_at	UP	1.7555759	lysine (K)-specific demethylase 5B
LOC784903	Bt.21888.1.S1_at	UP	1.4787071	similar to Uncharacterized protein C15orf39
C5H12orf32	Bt.10610.1.S1_at	UP	1.6682061	chromosome 12 open reading frame 32 ortholog
CBR1	Bt.7872.1.S1_at	UP	1.6347631	Hypothetical LOC780962
IL6R	Bt.22692.1.A1_at	UP	2.4788933	interleukin 6 receptor
BCL3	Bt.16930.1.A1_at	UP	3.031921	B-cell CLL/lymphoma 3
IL6ST	Bt.5705.1.S1_at	UP	3.1758199	Interleukin 6 signal transducer (gp130, oncostatin M receptor)
	Bt.12453.1.A1_a_at	UP	6.530583	
	Bt.12453.1.A1_at	UP	4.984032	
	Bt.28312.1.S1_at	UP	1.8890554	
GNG11	Bt.2988.1.S1_at	UP	3.3750973	guanine nucleotide binding protein (G protein), gamma 11
MRPS18B	Bt.3811.1.S1_at	UP	1.1880627	mitochondrial ribosomal protein S18B
	Bt.28267.1.S1_at	UP	2.1537294	
WDR40A	Bt.3382.1.S1_at	UP	1.6557332	WD repeat domain 40A
	Bt.2501.1.S1_at	UP	2.2564912	
	Bt.4726.1.S1_at	UP	2.0374887	
	Bt.6090.1.S1_at	UP	1.2529715	
MAGEF1	Bt.6114.1.S1_at	UP	1.9575834	melanoma antigen family F, 1
	Bt.21286.1.S1_at	UP	2.8005452	
SRPK1	Bt.20585.1.S1_at	UP	1.6235844	SFRS protein kinase 1
	Bt.7041.1.S1_at	UP	2.5520396	
EDN3	Bt.26462.1.S1_at	UP	4.75161	endothelin 3
KLHL24	Bt.3191.1.A1_at	UP	2.8737917	kelch-like 24 (Drosophila)
CETN3	Bt.19601.1.S1_at	UP	1.6697298	centrin, EF-hand protein, 3 (CDC31 homolog, yeast)
FBXO32	Bt.18639.1.A1_at	UP	2.0229359	F-box protein 32
MMD	Bt.615.1.S1_at	UP	1.7154373	monocyte to macrophage differentiation-associated
	Bt.28144.1.S1_at	UP	1.7674007	
SMS	Bt.14326.1.S1_at	UP	2.2810967	spermine synthase
UNG	Bt.11128.1.S1_at	UP	1.7999924	uracil-DNA glycosylase
	Bt.20257.1.S1_at	UP	2.5364273	
	Bt.1915.1.S1_at	UP	1.7779014	
HLTF	Bt.19519.1.S1_at	UP	1.8067261	Helicase-like transcription factor
	Bt.13355.1.S1_at	UP	2.1363962	
C22H3ORF23	Bt.17766.1.S1_at	UP	2.0591776	chromosome 3 open reading frame 23 ortholog
MAP3K6	Bt.16238.1.S1_a_at	UP	2.927973	mitogen-activated protein kinase kinase kinase 6
CBR3	Bt.22496.1.S1_at	UP	5.057767	carbonyl reductase 3
	Bt.22323.1.A1_a_at	UP	2.7390602	
REEP4	Bt.20485.1.S1_at	UP	5.725155	receptor accessory protein 4
	Bt.3140.1.A1_at	UP	2.7099814	
SRI	Bt.15882.2.S1_a_at	UP	1.492748	sorcin
LARP7	Bt.18573.1.S1_at	UP	1.3824133	La ribonucleoprotein domain family, member 7
PPIE	Bt.21742.1.A1_at	UP	1.9860842	peptidylprolyl isomerase E (cyclophilin E)
ORC1L	Bt.2111.1.S1_a_at	UP	2.147205	origin recognition complex, subunit 1-like (yeast)
GPR116	Bt.14566.1.A1_at	UP	3.9068844	G protein-coupled receptor 116
LOC784739	Bt.13345.1.A1_at	UP	1.339261	similar to ubiquitin specific peptidase 54
TNRC6A	Bt.18270.1.A1_at	UP	1.9185399	trinucleotide repeat containing 6A
	Bt.19737.1.A1_at	UP	2.247554	
HTATSF1	Bt.9198.1.A1_at	UP	1.3579912	HIV-1 Tat specific factor 1
CETN4	Bt.2882.1.A1_at	UP	2.1567402	centrin 4
	Bt.24112.1.A1_at	UP	5.5564265	
	Bt.13521.1.A1_at	UP	1.9922748	
L3MBTL2	Bt.26574.1.S1_at	UP	2.0588284	L(3)mbt-like 2 (Drosophila)
	Bt.20413.1.S1_at	UP	1.4612906	
FAM118B	Bt.21568.1.S1_at	UP	2.249217	family with sequence similarity 118, member B
FNBP1	Bt.10381.1.S1_at	UP	2.3474445	formin binding protein 1
	Bt.4686.1.S1_at	UP	1.4998085	
TRIM27	Bt.21774.1.S1_at	UP	1.5699908	Tripartite motif-containing 27
EXT1	Bt.19542.1.S1_at	UP	1.6197864	exostoses (multiple) 1
UNC119B	Bt.12558.1.S1_at	UP	1.6959343	unc-119 homolog B (C. elegans)
MED31	Bt.24579.1.S1_at	UP	1.7136828	mediator complex subunit 31
MTFR1	Bt.24259.1.A1_at	UP	1.4427279	mitochondrial fission regulator 1
RBM15B	Bt.29899.1.S1_at	UP	1.8901085	RNA binding motif protein 15B
FEZ1	Bt.5656.1.S1_at	UP	7.104574	fasciculation and elongation protein zeta 1 (zyglin I)
	Bt.20773.1.S1_at	UP	2.691397	
ASB8	Bt.15790.1.S1_at	UP	2.1135843	ankyrin repeat and SOCS box-containing 8
FLT3	Bt.28173.3.A1_a_at	UP	2.0391653	fms-related tyrosine kinase 3
BRCA1	Bt.14026.1.A1_at	UP	1.4915549	Breast cancer 1, early onset
OGT	Bt.22011.1.S1_at	UP	1.3144106	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
THOC6	Bt.6689.1.S1_at	UP	1.6577929	THO complex 6 homolog (Drosophila)
FAM117A	Bt.20247.1.S1_at	UP	1.8938073	family with sequence similarity 117, member A
RCL1	Bt.27964.1.A1_at	UP	1.9731848	RNA terminal phosphate cyclase-like 1
LOC505156	Bt.21222.1.S1_at	UP	1.7550768	KIAA0922-like
USP1	Bt.24095.1.A1_at	UP	1.6722239	Ubiquitin specific peptidase 1
LOC518469	Bt.12179.1.S1_at	UP	2.1205406	similar to Putative glycerophosphodiester phosphodiesterase 5
	Bt.16095.1.S1_at	UP	1.5461947	
	Bt.20966.1.A1_at	UP	2.6018038	
LOC785243	Bt.13216.1.A1_at	UP	1.7469716	similar to Density-regulated protein
KIAA1737	Bt.24248.1.S1_at	UP	3.059265	KIAA1737
	Bt.9096.1.S1_at	UP	1.6147752	
RPA3	Bt.10499.1.S1_at	UP	1.5179471	replication protein A3, 14kDa
DPH3	Bt.13929.1.A1_at	UP	1.7514906	DPH3, KTI11 homolog (S. cerevisiae)
HDAC8	Bt.16128.1.S1_at	UP	2.5987766	histone deacetylase 8
LOC538506	Bt.10333.1.S1_at	UP	3.1791837	Similar to Genetic suppressor element 1
TMEM107	Bt.9740.1.S1_at	UP	5.865157	Transmembrane protein 107
	Bt.28057.1.S1_at	UP	1.4454342	

MAP7D3	Bt.3861.1.S1_at	UP	2.9509	MAP7 domain containing 3
	Bt.26928.1.S1_at	UP	2.4545343	
JARID2	Bt.7008.1.S1_at	UP	2.178316	Jumonji, AT rich interactive domain 2
SHF	Bt.22982.1.A1_at	UP	2.8210046	Src homology 2 domain containing F
UBE2O	Bt.24878.1.A1_at	UP	2.024876	ubiquitin-conjugating enzyme E2O
CHSY1	Bt.17704.1.S1_at	UP	2.2733955	Chondroitin sulfate synthase 1
	Bt.26860.1.A1_at	UP	1.5439732	
ALMS1	Bt.26523.1.A1_at	UP	1.6913427	Alstrom syndrome 1
BCNT2	Bt.27010.1.A1_at	UP	3.1935596	bucentaur-2
	Bt.9179.1.A1_at	UP	2.2069716	
	Bt.23992.1.A1_at	UP	3.6497512	
STARD3NL	Bt.27269.1.A1_at	UP	1.8481971	STARD3 N-terminal like
	Bt.21534.2.A1_at	UP	1.5169624	
	Bt.27263.1.A1_at	UP	1.5485576	
	Bt.26748.1.A1_at	UP	2.20533	
	Bt.21884.1.S1_at	UP	2.4344423	
BCL2L14	Bt.14657.1.A1_at	UP	2.9372647	Bcl2-like 14 (apoptosis facilitator)
	Bt.9100.1.S1_at	UP	1.9787585	
UCK2	Bt.28506.1.A1_at	UP	4.4905543	uridine-cytidine kinase 2
BTK	Bt.26060.1.A1_at	UP	3.277451	Bruton agammaglobulinemia tyrosine kinase
	Bt.10458.1.A1_at	UP	2.908813	
HSPBAP1	Bt.14384.1.A1_at	UP	1.2596236	HSPB (heat shock 27kDa) associated protein 1
	Bt.24828.1.A1_at	UP	2.9221148	
PAXIP1	Bt.21228.1.A1_at	UP	1.5498295	PAX interacting (with transcription-activation domain) protein 1
	Bt.23660.1.A1_at	UP	1.478859	
	Bt.24316.1.A1_at	UP	3.4190643	
	Bt.26313.1.A1_at	UP	2.3318944	
QRSL1	Bt.28920.1.A1_at	UP	1.5432886	Glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1
ZNF292	Bt.22444.1.A1_at	UP	2.1656601	zinc finger protein 292
TNFAIP6	Bt.958.1.A1_at	UP	12.196892	tumor necrosis factor, alpha-induced protein 6
	Bt.18771.1.S1_at	UP	2.5533502	
	Bt.11348.1.A1_at	UP	1.9425409	
	Bt.28725.1.A1_at	UP	1.5380198	
INGX	Bt.28729.1.A1_at	UP	1.8120652	inhibitor of growth family, X-linked, pseudogene
	Bt.27937.1.A1_at	UP	3.0786178	
	Bt.10123.1.S1_at	UP	2.2755108	
PSMC6	Bt.22570.2.A1_at	UP	1.4037063	Proteasome (prosome, macropain) 26S subunit, ATPase, 6
	Bt.26647.1.A1_at	UP	7.274994	
	Bt.20955.1.A1_at	UP	3.3012583	
LOC511229	Bt.21177.1.A1_s.at	UP	5.6123734	similar to mCG142710
GPBP1	Bt.26684.1.S1_at	UP	1.3110772	GC-rich promoter binding protein 1
ZNF326	Bt.21469.1.S1_at	UP	1.2786629	Zinc finger protein 326
				FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived) /// similar to FERM, RhoGEF (Arhgef) and pleckstrin domain protein 1 (chondrocyte-derived)
FARP1 /// LOC782949	Bt.6660.1.S1_at	UP	1.8718642	
	Bt.6069.1.S1_at	UP	3.4447684	
GPR125	Bt.6298.1.S1_at	UP	2.8257174	G protein-coupled receptor 125
GEMIN6	Bt.22425.1.S1_at	UP	1.3152813	Gem (nuclear organelle) associated protein 6
	Bt.3293.1.S1_at	UP	7.9131937	
FOXK2	Bt.28111.1.S1_at	UP	1.6723496	forkhead box K2
LOC515356	Bt.6512.1.S1_at	UP	1.4458084	Similar to cytochrome b5 domain containing 2
CHEK1	Bt.10253.1.A1_at	UP	1.6940378	CHK1 checkpoint homolog (S. pombe)
ZMYND8	Bt.17848.1.S1_at	UP	1.5706017	zinc finger, MYND-type containing 8
WDR22	Bt.6716.1.S1_at	UP	1.8439071	WD repeat domain 22
KRT7	Bt.8105.1.S1_at	UP	6.926985	keratin 7
	Bt.12628.1.S1_at	UP	2.178504	
LOC100138962	Bt.2831.1.S1_at	UP	1.8535204	similar to Exosome component 5
ETS1	Bt.7459.1.S1_at	UP	2.0665107	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
ZNF462	Bt.26259.1.A1_at	UP	3.6473145	zinc finger protein 462
SLC4A7	Bt.27851.1.S1_at	UP	5.1720033	solute carrier family 4, sodium bicarbonate cotransporter, member 7
ALS2	Bt.27804.1.S1_at	UP	2.1971483	Similar to alsin
UBTF	Bt.28435.1.S1_at	UP	2.517623	upstream binding transcription factor, RNA polymerase I
	Bt.24769.1.S1_at	UP	1.783801	
PIAS2	Bt.6355.1.A1_at	UP	1.9870179	Protein inhibitor of activated STAT, 2
ZBTB9	Bt.22308.1.A1_at	UP	1.7784977	zinc finger and BTB domain containing 9
SORL1	Bt.17849.1.A1_at	UP	4.333339	sortilin-related receptor, L(DLR class) A repeats-containing
LOC782900	Bt.5888.1.S1_at	UP	1.4943916	similar to LOC440957 protein
APOOL	Bt.20915.1.S1_at	UP	1.9834743	apolipoprotein O-like
KCNK1	Bt.8363.1.A1_at	UP	2.0603437	potassium channel, subfamily K, member 1
	Bt.20481.1.S1_at	UP	1.5189538	
AKIRIN2	Bt.11326.1.S1_at	UP	1.1628512	akirin 2
FMR1	Bt.8504.1.A1_at	UP	1.4190019	Fragile X mental retardation 1
JAMP	Bt.24609.1.S1_at	UP	1.3928049	JNK1-associated membrane protein
	Bt.11292.1.S1_at	UP	1.7428716	
LOC514162	Bt.1048.1.S1_at	UP	1.3632576	similar to aurora borealis
ARIH2	Bt.22310.1.S1_at	UP	1.7036811	ariadne homolog 2 (Drosophila)
TSPAN2	Bt.24341.1.S1_at	UP	2.2418454	Tetraspanin 2
CNRIP1	Bt.8617.1.S1_at	UP	10.890575	cannabinoid receptor interacting protein 1
MGC140340	Bt.27885.1.S1_at	UP	1.4672711	hypothetical LOC614063
	Bt.20606.1.S1_at	UP	2.6767218	
MLL2	Bt.13707.1.A1_at	UP	1.9690592	myeloid/lymphoid or mixed-lineage leukemia 2
CSTB	Bt.24354.1.S1_at	UP	2.5563204	cystatin B (stefin B)
LOC100138954	Bt.28639.1.S1_at	UP	1.7870526	similar to ozf
CXXC5	Bt.20035.1.S1_at	UP	1.4722593	CXXC finger 5
EGFL8	Bt.26626.1.S1_at	UP	2.5754998	EGF-like-domain, multiple 8
AHCYL2	Bt.15900.1.A1_at	UP	5.301395	S-adenosylhomocysteine hydrolase-like 2
MYST2	Bt.9168.1.A1_at	UP	2.0302546	MYST histone acetyltransferase 2
	Bt.20187.1.S1_at	UP	2.8122299	
C26H10ORF119	Bt.28147.1.S1_at	UP	1.5855967	Chromosome 10 open reading frame 119 ortholog
HNF1B	Bt.26627.1.S1_at	UP	2.7535214	HNF1 homeobox B
GTF2H3	Bt.18638.1.S1_at	UP	1.3357586	General transcription factor IIH, polypeptide 3, 34kDa
	Bt.27936.1.S1_at	UP	1.1304374	
USPL1	Bt.17717.1.A1_at	UP	1.2480227	ubiquitin specific peptidase like 1
CD59	Bt.19770.1.S1_at	UP	2.111051	CD59 molecule, complement regulatory protein
GLMN	Bt.12850.1.S1_at	UP	1.4050193	glomulin, FKBP associated protein
	Bt.8317.1.S1_at	UP	2.0291708	
	Bt.10820.1.S1_at	UP	2.12221	
	Bt.28527.1.A1_at	UP	1.383549	
MPHOSPH8	Bt.9506.1.S1_at	UP	1.6068949	M-phase phosphoprotein 8
FRG1	Bt.6180.1.S1_at	UP	1.6815096	FSHD region gene 1
NOL10	Bt.21455.1.S1_at	UP	1.1912842	nucleolar protein 10
CCDC18	Bt.8410.1.S1_at	UP	1.7742	coiled-coil domain containing 18
	Bt.28044.1.S1_at	UP	1.5692009	
DCK	Bt.27090.1.S1_at	UP	1.7649485	deoxycytidine kinase
	Bt.27307.1.S1_at	UP	2.1718175	

ARL6	Bt.27912.1.A1_at	UP	1.6210619	ADP-ribosylation factor-like 6
LOC511229	Bt.22770.1.S1_at	UP	5.246864	similar to mCG142710
DTWD1	Bt.27055.1.S1_at	UP	1.7475867	DTW domain containing 1
RG9MTD1	Bt.28557.1.S1_at	UP	1.3284748	RNA (guanine-9-) methyltransferase domain containing 1
RBBP5	Bt.20127.1.S1_at	UP	2.0765257	Retinoblastoma binding protein 5
	Bt.23330.1.S1_at	UP	2.732444	
C5H12orf23	Bt.26837.1.S1_at	UP	1.6303067	chromosome 12 open reading frame 23 ortholog
	Bt.28470.1.A1_at	UP	1.8780991	
	Bt.14055.1.S1_at	UP	1.977943	
JARID2	Bt.24555.1.S1_at	UP	2.7579985	Jumonji, AT rich interactive domain 2
SULT1C2	Bt.9190.1.S1_at	UP	1.4954375	Sulfotransferase family, cytosolic, 1C, member 2
	Bt.14234.1.A1_at	UP	1.5691066	
FLAD1	Bt.24849.1.A1_at	UP	1.7193238	FAD1 flavin adenine dinucleotide synthetase homolog (S. cerevisiae)
TMEM216	Bt.17135.1.A1_at	UP	1.6890719	transmembrane protein 216
				similar to solute carrier family 7 (cationic amino acid transporter, y+ system), member 3 /// similar to solute carrier family 7 (cationic amino acid transporter, y+ system), member 3 /// similar to solute carrier family 7 (cationic amino acid transporter, y+ system), member 3
LOC517090 /// LOC528568 /Bt.9187.1.A1_at		UP	3.5905383	
	Bt.25192.1.S1_at	UP	2.011066	
	Bt.17756.1.A1_at	UP	2.310357	
RC3H2	Bt.762.2.S1_at	UP	1.571559	ring finger and CCCH-type zinc finger domains 2
LOC511889	Bt.3991.1.S1_at	UP	1.4382399	similar to centaurin delta 2
NINJ1	Bt.6219.1.S1_at	UP	2.5103908	ninjurin 1
MRPL49	Bt.21430.2.A1_at	UP	1.2954688	mitochondrial ribosomal protein L49
NES	Bt.2121.1.S1_at	UP	4.3876753	nestin
LOC618886	Bt.10956.2.S1_at	UP	1.6020405	Similar to cDNA sequence BC004004
	Bt.20289.1.S1_at	UP	2.4822865	
	Bt.942.1.S1_at	UP	2.3915	
APBB1	Bt.2217.1.S1_at	UP	1.5479957	amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)
LOC516579	Bt.21546.1.S1_at	UP	1.3451315	similar to ATPase, Class II, type 9A
GRLF1	Bt.12496.1.S1_at	UP	1.4318422	glucocorticoid receptor DNA binding factor 1
AIDA	Bt.4025.1.S1_at	UP	1.5887727	Axin interactor, dorsalization associated
TRABD	Bt.16469.1.S1_at	UP	1.9236473	TraB domain containing
TRNAU1AP	Bt.7316.2.S1_a_at	UP	1.7272186	tRNA selenocysteine 1 associated protein 1
IPO4	Bt.26290.2.S1_a_at	UP	4.843438	importin 4
	Bt.5911.1.S1_at	UP	1.8723221	
WDR34	Bt.2035.1.S1_at	UP	2.4542682	WD repeat domain 34
PA2G4	Bt.4896.1.S1_at	UP	1.4524062	Proliferation-associated 2G4, 38kDa
LPIN2	Bt.8431.1.S1_at	UP	1.9107463	Lipin 2
TFCP2	Bt.22410.1.S1_at	UP	1.386137	transcription factor CP2
LRRC8D	Bt.17151.1.S1_at	UP	2.2093616	Leucine rich repeat containing 8 family, member D
PRCC	Bt.5156.1.S1_at	UP	1.5043607	papillary renal cell carcinoma (translocation-associated)
PLEKHA2	Bt.22283.1.S1_at	UP	2.8593404	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2
CDC42EP4	Bt.20490.1.S1_at	UP	3.9912694	CDC42 effector protein (Rho GTPase binding) 4
SMG5	Bt.4260.1.S1_at	UP	1.4954818	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)
SBDS	Bt.12631.3.S1_at	UP	1.174214	Shwachman-Bodian-Diamond syndrome
AARS	Bt.12364.1.S1_at	UP	1.253197	alanyl-tRNA synthetase
ENY2	Bt.2223.1.S1_at	UP	1.5891736	enhancer of yellow 2 homolog (Drosophila)
NOL11	Bt.24607.1.S1_at	UP	1.3421197	nucleolar protein 11
HNRNPA0	Bt.21790.1.S1_at	UP	1.6619247	Heterogeneous nuclear ribonucleoprotein A0
AGPS	Bt.2048.1.S1_at	UP	1.378888	Alkylglycerone phosphate synthase
	Bt.9544.1.S1_at	UP	3.1918736	
	Bt.20977.1.S1_at	UP	1.5104806	
	Bt.8039.2.S1_a_at	UP	1.6695017	
	Bt.20143.2.S1_at	UP	2.1495156	
RTN4IP1	Bt.21301.1.S1_a_at	UP	1.6979905	reticulon 4 interacting protein 1
JARID1C	Bt.1277.1.S1_a_at	UP	1.3066283	Jumonji, AT rich interactive domain 1C
LOC506577	Bt.4327.1.S1_at	UP	1.333774	similar to ubiquitin associated protein 2
MGC127733	Bt.9019.1.S1_at	UP	1.5578748	hypothetical protein LOC614296
LOC785659	Bt.17299.1.A1_at	UP	1.4986954	similar to seven in absentia homolog 2
	Bt.2152.1.S1_at	UP	2.3872101	
DEK	Bt.1167.1.S1_at	UP	1.3807915	DEK oncogene
UBE2G2	Bt.7786.1.S1_at	UP	1.8212234	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)
GATAD2A	Bt.7614.1.S1_at	UP	1.312408	GATA zinc finger domain containing 2A
SH3GL2	Bt.2215.1.S1_at	UP	1.9328738	SH3-domain GRB2-like 2
	Bt.29900.1.S1_at	UP	1.7999423	
AHCYL2	Bt.15900.2.S1_at	UP	5.7064896	S-adenosylhomocysteine hydrolase-like 2
SAFB2	Bt.8079.2.S1_a_at	UP	1.7414875	scaffold attachment factor B2
C10H14ORF169	Bt.10900.1.S1_at	UP	1.9699323	chromosome 14 open reading frame 169 ortholog
FNTB	Bt.26841.1.A1_at	UP	3.3890455	farnesyltransferase, CAAAX box, beta
ARG2	Bt.8624.1.S1_at	UP	1.7414131	arginase, type II
DUS4L	Bt.13512.2.S1_at	UP	2.0944347	dihydrouridine synthase 4-like (S. cerevisiae)
	Bt.6520.1.A1_at	UP	1.9985918	
	Bt.944.1.S1_at	UP	3.707987	
PRKD3	Bt.6225.2.A1_at	UP	3.436458	protein kinase D3
	Bt.1313.1.S1_at	UP	1.6394833	
KIF22	Bt.22120.1.S1_at	UP	1.2551386	kinesin family member 22
PWP2	Bt.21538.1.S1_at	UP	1.47995	PWP2 periodic tryptophan protein homolog (yeast)
CENPF	Bt.12328.1.S1_at	UP	1.4676684	Centromere protein F, 350/400ka (mitosin)
	Bt.8866.1.S1_at	UP	2.094132	
MGA	Bt.24350.1.A1_at	UP	1.9406633	MAX gene associated
LOC523799 /// LOC781315	Bt.13427.1.S1_at	UP	1.5235937	similar to CG4877 CG4877-PA /// similar to C5orf25 protein
BAZ1B	Bt.4580.1.A1_at	UP	1.5745375	bromodomain adjacent to zinc finger domain, 1B
	Bt.1526.1.S1_at	UP	1.960943	
	Bt.8894.1.S1_at	UP	4.0744715	
BPTF	Bt.21715.1.S1_at	UP	2.0558891	bromodomain PHD finger transcription factor
NOLC1	Bt.4501.1.S1_at	UP	1.946883	Nucleolar and coiled-body phosphoprotein 1
SYF2	Bt.28190.1.S1_at	UP	1.6075335	SYF2 homolog, RNA splicing factor (S. cerevisiae)
ZNF639	Bt.14360.1.S1_at	UP	1.5879929	Zinc finger protein 639
OSBPL6	Bt.13466.1.S1_at	UP	2.71561	oxysterol binding protein-like 6
	Bt.13472.1.S1_at	UP	1.8470467	
MCM6	Bt.21433.1.S1_at	UP	1.3403654	Minichromosome maintenance complex component 6
	Bt.25096.1.S1_at	UP	1.5467474	
PFKFB4	Bt.659.2.S1_at	UP	4.594434	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4
CYGB	Bt.8329.1.S1_at	UP	2.360188	cytoglobin
LOC616726	Bt.6964.2.A1_at	UP	1.2189175	similar to chromosome 9 open reading frame 97
	Bt.17502.1.A1_at	UP	2.5196054	
	Bt.22620.2.A1_at	UP	1.5907447	
	Bt.21736.1.A1_at	UP	2.076343	
GINS3	Bt.14379.1.A1_at	UP	1.7394198	GINS complex subunit 3 (Psf3 homolog)
PALB2	Bt.18229.1.A1_at	UP	1.6767226	partner and localizer of BRCA2
SNRPG	Bt.9750.2.S1_a_at	UP	1.5344521	small nuclear ribonucleoprotein polypeptide G
	Bt.22095.1.S1_at	UP	2.9542005	
ANP32B	Bt.7074.1.A1_at	UP	1.3376819	Acidic (leucine-rich) nuclear phosphoprotein 32 family, member B

	Bt.19737.2.S1_at	UP	2.0667007	
LOC782307	Bt.14109.1.S1_at	UP	1.6418519	hypothetical LOC782307
LGALS8	Bt.8353.2.S1_at	UP	2.0254118	Lectin, galactoside-binding, soluble, 8
GRSF1	Bt.14193.1.A1_at	UP	2.0151062	G-rich RNA sequence binding factor 1
CRNKL1	Bt.9702.1.S1_at	UP	1.4368808	Crooked neck pre-mRNA splicing factor-like 1 (Drosophila)
	Bt.21981.3.S1_at	UP	5.8621435	
C1H21ORF70	Bt.27363.1.S1_at	UP	1.5008593	chromosome 21 open reading frame 70 ortholog
CCDC138	Bt.13385.1.A1_at	UP	1.4026473	coiled-coil domain containing 138
WDR54	Bt.28395.1.S1_at	UP	2.2766285	WD repeat domain 54
LOC508720	Bt.24665.1.S1_at	UP	8.320769	similar to class II transactivator
RANBP3L	Bt.23806.1.A1_at	UP	1.9370413	RAN binding protein 3-like
LOC534284	Bt.21604.1.A1_at	UP	1.6859474	similar to SETX protein
STBD1	Bt.8441.1.A1_at	UP	2.7670772	starch binding domain 1
LOC781790	Bt.4247.1.S1_at	UP	1.8799195	similar to hCG2010338
	Bt.4265.1.S1_at	UP	1.5127829	
FRG1	Bt.6180.2.S1_at	UP	1.3228317	FSHD region gene 1
RBM9	Bt.5821.1.A1_at	UP	1.9646411	RNA binding motif protein 9
	Bt.3945.1.S1_at	UP	5.660492	
BEX2	Bt.16678.1.S1_at	UP	1.980443	brain expressed X-linked 2
MRPS9	Bt.24624.3.S1_at	UP	1.9453202	mitochondrial ribosomal protein S9
RPL7L1	Bt.14159.1.A1_at	UP	1.9465326	Ribosomal protein L7-like 1
	Bt.1296.1.S1_at	UP	2.053905	
TSG118	Bt.1529.2.A1_at	UP	1.7567598	Testis-specific gene 118 protein
TMLHE	Bt.21098.3.S1_at	UP	1.5676278	trimethyllysine hydroxylase, epsilon
GINS3	Bt.14379.2.S1_at	UP	1.5925127	GINS complex subunit 3 (Psf3 homolog)
	Bt.27354.1.S1_at	UP	1.6257896	
RTF1	Bt.28592.1.S1_at	UP	2.258232	Rtf1, Paf1/RNA polymerase II complex component, homolog (S.
LOC510240	Bt.6982.1.S1_at	UP	1.9566972	similar to RRP1-like protein B
WDR75	Bt.28680.1.S1_at	UP	1.5161617	WD repeat domain 75
FBXO5	Bt.986.1.A1_at	UP	1.6878167	F-box protein 5
KDM2B	Bt.24595.1.S1_at	UP	2.6018772	lysine (K)-specific demethylase 2B
PDRG1	Bt.13801.1.S1_at	UP	2.0305824	p53 and DNA damage regulated 1
FBXL20	Bt.20361.2.A1_at	UP	1.475249	F-box and leucine-rich repeat protein 20
PPP2R5E	Bt.1549.2.S1_at	UP	1.4678463	protein phosphatase 2, regulatory subunit B', epsilon isoform
	Bt.9724.1.S1_at	UP	1.4869285	
	Bt.3235.1.A1_at	UP	1.9285266	
GCFC	Bt.25234.1.S1_at	UP	1.745817	GC-rich sequence DNA-binding factor homolog
	Bt.9772.1.S1_at	UP	2.3835993	
FAM115A	Bt.16636.1.S1_at	UP	2.4801848	Protein FAM115A
CBX6	Bt.25966.1.A1_at	UP	1.8161433	chromobox homolog 6
TSG118	Bt.16517.2.S1_at	UP	1.7888509	Testis-specific gene 118 protein
	Bt.27937.2.S1_at	UP	3.4399207	
	Bt.9785.1.S1_at	UP	1.4644189	
	Bt.918.1.A1_at	UP	2.4534805	
NNT	Bt.1403.1.S1_at	UP	4.525461	nicotinamide nucleotide transhydrogenase
STARD3NL	Bt.27269.2.S1_at	UP	2.1698308	STARD3 N-terminal like
BYSL	Bt.12969.2.A1_at	UP	1.7099168	bystin-like
	Bt.17718.2.S1_at	UP	2.0883744	
	Bt.7041.3.A1_at	UP	2.2453432	
	Bt.18900.1.S1_at	UP	3.2075677	
	Bt.1296.2.S1_at	UP	2.3110378	
LOC100139742	Bt.13965.1.S1_at	UP	2.2029605	similar to WNK lysine deficient protein kinase 4
PUS7	Bt.2503.1.S1_at	UP	2.7392807	pseudouridylate synthase 7 homolog (S. cerevisiae)
TCOF1	Bt.12734.2.A1_s_at	UP	1.8460362	Treacher Collins-Franceschetti syndrome 1
	Bt.18996.1.A1_at	UP	1.9366817	
BUD13	Bt.26848.1.S1_at	UP	1.4902983	BUD13 homolog (S. cerevisiae)
	Bt.22600.1.A1_at	UP	2.0996392	
	Bt.27612.1.A1_at	UP	1.3100841	
PUS7	Bt.28327.1.A1_at	UP	2.3756318	pseudouridylate synthase 7 homolog (S. cerevisiae)
	Bt.25445.1.A1_at	UP	2.2737772	
PDE1B	Bt.25775.1.A1_at	UP	2.755028	Phosphodiesterase 1B, calmodulin-dependent
SERF1B	Bt.26048.1.A1_at	UP	1.6907502	small EDRK-rich factor 1B (centromeric)
	Bt.17425.1.A1_at	UP	1.6502254	
	Bt.16947.2.A1_at	UP	1.6253655	
ZBED5	Bt.28843.1.A1_at	UP	2.2202108	zinc finger, BED-type containing 5
	Bt.29486.1.A1_at	UP	2.8860767	
	Bt.29098.1.A1_at	UP	1.7809482	
	Bt.29380.1.A1_at	UP	2.6446	
	Bt.29421.1.A1_at	UP	1.885502	
LOC616546	Bt.13722.2.A1_at	UP	1.3183668	Similar to Kinesin-Like Protein family member (klp-6)
NUFIP2	Bt.25725.1.A1_at	UP	1.4645582	nuclear fragile X mental retardation protein interacting protein 2
TRPV1	Bt.25904.1.A1_at	UP	3.6253088	transient receptor potential cation channel, subfamily V, member 1
ZNF462	Bt.25937.1.A1_at	UP	5.363155	zinc finger protein 462
	Bt.27559.1.A1_at	UP	2.1400619	
	Bt.27639.2.A1_at	UP	2.2064528	
SH3BGRL	Bt.27696.1.A1_at	UP	2.7894697	SH3 domain binding glutamic acid-rich protein like
	Bt.27747.1.A1_at	UP	1.6370187	
MDH2	Bt.27775.1.A1_at	UP	1.5615379	Malate dehydrogenase 2, NAD (mitochondrial)
	Bt.28922.1.A1_at	UP	5.221679	
	Bt.24165.1.A1_at	UP	1.6219916	
	Bt.13608.1.A1_at	UP	1.6429212	
	Bt.23706.1.A1_at	UP	1.7758915	
	Bt.3832.1.A1_at	UP	1.7525663	
	Bt.25020.1.A1_at	UP	1.702737	
SFRS2IP	Bt.26408.1.A1_at	UP	2.1538231	Splicing factor, arginine/serine-rich 2, interacting protein
KIT	Bt.26445.1.A1_at	UP	6.81256	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
ZNF572	Bt.26401.1.A1_at	UP	1.6005727	Zinc finger protein 572
	Bt.26415.1.A1_at	UP	1.7226673	
	Bt.15330.1.A1_at	UP	1.849545	
	Bt.16599.1.A1_at	UP	3.633031	
LOC617079	Bt.16933.2.A1_at	UP	1.9434222	similar to ATP-binding cassette transporter C4
	Bt.17250.1.A1_at	UP	1.7342644	
ZNF668	Bt.17732.1.A1_at	UP	1.4522858	zinc finger protein 668
	Bt.18331.1.A1_at	UP	2.4327571	
	Bt.18353.1.A1_at	UP	3.3123114	
	Bt.18824.1.A1_at	UP	3.2575274	
	Bt.19018.1.A1_at	UP	2.515825	
	Bt.19323.1.A1_at	UP	4.0988135	
	Bt.19587.1.A1_at	UP	2.2734118	
	Bt.19637.1.A1_at	UP	1.4120628	
	Bt.19839.1.A1_at	UP	2.0778341	
	Bt.19867.1.A1_at	UP	1.9134892	
CTGF	Bt.5240.1.S1_at	DOWN	2.6529555	connective tissue growth factor
ASH1L	Bt.5037.1.S2_at	DOWN	1.9959996	ash1 (absent, small, or homeotic)-like (Drosophila)
FABP5	Bt.22869.1.S2_at	DOWN	2.2494333	fatty acid binding protein 5 (psoriasis-associated)

ATP6AP1	Bt.4442.1.S1_at	DOWN	1.6708803	ATPase, H ⁺ transporting, lysosomal accessory protein 1
ANXA8	Bt.5026.1.S1_at	DOWN	1.4920108	annexin A8
ACSS1	Bt.15996.1.S1_at	DOWN	1.8075707	acyl-CoA synthetase short-chain family member 1
EXT2	Bt.5113.1.S1_at	DOWN	1.2846987	exostoses (multiple) 2
CRYL1	Bt.3220.1.S1_at	DOWN	1.3864934	crystallin, lambda 1
CTSB	Bt.393.1.S2_at	DOWN	1.5356691	cathepsin B
GPX4	Bt.4205.1.S1_at	DOWN	1.3631213	glutathione peroxidase 4 (phospholipid hydroperoxidase)
B4GALT1	Bt.5141.1.S2_at	DOWN	1.5822043	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
ITGB5	Bt.5536.1.S1_at	DOWN	1.8422296	integrin, beta 5
OSTF1	Bt.2888.1.S1_at	DOWN	1.3371762	osteoclast stimulating factor 1
CAST	Bt.4738.1.S2_at	DOWN	1.9407903	calpastatin
CAST	Bt.4738.1.S1_at	DOWN	2.4746943	calpastatin
SEPP1	Bt.2220.2.A1_a_at	DOWN	1.2777752	selenoprotein P, plasma, 1
PDIA3	Bt.2562.1.S1_at	DOWN	1.8673515	protein disulfide isomerase family A, member 3
PSEN1	Bt.4948.1.S1_at	DOWN	1.4347351	presenilin 1
GPLD1	Bt.452.1.S1_at	DOWN	1.8470619	glycosylphosphatidylinositol specific phospholipase D1
PECAM1	Bt.4653.1.S2_at	DOWN	2.0517883	platelet/endothelial cell adhesion molecule
STAR	Bt.4709.1.S1_at	DOWN	3.7936351	steroidogenic acute regulatory protein
UBQLN1	Bt.8857.1.S1_at	DOWN	1.744002	ubiquilin 1
RAP1A	Bt.10622.1.S2_at	DOWN	1.4768074	RAP1A, member of RAS oncogene family
ITPR3	Bt.9025.1.S1_at	DOWN	2.3199725	inositol 1,4,5-trisphosphate receptor, type 3
ARRB1	Bt.4018.1.S1_at	DOWN	1.8126493	arrestin, beta 1
SVIL	Bt.4329.1.S1_at	DOWN	1.6585087	supervillin
CALD1	Bt.355.1.S1_at	DOWN	1.7715559	caldesmon 1
ADAM10	Bt.4781.1.S1_at	DOWN	1.9810265	ADAM metalloproteinase domain 10
ITFG2	Bt.4745.1.S1_at	DOWN	1.4094827	integrin alpha FG-GAP repeat containing 2
GALNT1	Bt.2582.1.S1_at	DOWN	1.6235178	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1 (GalNAc-T1)
VEGFA	Bt.4138.1.S1_a_at	DOWN	2.0610006	vascular endothelial growth factor A
ATP6V1A	Bt.4773.3.S1_a_at	DOWN	1.521501	ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A
CPE	Bt.14143.1.S1_at	DOWN	3.4720907	carboxypeptidase E
ATP8A1	BtAffx.1.2.S1_at	DOWN	2.479855	ATPase, aminophospholipid transporter (APLT), Class I, type 8A,
ATP6V1G1	Bt.1990.1.S1_at	DOWN	1.1930757	ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G1
ATP6V1H	Bt.4955.2.S1_a_at	DOWN	1.5542116	ATPase, H ⁺ transporting, lysosomal 50/57kDa, V1 subunit H
NPC1	Bt.7157.1.S1_at	DOWN	1.7801667	Niemann-Pick disease, type C1
SLC1A1	Bt.557.1.S1_at	DOWN	2.204799	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1
CALR	Bt.7676.2.S1_a_at	DOWN	1.9179691	calreticulin
CD46	Bt.22840.2.S1_at	DOWN	1.4290129	CD46 molecule, complement regulatory protein
LAMP1	Bt.24674.1.A1_s_at	DOWN	1.4311601	lysosomal-associated membrane protein 1
DSC2	Bt.4107.1.S1_at	DOWN	2.2098973	desmocollin 2
IFNT	Bt.328.1.S1_at	DOWN	2.4884112	interferon tau
MET	Bt.13084.1.S1_at	DOWN	2.36769	met proto-oncogene (hepatocyte growth factor receptor)
ATP6V1A	Bt.4773.2.S1_a_at	DOWN	1.4607068	ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A
IGHM	Bt.7783.1.S1_a_at	DOWN	2.2107096	immunoglobulin heavy constant mu
SI00A11	Bt.3750.1.S1_at	DOWN	1.9711928	SI00 calcium binding protein A11 (calgizzarin)
ADIPOR1	Bt.8787.1.S1_at	DOWN	1.4306695	adiponectin receptor 1
VEGFA	Bt.4138.2.S1_at	DOWN	1.828146	vascular endothelial growth factor A
P2RX4	Bt.15997.1.S1_at	DOWN	2.5303035	purinergic receptor P2X, ligand-gated ion channel, 4
ADIPOR2	Bt.805.1.S1_at	DOWN	1.7589824	adiponectin receptor 2
CLIC4	Bt.2563.1.S1_at	DOWN	1.4592851	chloride intracellular channel 4
MBP	Bt.6405.1.S1_at	DOWN	1.3095057	myelin basic protein
B4GALT5	Bt.13147.1.S1_at	DOWN	1.9644166	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
TMBIM6	Bt.2416.1.S1_at	DOWN	1.5144912	transmembrane BAX inhibitor motif containing 6
RNH1	Bt.5175.1.S1_at	DOWN	1.5161153	ribonuclease/angiogenesis inhibitor 1
CHCHD5	Bt.3035.2.S1_at	DOWN	2.085305	Coiled-coil-helix-coiled-coil-helix domain containing 5
HSD17B11	Bt.11993.1.S1_at	DOWN	1.6021389	hydroxysteroid (17-beta) dehydrogenase 11
SCP2	Bt.11188.1.S1_at	DOWN	1.5049347	sterol carrier protein 2
COPA	Bt.7428.1.S1_at	DOWN	1.2152469	coatamer protein complex, subunit alpha
NADK	Bt.5399.1.S1_at	DOWN	1.458517	NAD kinase
ARPC1A	Bt.1766.1.S1_at	DOWN	1.2749895	actin related protein 2/3 complex, subunit 1A, 41kDa
NFE2L2	Bt.5305.1.A1_at	DOWN	1.3496696	nuclear factor (erythroid-derived 2)-like 2
ASL	Bt.10013.1.S1_at	DOWN	1.7163666	argininosuccinate lyase
ATP1B3	Bt.9728.1.S1_at	DOWN	1.3486383	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide
PTTG1IP	Bt.7826.1.S1_at	DOWN	1.6552004	pituitary tumor-transforming 1 interacting protein
ALDH3A2	Bt.5487.1.S1_at	DOWN	1.6218356	aldehyde dehydrogenase 3 family, member A2
CALM1	Bt.926.1.S1_at	DOWN	1.3958293	calmodulin 1 (phosphorylase kinase, delta)
LOC788353	Bt.20503.1.A1_at	DOWN	1.3716062	Similar to Uncharacterized protein KIAA1522 homolog
CREG1	Bt.9283.1.A1_at	DOWN	1.6338857	cellular repressor of E1A-stimulated genes 1
YIPF5	Bt.10005.1.S1_at	DOWN	1.2678531	Yip1 domain family, member 5
MYO1B	Bt.979.1.A1_at	DOWN	1.5107577	myosin IB
DERL2	Bt.5750.1.S1_at	DOWN	1.2687578	Der1-like domain family, member 2
FBLIM1	Bt.2860.1.S1_at	DOWN	1.9495292	filamin binding LIM protein 1
SH3GL1	Bt.5017.1.S1_at	DOWN	1.4105245	SH3-domain GRB2-like 1
PGRMC2	Bt.6721.1.S1_at	DOWN	1.7048144	progesterone receptor membrane component 2
NFE2L1	Bt.12885.2.S1_at	DOWN	1.6017995	nuclear factor (erythroid-derived 2)-like 1
PEX19	Bt.12424.1.S1_at	DOWN	1.1678792	peroxisomal biogenesis factor 19
GPA1	Bt.5261.1.S1_at	DOWN	1.4894011	glycosylphosphatidylinositol anchor attachment protein 1 homolog
HN1	Bt.23106.1.S1_at	DOWN	1.426361	hematological and neurological expressed 1
ROGDI	Bt.7385.1.S1_at	DOWN	1.8590401	rogdi homolog (Drosophila)
ALAD	Bt.9585.1.S1_at	DOWN	1.2180152	aminolevulinate, delta-, dehydratase
	Bt.6987.1.S1_at	DOWN	1.997804	
TMX2	Bt.3904.1.S1_at	DOWN	1.4494119	thioredoxin-related transmembrane protein 2
LOC614824	Bt.1522.1.A1_at	DOWN	2.2386224	similar to Putative hexokinase HKDC1 (Hexokinase domain-containing protein 1)
TAP1	Bt.20416.1.S1_at	DOWN	1.741567	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
TMEM66	Bt.13337.1.A1_at	DOWN	1.3696908	transmembrane protein 66
DEGS1	Bt.6334.1.A1_at	DOWN	1.3519948	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)
RAB24	Bt.5038.5.S1_at	DOWN	1.7169068	RAB24, member RAS oncogene family
DSP	Bt.1818.1.S1_at	DOWN	2.163585	desmoplakin
FASN	Bt.22854.2.S1_at	DOWN	1.5198812	fatty acid synthase
VPS16A	Bt.1535.1.S1_at	DOWN	1.1484065	vacuolar protein sorting 16 homolog A (S. cerevisiae)
TMEM49	Bt.3525.1.S1_at	DOWN	1.3762963	transmembrane protein 49
ASRGL1	Bt.685.1.A1_at	DOWN	1.2594713	Asparaginase like 1
C10H15orf24	Bt.1692.1.S1_at	DOWN	1.3793623	chromosome 15 open reading frame 24 ortholog
DNM2	Bt.8826.1.S1_at	DOWN	1.8081089	dynamitin 2
JUP	Bt.20230.1.S1_at	DOWN	1.6478195	junction plakoglobin
NEDD4L	Bt.3892.1.S1_at	DOWN	2.1756318	neural precursor cell expressed, developmentally down-regulated 4-like
TACSTD2	Bt.1694.1.S1_at	DOWN	1.8239295	tumor-associated calcium signal transducer 2
DCXR	Bt.3200.1.S1_at	DOWN	1.925596	dicarbonyl/L-xylulose reductase
TMED10	Bt.21740.1.S1_at	DOWN	1.4036148	transmembrane emp24-like trafficking protein 10 (yeast)
ULK3	Bt.5207.1.S1_at	DOWN	1.3396451	unc-51-like kinase 3 (C. elegans)
	Bt.1267.1.S1_at	DOWN	1.5204806	
LZTR1	Bt.10241.1.S1_at	DOWN	1.669972	leucine-zipper-like transcription regulator 1
SLC39A9	Bt.27129.1.S1_at	DOWN	1.3153025	Solute carrier family 39 (zinc transporter), member 9

	Bt.7784.1.S1_at	DOWN	1.5261147	
MPPE1	Bt.1797.1.S1_at	DOWN	1.7855573	metallophosphoesterase 1
HYAL1	Bt.4740.1.S1_at	DOWN	2.2580638	hyaluronoglucosaminidase 1
	Bt.6726.1.S1_at	DOWN	1.5765947	
GPR177	Bt.21227.1.A1_at	DOWN	1.9419034	G protein-coupled receptor 177
	Bt.27171.1.A1_at	DOWN	2.3997314	
SPTAN1	Bt.12505.1.S1_at	DOWN	1.8833058	spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)
TUBB2A	Bt.5445.2.A1_at	DOWN	2.778604	tubulin, beta 2A
GANAB	Bt.4014.1.S1_s_at	DOWN	1.7238543	glucosidase, alpha; neutral AB
LRP10	Bt.15938.1.S1_at	DOWN	1.7146467	low density lipoprotein receptor-related protein 10
				cysteine conjugate-beta lyase, cytoplasmic /// similar to cytoplasmic
				cysteine conjugate-beta lyase /// similar to Cysteine conjugate-beta
				lyase; cytoplasmic (glutamine transaminase K, kyneurenine
				aminotransferase)
CCBL1 /// LOC781863 /// LBt.4981.1.S1_at		DOWN	2.3350623	
	Bt.24321.1.S1_at	DOWN	1.4547702	
GDE1	Bt.24945.1.S1_at	DOWN	1.5764562	glycerophosphodiester phosphodiesterase 1
	Bt.1539.1.S1_at	DOWN	1.8989938	
P4HB	Bt.3162.1.S1_at	DOWN	1.3256094	prolyl 4-hydroxylase, beta polypeptide
COMT	Bt.8578.1.S1_at	DOWN	2.233724	catechol-O-methyltransferase
ACLY	Bt.12559.1.S1_at	DOWN	1.391602	ATP citrate lyase
PTPRF	Bt.5379.1.S1_at	DOWN	1.9711863	protein tyrosine phosphatase, receptor type, F
PLS1	Bt.28171.1.S1_at	DOWN	1.5862652	plastin 1 (I isoform)
ARSA	Bt.1076.1.S1_at	DOWN	2.0689003	arylsulfatase A
WSB1	Bt.20080.1.S1_at	DOWN	1.561856	WD repeat and SOCS box-containing 1
EXOC7	Bt.1086.1.S1_at	DOWN	1.4987148	exocyst complex component 7
C16orf5	Bt.9310.1.S1_at	DOWN	1.5310984	chromosome 16 open reading frame 5
AP2B1	Bt.3175.1.S1_at	DOWN	1.4608893	adaptor-related protein complex 2, beta 1 subunit
METTL13	Bt.21597.1.S1_at	DOWN	1.6543012	methyltransferase like 13
RMND5B	Bt.5446.1.S1_at	DOWN	1.5743785	required for meiotic nuclear division 5 homolog B (S. cerevisiae)
STAMBP	Bt.9164.1.A1_at	DOWN	1.3143907	STAM binding protein
ERLIN2	Bt.1734.1.S1_at	DOWN	1.6494939	ER lipid raft associated 2
ZC3HC1	Bt.4674.1.S1_at	DOWN	1.3031659	zinc finger, C3HC-type containing 1
LIMA1	Bt.10730.1.S1_at	DOWN	2.4083674	LIM domain and actin binding 1
DSG2	Bt.16441.1.A1_at	DOWN	1.3024259	desmoglein 2
M6PRBP1	Bt.21743.1.A1_at	DOWN	1.5212168	mannose-6-phosphate receptor binding protein 1
NAGA	Bt.3999.1.S1_at	DOWN	2.3568752	N-acetylgalactosaminidase, alpha-
HMOX2	Bt.3226.1.S1_at	DOWN	2.1333392	heme oxygenase (decycling) 2
BAIAP2	Bt.5610.1.S1_at	DOWN	1.8249531	BAI1-associated protein 2
CGN	Bt.11656.1.S1_at	DOWN	1.963061	cingulin
TGOLN2	Bt.11260.2.S1_at	DOWN	1.5742949	trans-golgi network protein 2
ZDHC16	Bt.1388.1.S1_at	DOWN	1.8932925	zinc finger, DHHC-type containing 16
SEC14L1	Bt.21705.1.S1_at	DOWN	1.5607234	SEC14-like 1 (S. cerevisiae)
SH3YL1	Bt.5323.1.S1_at	DOWN	1.700425	SH3 domain containing, Ysc84-like 1 (S. cerevisiae)
TMEM86A	Bt.25695.1.S1_at	DOWN	2.0056937	transmembrane protein 86A
LOC504513	Bt.3415.1.A1_at	DOWN	3.64006	hypothetical LOC504513
DTNBP1	Bt.20225.1.S1_at	DOWN	1.6039702	dystrobrevin binding protein 1
MFSD10	Bt.23518.2.S1_at	DOWN	1.5565016	major facilitator superfamily domain containing 10
				syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic
SNTB2	Bt.13371.1.S1_at	DOWN	1.73674	component 2)
EDEM3	Bt.14902.1.A1_at	DOWN	1.4652526	ER degradation enhancer, mannosidase alpha-like 3
ECOP	Bt.5001.1.A1_at	DOWN	2.4153378	EGFR-coamplified and overexpressed protein
S100A14	Bt.21342.1.S1_at	DOWN	1.8953875	S100 calcium binding protein A14
GADD45B	Bt.4371.1.S1_at	DOWN	1.656961	growth arrest and DNA-damage-inducible, beta
TEAD3	Bt.11267.1.S1_at	DOWN	1.5917332	TEA domain family member 3
ZFYVE21	Bt.21805.1.S1_at	DOWN	1.6599071	zinc finger, FYVE domain containing 21
	Bt.8371.1.S1_at	DOWN	1.9428697	
SLC15A4	Bt.20185.1.A1_at	DOWN	1.9688747	solute carrier family 15, member 4
PKP2	Bt.21547.1.A1_at	DOWN	1.5999541	plakophilin 2
	Bt.8887.1.S1_at	DOWN	1.5927552	
MTMR11	Bt.16096.1.A1_at	DOWN	2.1713698	myotubularin related protein 11
RNASEK	Bt.4634.2.S1_a_at	DOWN	1.286591	ribonuclease, RNase K
PRUNE2	Bt.18615.1.A1_at	DOWN	1.2544513	prune homolog 2 (Drosophila)
SIGIRR	Bt.1676.1.A1_at	DOWN	2.0151944	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
PERP	Bt.9633.1.S1_at	DOWN	1.5002335	PERP, TP53 apoptosis effector
RILPL1	Bt.20355.1.S1_at	DOWN	1.7254251	Rab interacting lysosomal protein-like 1
	Bt.20450.1.S1_at	DOWN	1.5524522	
	Bt.11714.1.S1_at	DOWN	1.316042	
TMEM159	Bt.14626.1.S1_a_at	DOWN	1.9505084	transmembrane protein 159
PITPNM1	Bt.18627.1.S1_at	DOWN	2.101663	phosphatidylinositol transfer protein, membrane-associated 1
TMEM125	Bt.827.1.A1_at	DOWN	2.2719214	transmembrane protein 125
GRHL1	Bt.13545.1.S1_at	DOWN	2.1789079	grainyhead-like 1 (Drosophila)
TMEM165	Bt.4994.1.S1_at	DOWN	1.8030546	transmembrane protein 165
ASPH	Bt.8362.1.A1_at	DOWN	2.0260458	Aspartate beta-hydroxylase
	Bt.22103.1.S1_at	DOWN	1.79247	
TMEM79	Bt.6386.1.A1_at	DOWN	1.7058747	transmembrane protein 79
	Bt.4959.1.A1_at	DOWN	2.2739506	
WNT2B	Bt.27254.1.A1_at	DOWN	3.3324275	wingless-type MMTV integration site family, member 2B
ENDOD1	Bt.14136.1.A1_at	DOWN	1.9258926	endonuclease domain containing 1
	Bt.23883.1.A1_at	DOWN	1.2419237	
SMPD3	Bt.3716.1.A1_at	DOWN	2.4458213	sphingomyelin phosphodiesterase 3, neutral membrane (neutral
				sphingomyelinase II)
SLC24A6	Bt.6537.1.S1_at	DOWN	2.0957248	Solute carrier family 24 (sodium/potassium/calcium exchanger), member
CARM1	Bt.5813.2.S1_at	DOWN	1.5941691	coactivator-associated arginine methyltransferase 1
EFHD2	Bt.15561.1.S1_at	DOWN	1.5785688	EF-hand domain family, member D2
JAGN1	Bt.7843.1.S1_at	DOWN	1.5112219	jagunal homolog 1 (Drosophila)
FBXW2	Bt.12194.1.S1_at	DOWN	1.3899037	F-box and WD repeat domain containing 2
SLC40A1	Bt.22759.1.S1_at	DOWN	1.9579818	solute carrier family 40 (iron-regulated transporter), member 1
				SWI/SNF related, matrix associated, actin dependent regulator of
SMARCA4	Bt.1054.1.S1_at	DOWN	1.5439818	chromatin, subfamily a, member 4
				hypothetical protein LOC100125581
MLH1	Bt.16761.2.S1_at	DOWN	1.5142113	mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)
NUCB2	Bt.5658.1.S1_s_at	DOWN	1.7012259	nucleobindin 2
ATP6V0A4	Bt.4167.1.S1_at	DOWN	2.8775222	ATPase, H+ transporting, lysosomal V0 subunit a4
	Bt.22301.1.S1_at	DOWN	1.4215895	
CYR61	Bt.10166.1.A1_at	DOWN	1.7111903	cysteine-rich, angiogenic inducer, 61
	Bt.22000.1.A1_at	DOWN	2.3918626	
	Bt.10144.1.A1_s_at	DOWN	1.7994424	
	Bt.26609.1.S1_at	DOWN	1.7423699	
MAPKAPK2	Bt.24479.1.S1_at	DOWN	1.6073424	mitogen-activated protein kinase-activated protein kinase 2
PRSS23	Bt.20330.1.S1_at	DOWN	2.0511663	protease, serine, 23
SSFA2	Bt.22280.1.S1_at	DOWN	1.9495282	sperm specific antigen 2
ACSL6	Bt.11904.1.S1_at	DOWN	2.2050564	acyl-CoA synthetase long-chain family member 6
IRF5	Bt.18476.1.A1_a_at	DOWN	2.466125	interferon regulatory factor 5
IRF5	Bt.18476.1.A1_at	DOWN	1.9116037	interferon regulatory factor 5
FLVCR2	Bt.10342.1.A1_s_at	DOWN	2.372082	feline leukemia virus subgroup C cellular receptor family, member 2
LOC504761	Bt.24722.1.A1_at	DOWN	2.1321578	similar to LisH domain and HEAT repeat-containing protein KIAA1468

LOC524939	Bt.21245.1.S1_at	DOWN	4.2118535	similar to epiplakin
RASA2	Bt.21170.1.A1_at	DOWN	1.9850531	RAS p21 protein activator 2
SLAIN2	Bt.19061.1.A1_at	DOWN	1.4752774	SLAIN motif family, member 2
	Bt.2263.1.A1_at	DOWN	1.494604	
POLH	Bt.23983.1.A1_at	DOWN	1.6229202	polymerase (DNA directed), eta
SYNGR1	Bt.21053.2.S1_at	DOWN	1.6380085	synaptogyrin 1
SYNGR1	Bt.21053.1.A1_at	DOWN	1.3783634	Synaptogyrin 1
LOC513129	Bt.2033.1.A1_at	DOWN	2.8373842	Hypothetical LOC513129
KCTD9	Bt.16256.1.A1_at	DOWN	1.4728532	potassium channel tetramerisation domain containing 9
	Bt.22101.1.A1_at	DOWN	1.7443509	
	Bt.9286.1.S1_at	DOWN	2.2088141	
GLB1	Bt.6127.1.S1_at	DOWN	1.6662382	galactosidase, beta 1
ADAMTSL4	Bt.20236.1.S1_at	DOWN	1.9888437	ADAMTS-like 4
AKR7A2	Bt.11078.1.S1_a_at	DOWN	1.3084315	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)
SEC11C	Bt.20472.1.S1_at	DOWN	2.3009448	SEC11 homolog C (S. cerevisiae)
EXTL3	Bt.20033.1.S1_at	DOWN	1.8755034	Exostos (multiple)-like 3
DENND2A	Bt.13852.1.S1_at	DOWN	1.6119379	DENN/MADD domain containing 2A
	Bt.12606.1.S1_a_at	DOWN	1.7834682	
SMTN	Bt.4621.1.S1_a_at	DOWN	1.8769473	smoothelin
CSNK1D	Bt.10184.1.S1_a_at	DOWN	1.3525382	casein kinase 1, delta
	Bt.18213.1.S1_at	DOWN	2.1066742	
FKBP15	Bt.26755.1.S1_at	DOWN	1.4414123	FK506 binding protein 15, 133kDa
	6-Mar Bt.26589.1.S1_at	DOWN	2.1272252	membrane-associated ring finger (C3HC4) 6
DAB2	Bt.3814.1.S1_at	DOWN	1.6695274	Disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
ABHD2	Bt.27404.1.S1_at	DOWN	2.812191	abhydrolase domain containing 2
LOC505423	Bt.17591.1.S1_at	DOWN	1.6408688	similar to leucine-rich repeat-containing G protein-coupled receptor 4
MGC139367	Bt.20165.1.S1_at	DOWN	1.4973402	Hypothetical LOC525690
GPRC5C	Bt.21454.1.S1_at	DOWN	1.3412162	G protein-coupled receptor, family C, group 5, member C
NUAK2	Bt.20360.1.A1_at	DOWN	2.2731547	NUAK family, SNF1-like kinase, 2
FAM149B1	Bt.24651.1.A1_at	DOWN	1.5691396	Protein FAM149B1
ENPEP	Bt.25855.3.A1_a_at	DOWN	1.7808199	glutamyl aminopeptidase (aminopeptidase A)
	Bt.4484.1.S1_at	DOWN	1.5733095	
LOC787330	Bt.20067.1.S1_at	DOWN	1.8196402	similar to Intersectin-2 (SH3 domain-containing protein 1B) (SH3P18)
PTPN3	Bt.24922.1.S1_at	DOWN	1.7584436	(SH3P18-like WASP-associated protein)
TFAP2A	Bt.2750.1.S1_at	DOWN	1.9498311	Protein tyrosine phosphatase, non-receptor type 3
LOC516658	Bt.3291.1.A1_at	DOWN	1.974596	transcription factor AP-2 alpha (activating enhancer binding protein 2)
MICALL2	Bt.28275.1.S1_at	DOWN	1.9482813	similar to G27H2.2a
EPHX3	Bt.16098.1.S1_at	DOWN	1.7307558	MICAL-like 2
KLF6	Bt.24522.3.S1_a_at	DOWN	1.5413209	epoxide hydrolase 3
SPG20	Bt.27110.1.S1_at	DOWN	1.98542	Kruppel-like factor 6
LOC789240	Bt.26803.1.A1_at	DOWN	1.8544133	Spastic paraplegia 20 (Troyer syndrome)
	Bt.24587.1.A1_at	DOWN	2.3868704	Similar to testis derived transcript
ANLN	Bt.4995.1.A1_at	DOWN	1.6473001	Anillin, actin binding protein
SLC2A5	Bt.19805.1.A1_at	DOWN	1.6418146	aryl carrier family 2 (facilitated glucose/fructose transporter), member
AADACL1	Bt.27963.1.A1_at	DOWN	1.758974	arylacetamide deacetylase-like 1
ARHGAP18	Bt.14056.1.A1_at	DOWN	2.1773903	Rho GTPase activating protein 18
MTMR9	Bt.24521.1.A1_at	DOWN	1.9537404	myotubularin related protein 9
LOC541094	Bt.28586.1.S1_at	DOWN	1.8257338	similar to Endoplasmic reticulum metalloproteinase 1 (Felix-ina)
MTHFD2	Bt.20862.1.A1_at	DOWN	1.7847835	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2,
				methenyltetrahydrofolate cyclohydrolase
TMEM19	Bt.20644.1.A1_at	DOWN	1.5333433	transmembrane protein 19
	Bt.16063.1.A1_at	DOWN	2.0502808	
LOC504861	Bt.6372.1.A1_at	DOWN	1.329046	similar to cationic amino acid transporter 5
TC2N	Bt.25489.1.A1_at	DOWN	1.5956272	tandem C2 domains, nuclear
MPP5	Bt.25992.1.A1_at	DOWN	2.121809	membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)
BPHL	Bt.27434.1.A1_at	DOWN	1.984775	Biphenyl hydrolase-like (serine hydrolase)
PIP4K2A	Bt.24074.1.A1_at	DOWN	1.8838453	Phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
	Bt.14993.1.S1_a_at	DOWN	1.7593918	
NGEF	Bt.23388.1.A1_at	DOWN	2.4931836	neuronal guanine nucleotide exchange factor
MPZL1	Bt.21473.1.A1_at	DOWN	2.139662	myelin protein zero-like 1
TP53I13	Bt.11370.1.A1_at	DOWN	2.3315723	tumor protein p53 inducible protein 13
MID1IP1	Bt.11034.1.S1_at	DOWN	2.337076	MID1 interacting protein 1 (gastrulation specific G12 homolog
	Bt.7944.1.S1_at	DOWN	1.7414035	
HS6ST1	Bt.1055.1.S1_at	DOWN	1.1663635	Heparan sulfate 6-O-sulfotransferase 1
ENOSF1	Bt.3276.1.A1_at	DOWN	1.9849535	enolase superfamily member 1
RNF11	Bt.6666.1.S1_at	DOWN	1.932461	RING finger protein 11
HEBP2	Bt.13247.1.S1_at	DOWN	2.1724155	heme binding protein 2
TMEM120B	Bt.21614.1.A1_at	DOWN	1.7046499	transmembrane protein 120B
	Bt.21163.1.S1_at	DOWN	2.2195477	
ENPP1	Bt.13899.1.A1_at	DOWN	2.4702475	ectonucleotide pyrophosphatase/phosphodiesterase 1
SH3KBP1	Bt.22362.1.S1_at	DOWN	2.1104376	SH3-domain kinase binding protein 1
PPP1R13L	Bt.2928.1.S1_at	DOWN	1.9668375	protein phosphatase 1, regulatory (inhibitor) subunit 13 like
NDFIP2	Bt.5653.1.A1_at	DOWN	1.4755226	Nedd4 family interacting protein 2
CANT1	Bt.26832.1.S1_at	DOWN	2.1791146	calcium activated nucleotidase 1
LOC789240 /// TES	Bt.18089.1.S1_at	DOWN	1.7973089	similar to testis derived transcript /// testis derived transcript (3 LIM domains)
MAPK14	Bt.9698.1.S1_at	DOWN	1.364135	mitogen-activated protein kinase 14
TMEM54	Bt.28276.1.S1_at	DOWN	1.548568	transmembrane protein 54
PITPNA	Bt.22547.1.A1_a_at	DOWN	1.3131722	phosphatidylinositol transfer protein, alpha
B3GNT4	Bt.26651.1.S1_at	DOWN	1.5090483	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4
SMG1	Bt.29290.1.S1_at	DOWN	1.5258392	SMG1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans)
GATA2	Bt.6408.1.S1_at	DOWN	2.0162778	GATA binding protein 2
DUSP3	Bt.13988.1.S1_at	DOWN	1.8476985	dual specificity phosphatase 3
SLC44A2	Bt.21413.1.S1_at	DOWN	2.130615	solute carrier family 44, member 2
	Bt.28602.1.S1_at	DOWN	1.9724237	
NCOA1	Bt.13313.1.S1_at	DOWN	1.9779466	nuclear receptor coactivator 1
	Bt.10361.1.S1_at	DOWN	1.6185331	
LOC506539	Bt.6722.1.S1_at	DOWN	1.7209972	Similar to Serine/threonine-protein kinase QSK (Salt-inducible kinase 3) (SIK-3) (SIK3)
NR2C1	Bt.28215.1.S1_at	DOWN	1.7518077	nuclear receptor subfamily 2, group C, member 1
	Bt.13289.1.S1_at	DOWN	2.483535	
BCO2	Bt.28078.1.S1_at	DOWN	1.7419511	beta-carotene oxygenase 2
KHDRBS1	Bt.23288.1.S1_at	DOWN	1.1786664	KH domain containing, RNA binding, signal transduction associated 1
CCNE2	Bt.16141.1.S1_at	DOWN	2.170588	cyclin E2
DSC2	Bt.15653.1.S1_at	DOWN	2.4504023	Desmocollin 2
ADAM10	Bt.26992.1.A1_at	DOWN	1.4678493	ADAM metalloproteinase domain 10
TUBGCP4	Bt.21165.1.A1_at	DOWN	1.4021531	Tubulin, gamma complex associated protein 4
NBN	Bt.24703.1.S1_at	DOWN	1.5264682	nibrin
FGD5	Bt.25107.1.A1_at	DOWN	1.6740274	FYVE, RhoGEF and PH domain containing 5
NCLN	Bt.20217.1.S1_at	DOWN	1.8873694	nicalin homolog (zebrafish)
	Bt.21930.2.S1_at	DOWN	1.7682651	
LAMC1	Bt.20793.1.A1_s_at	DOWN	2.1131442	laminin, gamma 1 (formerly LAMB2)
	Bt.26898.1.S1_at	DOWN	1.7938788	
TMEM20	Bt.29031.1.A1_at	DOWN	2.1496496	Transmembrane protein 20

SLC39A9	Bt.29299.1.S1_at	DOWN	1.503556	solute carrier family 39 (zinc transporter), member 9
	Bt.23349.1.A1_a_at	DOWN	1.4057148	
MCOLN2	Bt.25669.1.S1_at	DOWN	1.9841199	Mucolipin 2
	Bt.11667.2.A1_at	DOWN	1.728114	
	Bt.20994.1.S1_at	DOWN	2.3943794	
	Bt.14006.1.A1_at	DOWN	1.6541758	
LOC782795 /// PRKAA1	Bt.28508.1.S1_at	DOWN	1.4755696	similar to protein kinase, AMP-activated, alpha 1 catalytic subunit /// protein kinase, AMP-activated, alpha 1 catalytic subunit
UCN3	Bt.13426.1.A1_at	DOWN	1.6328782	urocortin 3 (stresscopin)
SMURF2	Bt.28632.1.A1_at	DOWN	1.5865928	SMAD specific E3 ubiquitin protein ligase 2
SRGAP1	Bt.28759.1.A1_at	DOWN	1.2550007	SLIT-ROBO Rho GTPase activating protein 1
BRCC3	Bt.29504.1.A1_at	DOWN	1.4366195	BRCA1/BRCA2-containing complex, subunit 3
	Bt.26267.1.A1_at	DOWN	2.1011043	
ERO1L	Bt.29332.1.A1_at	DOWN	1.6004847	ERO1-like
SEC22A	Bt.3295.1.A1_at	DOWN	1.7278353	SEC22 vesicle trafficking protein homolog A (S. cerevisiae)
	Bt.22614.1.S1_at	DOWN	2.0127056	
PLA2G15	Bt.7833.1.A1_at	DOWN	2.286262	phospholipase A2, group XV
C17H22ORF13	Bt.22853.1.S1_at	DOWN	1.393112	chromosome 22 open reading frame 13 ortholog
PFKFB3	Bt.12314.1.S1_at	DOWN	1.911244	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
ZNRF1	Bt.15887.2.S1_a_at	DOWN	1.3337166	zinc and ring finger 1
TNFRSF12A	Bt.20111.1.S1_at	DOWN	1.8653814	tumor necrosis factor receptor superfamily, member 12A
SRM	Bt.9078.2.S1_a_at	DOWN	1.6267385	spermidine synthase
DNAJB2	Bt.13698.1.S1_at	DOWN	2.1815352	DnaJ (Hsp40) homolog, subfamily B, member 2
ABCA3	Bt.6002.1.S1_at	DOWN	2.215282	ATP-binding cassette, sub-family A (ABC1), member 3
ELMOD3	Bt.4582.2.S1_at	DOWN	1.8413692	ELMO/CED-12 domain containing 3
HDHD3	Bt.9507.1.S1_at	DOWN	1.7839243	haloacid dehalogenase-like hydrolase domain containing 3
UNC13D	Bt.20343.1.S1_at	DOWN	2.6051402	unc-13 homolog D (C. elegans)
DENND1A	Bt.6348.2.S1_at	DOWN	1.4576614	DENN/MADD domain containing 1A
NEU1	Bt.12399.1.S1_at	DOWN	2.091161	sialidase 1 (lysosomal sialidase)
ANXA3	Bt.6775.1.S1_at	DOWN	2.1910975	annexin A3
	Bt.612.1.S1_at	DOWN	1.4584861	
VPS37B	Bt.7063.1.S1_at	DOWN	1.7187259	vacuolar protein sorting 37 homolog B (S. cerevisiae)
DGKH	Bt.4413.1.S1_at	DOWN	1.4237562	diacylglycerol kinase, eta
LIMS2	Bt.21349.1.S1_at	DOWN	1.6881167	LIM and senescent cell antigen-like domains 2
	Bt.9672.1.S1_at	DOWN	1.3274255	
	Bt.16063.2.S1_at	DOWN	2.214103	
	Bt.9070.2.S1_at	DOWN	2.0289319	
RHPN2	Bt.12403.1.S1_at	DOWN	1.4687542	rhophilin, Rho GTPase binding protein 2
GNPTG	Bt.20298.2.S1_a_at	DOWN	1.2098485	N-acetylglucosamine-1-phosphate transferase, gamma subunit
MYSM1	Bt.20672.1.S1_at	DOWN	1.2599286	Myb-like, SWIRM and MPN domains 1
MGC134244	Bt.14201.1.S1_a_at	DOWN	1.7129574	hypothetical protein MGC134244
DNMBP	Bt.12081.1.S1_at	DOWN	1.8376176	dynamitin binding protein
	Bt.5604.1.A1_at	DOWN	2.2154996	
	Bt.10847.1.S1_at	DOWN	1.554465	
ERGIC1 /// LOC789582	Bt.6103.1.S1_at	DOWN	1.6143698	endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1 /// similar to endoplasmic reticulum-golgi intermediate compartment 32 kDa protein
NCOA1	Bt.27939.2.A1_a_at	DOWN	1.9708954	nuclear receptor coactivator 1
ST6GALNAC2	Bt.9786.1.S1_at	DOWN	1.5751176	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 2
SLC17A5	Bt.26942.1.S1_at	DOWN	1.9255307	Solute carrier family 17 (anion/sugar transporter), member 5
SERPINB5	Bt.12147.1.S1_at	DOWN	1.9663923	Serpin peptidase inhibitor, clade B (ovalbumin), member 5
FBXO6	Bt.28218.1.S1_at	DOWN	1.7048266	F-box protein 6
FERMT2	Bt.6338.1.S1_at	DOWN	1.4613242	fermitin family homolog 2 (Drosophila)
CTNS	Bt.13509.1.S1_at	DOWN	2.6641002	cystinosis, nephropathic
DNAJA4	Bt.26805.1.S1_at	DOWN	2.2468576	DnaJ (Hsp40) homolog, subfamily A, member 4
SYVN1	Bt.21430.3.S1_at	DOWN	1.937848	Synovial apoptosis inhibitor 1, synoviolin
FAM83D	Bt.28502.1.S1_at	DOWN	1.3372163	Protein FAM83D
MYST4	Bt.7356.1.S1_at	DOWN	1.895104	MYST histone acetyltransferase (monocytic leukemia) 4
ABCB8	Bt.22027.1.A1_at	DOWN	1.2530686	ATP-binding cassette, sub-family B (MDR/TAP), member 8
LOC538778	Bt.2726.1.S1_at	DOWN	1.3376113	similar to dapper 1
PPL	Bt.3362.1.S1_at	DOWN	2.0746543	periplakin
ADAM9	Bt.734.1.S1_at	DOWN	1.6258634	ADAM metallopeptidase domain 9 (meltrin gamma)
TMEM127	Bt.6553.1.A1_at	DOWN	1.6703042	transmembrane protein 127
VPS39	Bt.26861.2.S1_a_at	DOWN	1.8316705	vacuolar protein sorting 39 homolog (S. cerevisiae)
MAN2A2	Bt.3516.1.S1_at	DOWN	1.6585405	mannosidase, alpha, class 2A, member 2
	Bt.1422.1.S1_at	DOWN	2.4664185	
	Bt.29922.1.S1_at	DOWN	1.4895093	
RALBP1	Bt.20202.1.S1_at	DOWN	1.444114	RalA binding protein 1
CD164	Bt.21844.1.S1_at	DOWN	1.7908179	CD164 molecule, sialomucin
ENPEP	Bt.25855.2.S1_at	DOWN	2.646872	glutamyl aminopeptidase (aminopeptidase A)
	Bt.17518.1.S1_at	DOWN	2.651382	
TM9SF4	Bt.28082.1.S1_at	DOWN	1.5675958	transmembrane 9 superfamily protein member 4
HIVEP2	Bt.28399.1.S1_at	DOWN	2.548249	human immunodeficiency virus type 1 enhancer binding protein 2
ATP13A5	Bt.25095.1.A1_at	DOWN	2.0401301	ATPase type 13A5
NRBP2	Bt.27092.1.A1_at	DOWN	2.4170945	nuclear receptor binding protein 2
	Bt.24269.1.S1_at	DOWN	2.7703345	
MBLAC1	Bt.20529.1.A1_at	DOWN	1.2611332	metallo-beta-lactamase domain containing 1
SNX8	Bt.28467.1.S1_at	DOWN	1.6494682	sorting nexin 8
LOC510320	Bt.21852.1.S1_at	DOWN	1.6915716	hypothetical protein LOC510320
SPIRE1	Bt.7399.1.S1_at	DOWN	1.4724123	spire homolog 1 (Drosophila)
	Bt.24277.1.S1_at	DOWN	1.5148654	Membrane-associated ring finger (C3HC4) 6
CORO1C	Bt.656.2.S1_at	DOWN	1.3339984	coronin, actin binding protein, 1C
	Bt.28123.1.S1_at	DOWN	1.695922	
ALDH5A1	Bt.2173.1.S1_at	DOWN	1.7823266	aldehyde dehydrogenase 5 family, member A1
RDH11	Bt.18951.1.S1_at	DOWN	1.9263986	Retinol dehydrogenase 11 (all-trans/9-cis/11-cis)
SLC46A1	Bt.7353.1.S1_at	DOWN	1.9614708	solute carrier family 46 (folate transporter), member 1
SLC16A1	Bt.13537.1.A1_at	DOWN	1.5493183	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)
MTMR10	Bt.9801.1.S1_at	DOWN	1.8175459	myotubularin related protein 10
MBOAT1	Bt.20276.2.A1_at	DOWN	1.5465573	membrane bound O-acyltransferase domain containing 1
LRRFIP2	Bt.13852.2.S1_at	DOWN	2.0358796	leucine rich repeat (in FLII) interacting protein 2
AADACL1	Bt.20045.1.A1_at	DOWN	2.1346593	arylacetamide deacetylase-like 1
MTHFD2	Bt.6685.1.S1_at	DOWN	1.6417679	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase
KCMF1	Bt.22536.2.S1_at	DOWN	1.6370007	potassium channel modulatory factor 1
SH3BP5	Bt.8619.1.S1_at	DOWN	1.7648318	SH3-domain binding protein 5 (BTK-associated)
	Bt.26806.1.A1_at	DOWN	1.5388763	
SHISA2	Bt.22389.1.S1_at	DOWN	2.2656662	shisa homolog 2 (Xenopus laevis)
PRSS8	Bt.28286.1.S1_at	DOWN	2.3058836	protease, serine, 8
ANLN	Bt.4995.2.S1_at	DOWN	2.3680458	anillin, actin binding protein
	Bt.22628.1.S1_at	DOWN	1.6859419	
ARL6IP2	Bt.14993.3.S1_a_at	DOWN	1.919227	ADP-ribosylation factor-like 6 interacting protein 2
NCLN	Bt.20217.3.S1_at	DOWN	2.2579136	nicalin homolog (zebrafish)
LOC782069	Bt.25616.1.S1_at	DOWN	1.6419387	similar to G protein-coupled receptor
	Bt.9167.1.S1_at	DOWN	2.223996	

	Bt.17161.1.S1_at	DOWN	1.7185493	
RCN2	Bt.8643.2.S1_at	DOWN	2.4190907	reticulocalbin 2, EF-hand calcium binding domain
FERMT2	Bt.2941.2.S1_a_at	DOWN	1.4049361	fermitin family homolog 2 (Drosophila)
C16H1orf116	Bt.2744.1.1.S1_at	DOWN	1.6267091	chromosome 1 open reading frame 116 ortholog
LRRC8E	Bt.11951.1.A1_at	DOWN	2.1968255	leucine rich repeat containing 8 family, member E
	Bt.13651.2.A1_at	DOWN	2.0915203	
FGD4	Bt.28780.1.A1_at	DOWN	2.0745196	FYVE, RhoGEF and PH domain containing 4
PIP4K2A	Bt.18751.1.S1_at	DOWN	2.2428894	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
UGCG	Bt.25887.1.A1_at	DOWN	1.6800507	UDP-glucose ceramide glucosyltransferase
	Bt.9441.1.S1_at	DOWN	2.131442	
RIN3	Bt.16402.2.A1_s_at	DOWN	1.5197845	Ras and Rab interactor 3
	Bt.28175.2.S1_at	DOWN	1.5626438	
TMEM52	Bt.27323.1.S1_at	DOWN	2.1559582	Transmembrane protein 52
SLC29A3	Bt.27867.2.S1_at	DOWN	2.2144287	solute carrier family 29 (nucleoside transporters), member 3
				ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
CLN8	Bt.16727.2.S1_at	DOWN	2.0297096	
	Bt.27213.1.S1_at	DOWN	3.5855591	
RDH11	Bt.18951.2.S1_at	DOWN	2.1624098	retinol dehydrogenase 11 (all-trans/9-cis/11-cis)
	Bt.14032.1.S1_at	DOWN	2.4304092	
	Bt.26806.3.S1_at	DOWN	1.6855869	
SH3KBP1	Bt.22362.2.S1_at	DOWN	3.3481908	SH3-domain kinase binding protein 1
PKD2	Bt.20402.2.A1_at	DOWN	1.743748	polycystic kidney disease 2 (autosomal dominant)
	Bt.7553.1.S1_at	DOWN	2.4246218	
	Bt.27867.3.S1_at	DOWN	2.285946	
	Bt.14006.2.S1_at	DOWN	1.3630826	
EAF1	Bt.22209.1.A1_at	DOWN	1.509565	ELL associated factor 1
GAB1	Bt.27091.2.S1_at	DOWN	2.9652905	GRB2-associated binding protein 1
	Bt.24716.1.S1_at	DOWN	1.9158082	
	Bt.21042.1.S1_at	DOWN	2.8692737	
SLC44A2	Bt.21413.2.S1_at	DOWN	2.716184	solute carrier family 44, member 2
ALDH1A3 /// LOC534200	Bt.8798.2.S1_at	DOWN	4.162426	aldehyde dehydrogenase 1 family, member A3 /// similar to aldehyde dehydrogenase family 1, subfamily A3
GCA	Bt.12083.1.S1_s_at	DOWN	2.3744116	grancalcin, EF-hand calcium binding protein
	Bt.8990.1.S1_at	DOWN	1.7032864	
GCA	Bt.25269.1.S1_at	DOWN	1.8317406	Grancalcin, EF-hand calcium binding protein
GCA	Bt.12083.2.S1_at	DOWN	2.2794123	Grancalcin, EF-hand calcium binding protein
INVS	Bt.22361.1.A1_at	DOWN	1.1785731	inversin
	Bt.10912.1.S1_at	DOWN	1.9515297	
	Bt.21137.2.S1_at	DOWN	2.228104	
TEAD1	Bt.10088.1.A1_at	DOWN	1.6089336	TEA domain family member 1 (SV40 transcriptional enhancer factor)
C6H4orf34	Bt.19901.1.A1_at	DOWN	1.931899	chromosome 4 open reading frame 34 ortholog
LOC534832	Bt.22155.2.S1_at	DOWN	1.5735016	similar to Kinesin-like protein KIF13A (Kinesin-like protein RBKIN)
GATA2	Bt.6408.2.A1_at	DOWN	1.4851097	GATA binding protein 2
	Bt.19395.1.A1_at	DOWN	1.4256327	
	Bt.17982.2.A1_at	DOWN	1.845618	
RIMKLB	Bt.28956.1.A1_at	DOWN	1.7618128	ribosomal modification protein rimK-like family member B
PIP4K2A	Bt.18751.2.A1_s_at	DOWN	1.943566	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
	Bt.17444.2.A1_at	DOWN	1.8667257	
GOLGA4	Bt.18168.1.A1_at	DOWN	1.4760071	golgi autoantigen, golgin subfamily a, 4
S100PBP	Bt.18135.2.A1_at	DOWN	1.6419362	S100P binding protein
LOC538402	Bt.16624.1.A1_at	DOWN	1.696917	Similar to Protein FAM81A
	Bt.17702.1.A1_at	DOWN	3.212713	
ATF7	Bt.18789.2.A1_at	DOWN	1.8554062	activating transcription factor 7
RAB8B	Bt.16901.1.A1_at	DOWN	1.7998625	RAB8B, member RAS oncogene family
	Bt.16897.1.A1_at	DOWN	6.2988386	
	Bt.17542.1.S1_at	DOWN	2.2597415	
CLDN23	Bt.27959.1.S1_at	DOWN	2.445892	claudin 23
				Similar to Ubiquitin associated and SH3 domain-containing protein B
UBASH3B	Bt.29025.1.A1_at	DOWN	1.6940123	(Suppressor of T-cell receptor signaling 1) (STS-1) (Cbl-interacting protein p70)
DLX4	Bt.27619.1.A1_at	DOWN	2.4888792	distal-less homeobox 4
STT3B	Bt.27800.1.A1_at	DOWN	1.6858993	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)
	Bt.28910.1.A1_at	DOWN	1.779463	
	Bt.29229.1.A1_at	DOWN	2.109511	
	Bt.11038.1.S1_at	DOWN	1.5293268	
GPD2	Bt.21480.1.A1_s_at	DOWN	1.4604661	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)
	Bt.5847.1.S1_at	DOWN	2.794116	
	Bt.11706.1.A1_at	DOWN	1.4224424	
	Bt.23734.1.A1_at	DOWN	1.5477027	
LOC785855	Bt.25227.1.A1_at	DOWN	1.676729	similar to homeobox B8
LOC505766	Bt.11349.1.A1_at	DOWN	1.5988296	similar to BMP-2-inducible protein kinase (BIKe)
NCOA1	Bt.13313.2.S1_at	DOWN	1.6622349	nuclear receptor coactivator 1
	Bt.16671.1.A1_at	DOWN	2.1209066	
	Bt.16924.1.A1_at	DOWN	1.716246	
	Bt.16928.1.A1_at	DOWN	1.9184766	
OSGIN1	Bt.18452.1.A1_at	DOWN	2.0724857	oxidative stress induced growth inhibitor 1
	Bt.18967.1.A1_at	DOWN	2.6312609	