

## SUPPLEMENTAL METHODS

### *Flow cytometry analysis*

Phycoerythrin (PE)-conjugated monoclonal antibodies (mAb) to CD3 (clone UCHT1), CD10 (clone ALB1), CD19 (clone J4.119), CD34 (clone 581), CD45 (clone J33), CD54 (clone 84H10), CD86 (clone HA5.2B7), HLA-DR (clone Immu-357), CD105 (clone 1G2), and CD120a (clone H398); Fluorescein IsoThioCyanate (FITC)-conjugated mAb to CD19 (clone J4.119), CD20 (clone B9E9), and CD44 (clone J-173); and Phycocyanin (PC)7- and PC5-conjugated mAb to CD14 (clone RMO52), CD19 (clone J4.119), and CD20 (clone B9E9) were provided by Beckman Coulter (Villepinte, France). PE-conjugated mAb to CD73 (clone AD2), CD90 (clone 5E10), LT $\beta$ R (clone hTNF-RP-M12), and CD120b (clone hTNFR-M1) were provided by Becton Dickinson (Le Pont de Claix, France) whereas PE-conjugated mAb anti-CD106 (clone 1.G11B1) was from Chemicon (Temecula, CA).

Proliferation assay was performed using the allophycocyanin (APC)-BrdU Flow kit and apoptosis evaluation using PE-conjugated active caspase-3 apoptosis kit (Becton Dickinson). Isotype-matched mAb were used as negative control and, unless otherwise specified, all analyses were performed on TOPRO-3<sup>neg</sup> viable cells (Invitrogen) using a FACSCalibur (Becton Dickinson) or a Gallios (Beckman Coulter) flow cytometer. Cell-sorting was performed on DAPI<sup>neg</sup> viable cells (Sigma, St Louis, MO) using a FACS Aria cell sorter (Becton Dickinson).

### *Microarray and bioinformatics analysis*

Scanned Affymetrix raw data were uploaded at <https://webpub.chu-rennes.fr/extranetdim/echantadn/acces/editer.php> Expression signal values and *P*-values were obtained for each probeset (PS) using the Partek Genomics Suite software (Partek, St Louis, MO) by the Robust Multichip Averaging algorithm using GC content of probes in normalization (GC-RMA).

Background noise was decreased by eliminating PS with a low standard deviation to mean ratio and unsupervised classification was performed with hierarchical clustering using Cluster and Treeview softwares (<http://rana.lbl.gov/EisenSoftware.htm>). To compare HD-MSC and FL-MSC and generate the FL-MSC signature, supervised analyses were carried out by combining: i) Significance Analysis of Microarray (SAM) software using 1000 permutations (<http://www-stat.stanford.edu/~tibs/SAM/>) resulting

in the selection of PS with a  $|FC| > 2$  and a false discovery rate (FDR)  $< 5\%$ , and ii) unpaired Mann-Whitney non parametric *U*-test carried out with Partek Genomics Suite software allowing the selection of PS with a  $|FC| > 2$  and a *P*-value less than .05. To define the TNF/LT signature, data from paired HD-MSC treated or not with TNF/LT were compared using the same approach was used except that we crossed a SAM analysis retaining PS with a  $|FC| > 2$  and a FDR  $< .1\%$  with a paired Student t-test selecting PS with a  $|FC| > 2$  and a *P*-value less than .005. The FL-MSC and TNF/LT signatures corresponded each time to overlapping PS.

Generated PS lists were analyzed by Ingenuity Pathway Analysis (Ingenuity® Systems, <http://www.ingenuity.com>) and classified by Gene Ontology subcellular localization. Gene Set Enrichment Analysis (GSEA)<sup>1</sup> software was used to assess the overexpression of the TNF/LT signature in the FL-MSC *versus* HD-MSC microarray data. Non redundant datasets were generated and the signal-to-noise ratio (SNR) statistic was used to rank the genes. A *P*-value was calculated for a weighted enrichment score (ES) by using a sample-based permutation test procedure including 1000 permutations.

#### *CCL2 depletion*

CCL2 was specifically depleted in MSC supernatants using magnetic beads. Briefly,  $2 \times 10^7$  Dynabeads pan mouse IgG (Invitrogen) were conjugated to 10  $\mu\text{g}$  anti-CCL2 antibody (R&D systems) before a 2-hour incubation with MSC supernatants. Supernatants were thereafter seeded inside a magnetic field to allow CCL2 retention. We checked by ELISA (R&D Systems) that CCL2 was undetectable in depleted MSC supernatants whereas the level of IL-8, another highly expressed chemokine, was not affected. Conversely, the use of an isotype-matched control mAb instead of specific anti-CCL2 antibody did not modify the concentration of CCL2 in MSC supernatants.

## REFERENCES

1. Subramanian A, Tamayo P, Mootha VK, et al. Gene set enrichment analysis: a knowledge-based approach for interpreting genome-wide expression profiles. *Proc Natl Acad Sci U S A*. 2005;102(43):15545-15550.

**Table S1. FL patient characteristics**

	<b>Bioclinical characteristics (n=10)</b>
<b>Tumor grade*</b>	
1	4
2	4
3a	1
3b	1
<b>FLIPI risk group**</b>	
<i>Low</i>	3
<i>Intermediate</i>	3
<i>High</i>	4
<b>IgH-BCL2 gene fusion***</b>	
<i>Negative</i>	4
<i>Positive</i>	6
<b>Bone marrow infiltration†</b>	
<i>Negative</i>	3
<i>Positive</i>	7

\* FL patients were classified into grades 1, 2, 3a, or 3b according to the WHO diagnosis criteria.

\*\* Follicular Lymphoma International Prognostic Index (FLIPI) values were classified as low (0-1), intermediate (2), or high (3 to 5).

\*\*\* *BCL2* rearrangements were determined by PCR according to Biomed2 recommendations<sup>1</sup> or by FISH analysis.

† Bone marrow infiltration was determined by classical histopathological analysis on bone marrow biopsies and by evaluation of the  $\kappa/\lambda$  light chain ratio among CD10<sup>pos</sup> B cells on bone marrow aspirates.

**Reference:**

1. van Dongen JJ, Langerak AW, Bruggemann M, et al. Design and standardization of PCR primers and protocols for detection of clonal immunoglobulin and T-cell receptor gene recombinations in suspect lymphoproliferations: report of the BIOMED-2 Concerted Action BMH4-CT98-3936. *Leukemia* 2003; 17: 2257-2317.

**Table S2. Taqman Gene Expression Assays used for RQ-PCR experiments**

<b>Gene Symbol</b>	<b>Gene Name</b>	<b>Unigene ID</b>	<b>Assay ID</b>
<b><i>CCL2</i></b>	chemokine (C-C motif) ligand 2	Hs.303649	Hs.00234140_m1
<b><i>CCL5</i></b>	chemokine (C-C motif) ligand 5	Hs.514821	Hs.00174575_m1
<b><i>CHST2</i></b>	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2	Hs.8786	Hs.01921028_s1
<b><i>CLU</i></b>	clusterin	Hs.436657	Hs.00156548_m1
<b><i>DUSP6</i></b>	dual specificity phosphatase 6	Hs.298654	Hs.00737962_m1
<b><i>GAPDH</i></b>	glyceraldehyde-3-phosphate dehydrogenase	Hs.598320	Hs.99999905_m1
<b><i>HBEGF</i></b>	Heparin-binding EGF-like growth factor	Hs.799	Hs.00961131_m1
<b><i>IL10</i></b>	interleukin 10	Hs.193717	Hs.99999035_m1
<b><i>IL12A</i></b>	Natural killer cell stimulatory factor1, p35	Hs.673	Hs.00168405_m1
<b><i>IL15</i></b>	interleukin 15	Hs.654378	Hs.00174106_m1
<b><i>IL6</i></b>	interleukin 6	Hs.654458	Hs.00174131_m1
<b><i>IL8</i></b>	interleukin 8	Hs.624	Hs.00174103_m1
<b><i>PGF</i></b>	placental growth factor	Hs.252820	Hs.00182176_m1
<b><i>TNFRSF10A</i></b>	tumor necrosis factor receptor superfamily, member 10A	Hs.591834	Hs.00269492_m1
<b><i>TNFSF2</i></b>	tumor necrosis factor (ligand) superfamily, member 2	Hs.241570	Hs.00174128_m1
<b><i>TNFSF4</i></b>	tumor necrosis factor (ligand) superfamily, member 4	Hs.181097	Hs.00182411_m1
<b><i>VEGFA</i></b>	vascular endothelial growth factor A	Hs.73793	Hs.00173626_m1

**Table S3. Genes differentially expressed in FL-MSC compared with HD-MSC**

Red line indicates genes overexpressed in FL-MSC and green line indicates genes overexpressed in HD-MSC

Fold change indicates the ratio of median in FL-MSC/median in HD-MSC when > 2; or -1/(ratio of median in FL-MSC/median in HD-MSC) when < .5

Location	Fold Change	ProbeSet ID	UniGene ID	Gene Symbol	Gene Name	
<b>Extracellular Space</b>	3.7	209277_at	Hs,438231	TFPI2	tissue factor pathway inhibitor 2	
	3.6	228885_at	Hs,547172	MAMDC2	MAM domain containing 2	
	3	208791_at	Hs,436657	CLU	clusterin	
	3	205174_s_at	Hs,79033	QPCT (includes EG:25797)	glutaminy-peptide cyclotransferase	
	2.8	1552457_a_at	Hs,522019	ADAMTSL1	ADAMTS-like 1	
	2.7	214913_at	Hs,590919	ADAMTS3	ADAM metalloproteinase with thrombospondin type 1 motif, 3	
	2.6	218454_at	Hs,131933	PLBD1	phospholipase B domain containing 1	
	2.6	201348_at	Hs,386793	GPX3	glutathione peroxidase 3 (plasma)	
	2.6	209278_s_at	Hs,438231	TFPI2	tissue factor pathway inhibitor 2	
	2.5	220176_at	Hs,288981	NUBPL	nucleotide binding protein-like	
	2.4	37547_at	Hs,372360	BBS9	Bardet-Biedl syndrome 9	
	2.4	209676_at	Hs,516578	TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	
	2.2	216598_s_at	Hs,303649	CCL2	chemokine (C-C motif) ligand 2	
	2.2	1558692_at	Hs,202522	C1ORF85	chromosome 1 open reading frame 85	
	2.1	211596_s_at	Hs,518055	LRIG1	leucine-rich repeats and immunoglobulin-like domains 1	
	2	229461_x_at	Hs,146542	NEGR1	neuronal growth regulator 1	
	2	1558279_a_at	Hs,74050	KDSR	3-ketodihydrospingosine reductase	
	<b>Plasma Membrane</b>	4.6	218309_at	Hs,197922	CAMK2N1	calcium/calmodulin-dependent protein kinase II inhibitor 1
		4	1554062_at	Hs,179675	XG	Xg blood group
3.8		229151_at	Hs,101307	SLC14A1	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	
3.8		205856_at	Hs,101307	SLC14A1	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	
3.6		231775_at	Hs,591834	TNFRSF10A (includes EG:8797)	tumor necrosis factor receptor superfamily, member 10a	
3.6		210286_s_at	Hs,250072	SLC4A7	solute carrier family 4, sodium bicarbonate cotransporter, member 7	
3.6		202920_at	Hs,620557	ANK2	ankyrin 2, neuronal	
3.4		34031_i_at	Hs,531987	KRIT1	KRIT1, ankyrin repeat containing	
3.3		1554557_at	Hs,478429	ATP11B	ATPase, class VI, type 11B	
3.2		242963_at	Hs,595423	SGMS2	sphingomyelin synthase 2	
3.2		220254_at	Hs,654804	LRP12	low density lipoprotein-related protein 12	
3.1		224341_x_at	Hs,174312	TLR4	toll-like receptor 4	
3		232068_s_at	Hs,174312	TLR4	toll-like receptor 4	
2.9		211136_s_at	Hs,444441	CLPTM1	cleft lip and palate associated transmembrane protein 1	
2.9		220076_at	Hs,156727	ANKH	ankylosis, progressive homolog (mouse)	
2.8		211343_s_at	Hs,695934	COL13A1	collagen, type XIII, alpha 1	
2.8		222088_s_at	Hs,419240	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	
2.8		218451_at	Hs,476093	CDCP1	CUB domain containing protein 1	
2.6		203508_at	Hs,256278	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B	
2.5		213413_at	---	STON1	stonin 1	
2.4		229176_at	Hs,156727	ANKH	ankylosis, progressive homolog (mouse)	
2.4		232060_at	Hs,654491	ROR1	receptor tyrosine kinase-like orphan receptor 1	
2.3		226358_at	Hs,532698	APH1B	anterior pharynx defective 1 homolog B (C. elegans)	
2.3		214374_s_at	Hs,172445	PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	
2.3		205579_at	Hs,1570	HRH1	histamine receptor H1	
2.3		228239_at	Hs,656195	FAM165B	family with sequence similarity 165, member B	
2.3		204396_s_at	Hs,524625	GRK5	G protein-coupled receptor kinase 5	
2.3		242317_at	Hs,7917	HIGD1A	HIG1 domain family, member 1A	
2.3		225571_at	Hs,133421	LIFR	leukemia inhibitory factor receptor alpha	
2.2		220253_s_at	Hs,654804	LRP12	low density lipoprotein-related protein 12	
2.2		205003_at	Hs,654652	DOCK4	dedicator of cytokinesis 4	
2.1	215991_s_at	Hs,439200	KIAA0090	KIAA0090		
2.1	201656_at	Hs,133397	ITGA6	integrin, alpha 6		

	2.1	209737_at	Hs,654788	<b>MAGI2</b>	membrane associated guanylate kinase, WW and PDZ domain containing 2
	2.1	224964_s_at	Hs,187772	<b>GNG2</b>	guanine nucleotide binding protein (G protein), gamma 2
	2.1	215707_s_at	Hs,472010	<b>PRNP</b>	prion protein
	2	215856_at	Hs,287692	<b>SIGLEC15</b>	sialic acid binding Ig-like lectin 15
	2	201719_s_at	Hs,486470	<b>EPB41L2</b>	erythrocyte membrane protein band 4.1-like 2
	2	204359_at	Hs,533710	<b>FLRT2</b>	fibronectin leucine rich transmembrane protein 2
<b>Cytoplasm</b>	4.2	208891_at	Hs,298654	<b>DUSP6</b>	dual specificity phosphatase 6
	4.1	212538_at	Hs,654825	<b>DOCK9</b>	dedicator of cytokinesis 9
	3.8	239108_at	Hs,714804	<b>FAR2</b>	fatty acyl CoA reductase 2
	3.8	200965_s_at	Hs,438236	<b>ABLIM1</b>	actin binding LIM protein 1
	3.8	208892_s_at	Hs,298654	<b>DUSP6</b>	dual specificity phosphatase 6
	3.4	204748_at	Hs,196384	<b>PTGS2</b>	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
	3.4	226432_at	Hs,29464	<b>ETNK1</b>	ethanolamine kinase 1
	3.2	204154_at	Hs,442378	<b>CDO1</b>	cysteine dioxygenase, type I
	3.2	206129_s_at	Hs,149103	<b>ARSB</b>	arylsulfatase B
	3.1	225738_at	Hs,127897	<b>RAPGEF1</b>	Rap guanine nucleotide exchange factor (GEF) 1
	3.1	204061_at	Hs,390788	<b>PRKX</b>	protein kinase, X-linked
	3.1	34408_at	Hs,47517	<b>RTN2</b>	reticulon 2
	3.1	228772_at	Hs,42151	<b>HNMT</b>	histamine N-methyltransferase
	3	236140_at	Hs,315562	<b>GCLM</b>	glutamate-cysteine ligase, modifier subunit
	3	216899_s_at	Hs,200770	<b>SKAP2</b>	src kinase associated phosphoprotein 2
	3	205139_s_at	Hs,657370	<b>UST</b>	uronyl-2-sulfotransferase
	2.9	227850_x_at	Hs,415791	<b>CDC42EP5</b>	CDC42 effector protein (Rho GTPase binding) 5
	2.9	229958_at	Hs,127675	<b>CLN8</b>	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
	2.8	216250_s_at	Hs,125474	<b>LPXN</b>	leupaxin
	2.8	203722_at	Hs,77448	<b>ALDH4A1</b>	aldehyde dehydrogenase 4 family, member A1
	2.8	1552789_at	Hs,592561	<b>SEC62</b>	SEC62 homolog (S. cerevisiae)
	2.7	221994_at	Hs,480311	<b>PDLIM5</b>	PDZ and LIM domain 5
	2.7	231832_at	Hs,713979	<b>GALNT4</b>	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)
	2.7	227135_at	Hs,437365	<b>NAAA</b>	N-acyl ethanolamine acid amidase
	2.7	226181_at	Hs,34851	<b>TUBE1</b>	tubulin, epsilon 1
	2.7	219843_at	Hs,699548	<b>IPP</b>	intracisternal A particle-promoted polypeptide
	2.6	214045_at	Hs,550502	<b>LIAS</b>	lipoic acid synthetase
	2.5	213562_s_at	Hs,71465	<b>SQLE</b>	squalene epoxidase
	2.5	204493_at	Hs,591054	<b>BID</b>	BH3 interacting domain death agonist
	2.5	206665_s_at	Hs,516966	<b>BCL2L1</b>	BCL2-like 1
	2.5	222846_at	Hs,389733	<b>RAB8B</b>	RAB8B, member RAS oncogene family
	2.5	227417_at	Hs,369042	<b>MOSC2</b>	MOCO sulphurase C-terminal domain containing 2
	2.5	205842_s_at	Hs,656213	<b>JAK2</b>	Janus kinase 2 (a protein tyrosine kinase)
	2.5	1558014_s_at	Hs,501991	<b>FAR1</b>	fatty acyl CoA reductase 1
	2.5	225290_at	Hs,29464	<b>ETNK1</b>	ethanolamine kinase 1
	2.4	1568763_s_at	Hs,714877	<b>PDCD6</b>	programmed cell death 6
	2.4	214221_at	Hs,184720	<b>ALMS1</b>	Alstrom syndrome 1
	2.4	215743_at	Hs,60339	<b>NMT2</b>	N-myristoyltransferase 2
	2.4	1559190_s_at	Hs,327631 /// Hs,632973	<b>RDH13</b>	retinol dehydrogenase 13 (all-trans/9-cis)
	2.4	212990_at	Hs,473632	<b>SYNJ1</b>	synaptojanin 1
	2.4	238013_at	Hs,369123	<b>PLEKHA2</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2
	2.4	223465_at	Hs,270437	<b>COL4A3BP</b>	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein
	2.4	221268_s_at	Hs,24678	<b>SGPP1</b>	sphingosine-1-phosphate phosphatase 1
	2.4	218501_at	Hs,476402	<b>ARHGEF3</b>	Rho guanine nucleotide exchange factor (GEF) 3
	2.4	236208_at	Hs,163645	<b>MOCS2</b>	molybdenum cofactor synthesis 2
	2.4	216593_s_at	Hs,188456	<b>PIGC</b>	phosphatidylinositol glycan anchor biosynthesis, class C
	2.3	213572_s_at	Hs,381167	<b>SERPINB1</b>	serpin peptidase inhibitor, clade B (ovalbumin), member 1
	2.3	227997_at	Hs,150725	<b>IL17RD</b>	interleukin 17 receptor D
	2.3	208868_s_at	Hs,524250	<b>GABARAPL1</b>	GABA(A) receptor-associated protein like 1

	2.3	218748_s_at	Hs,655158	<b>EXOC5</b>	exocyst complex component 5
	2.3	33322_i_at	Hs,523718	<b>SFN</b>	stratifin
	2.3	203285_s_at	Hs,48823	<b>HS2ST1</b>	heparan sulfate 2-O-sulfotransferase 1
	2.3	214260_at	Hs,531713	<b>COPS8</b>	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis)
	2.3	214855_s_at	Hs,113150	<b>GARNL1</b>	GTPase activating Rap/RanGAP domain-like 1
	2.3	226602_s_at	Hs,318898	<b>BCR</b>	breakpoint cluster region
	2.3	229331_at	Hs,527090	<b>SPATA18</b>	spermatogenesis associated 18 homolog (rat)
	2.2	220038_at	Hs,656798	<b>SGK3</b>	serum/glucocorticoid regulated kinase family, member 3
	2.2	205083_at	Hs,406238	<b>AOX1</b>	aldehyde oxidase 1
	2.2	235722_at	Hs,443661	<b>SYNJ2BP</b>	synaptojanin 2 binding protein
	2.2	235103_at	Hs,432822	<b>MAN2A1</b>	mannosidase, alpha, class 2A, member 1
	2.2	212221_x_at	Hs,460960	<b>IDS</b>	iduronate 2-sulfatase
	2.2	203910_at	Hs,483238	<b>ARHGAP29</b>	Rho GTPase activating protein 29
	2.2	40148_at	Hs,479602	<b>APBB2</b>	amyloid beta (A4) precursor protein-binding, family B, member 2
	2.2	219062_s_at	Hs,114191	<b>ZCCHC2</b>	zinc finger, CCHC domain containing 2
	2.2	213750_at	Hs,401842	<b>RSL1D1</b>	ribosomal L1 domain containing 1
	2.2	213552_at	Hs,183006	<b>GLCE</b>	glucuronic acid epimerase
	2.2	230174_at	Hs,657617	<b>LYPLAL1</b>	lysophospholipase-like 1
	2.2	235320_at	Hs,373801	<b>ARL6</b>	ADP-ribosylation factor-like 6
	2.2	221589_s_at	Hs,293970	<b>ALDH6A1</b>	aldehyde dehydrogenase 6 family, member A1
	2.1	202660_at	Hs,512235	<b>ITPR2</b>	inositol 1,4,5-triphosphate receptor, type 2
	2.1	206113_s_at	Hs,475663	<b>RAB5A</b>	RAB5A, member RAS oncogene family
	2.1	223263_s_at	Hs,591162	<b>FGFR1OP2</b>	FGFR1 oncogene partner 2
	2.1	226335_at	Hs,445387	<b>RPS6KA3</b>	ribosomal protein S6 kinase, 90kDa, polypeptide 3
	2.1	203921_at	Hs,8786	<b>CHST2</b>	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2
	2.1	218700_s_at	Hs,115325	<b>RAB7L1</b>	RAB7, member RAS oncogene family-like 1
	2.1	243438_at	Hs,652367	<b>PDE7B</b>	phosphodiesterase 7B
	2.1	234988_at	Hs,632066	<b>VCPIP1</b>	valosin containing protein (p97)/p47 complex interacting protein 1
	2.1	1554053_at	Hs,90458	<b>SPTLC1</b>	serine palmitoyltransferase, long chain base subunit 1
	2.1	218313_s_at	Hs,548088	<b>GALNT7</b>	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7)
	2.1	36920_at	Hs,655056	<b>MTM1</b>	myotubularin 1
	2	224898_at	Hs,497873	<b>WDR26</b>	WD repeat domain 26
	2	212414_s_at	Hs,387255	<b>SEPT6</b>	septin 6
	2	52285_f_at	Hs,236940	<b>CEP76</b>	centrosomal protein 76kDa
	2	235635_at	Hs,592313	<b>ARHGAP5</b>	Rho GTPase activating protein 5
	2	225478_at	Hs,379414	<b>MFHAS1</b>	malignant fibrous histiocytoma amplified sequence 1
<b>Nucleus</b>	5.3	230438_at	Hs,146196	<b>TBX15</b>	T-box 15
	4.7	236313_at	Hs,72901	<b>CDKN2B</b>	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
	4.3	215071_s_at	Hs,484950	<b>HIST1H2AC</b>	histone cluster 1, H2ac
	3.5	212148_at	Hs,654412	<b>PBX1</b>	pre-B-cell leukemia homeobox 1
	3.5	231929_at	Hs,604950	<b>IKZF2</b>	IKAROS family zinc finger 2 (Helios)
	3.1	233819_s_at	Hs,288773	<b>RNF160</b>	ring finger protein 160
	3	211090_s_at	Hs,159014	<b>PRPF4B</b>	PRP4 pre-mRNA processing factor 4 homolog B (yeast)
	3	218362_s_at	Hs,643464	<b>DIS3</b>	DIS3 mitotic control homolog (S. cerevisiae)
	3	206115_at	Hs,534313	<b>EGR3</b>	early growth response 3
	3	230063_at	Hs,515634	<b>ZNF264</b>	zinc finger protein 264
	2.9	230291_s_at	Hs,644095	<b>NFIB</b>	nuclear factor I/B
	2.8	225061_at	Hs,513053	<b>DNAJA4</b>	DnaJ (Hsp40) homolog, subfamily A, member 4
	2.7	1558254_s_at	Hs,285197	<b>SRPK2</b>	SFRS protein kinase 2
	2.6	231975_s_at	Hs,657594	<b>MIER3</b>	mesoderm induction early response 1, family member 3
	2.5	209290_s_at	Hs,644095	<b>NFIB</b>	nuclear factor I/B
	2.5	221911_at	Hs,22634	<b>ETV1</b>	ets variant 1
	2.5	203347_s_at	Hs,31016	<b>MTF2</b>	metal response element binding transcription factor 2
	2.5	206511_s_at	Hs,101937	<b>SIX2</b>	SIX homeobox 2
	2.4	222762_x_at	Hs,193370	<b>LIMD1</b>	LIM domains containing 1



	2.4	204622_x_at	Hs,563344	<b>NR4A2</b>	nuclear receptor subfamily 4, group A, member 2
	2.4	212731_at	Hs,530199	<b>ANKRD46</b>	ankyrin repeat domain 46
	2.4	205372_at	Hs,14968	<b>PLAG1</b>	pleiomorphic adenoma gene 1
	2.4	202221_s_at	Hs,517517	<b>EP300</b>	E1A binding protein p300
	2.4	231188_at	Hs,594023	<b>ZSCAN2</b>	zinc finger and SCAN domain containing 2
	2.4	242794_at	Hs,586165	<b>MAML3</b>	mastermind-like 3 (Drosophila)
	2.3	1557950_at	Hs,655964	<b>SDCCAG1</b>	serologically defined colon cancer antigen 1
	2.3	206510_at	Hs,101937	<b>SIX2</b>	SIX homeobox 2
	2.3	209289_at	Hs,644095	<b>NFIB</b>	nuclear factor I/B
	2.3	226352_at	Hs,482605	<b>JMY</b>	junction mediating and regulatory protein, p53 cofactor
	2.3	226366_at	Hs,124537	<b>SHPRH</b>	SNF2 histone linker PHD RING helicase
	2.3	210253_at	Hs,90753	<b>HTATIP2</b>	HIV-1 Tat interactive protein 2, 30kDa
	2.2	212594_at	Hs,711490	<b>PDCD4</b>	programmed cell death 4 (neoplastic transformation inhibitor)
	2.2	232103_at	Hs,406134	<b>BPNT1</b>	3'(2'), 5'-bisphosphate nucleotidase 1
	2.2	211352_s_at	Hs,592142	<b>NCOA3</b>	nuclear receptor coactivator 3
	2.2	213147_at	Hs,592166	<b>HOXA10</b>	homeobox A10
	2.2	223651_x_at	Hs,153546	<b>CDC23 (includes EG:8697)</b>	cell division cycle 23 homolog (S. cerevisiae)
	2.2	214684_at	Hs,268675	<b>MEF2A (includes EG:4205)</b>	myocyte enhancer factor 2A
	2.2	203845_at	Hs,533055	<b>KAT2B</b>	K(lysine) acetyltransferase 2B
	2.2	212593_s_at	Hs,711490	<b>PDCD4</b>	programmed cell death 4 (neoplastic transformation inhibitor)
	2.2	211105_s_at	Hs,534074	<b>NFATC1</b>	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
	2.2	217526_at	Hs,513470	<b>NFATC2IP</b>	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein
	2.2	207108_s_at	Hs,481927	<b>NIPBL</b>	Nipped-B homolog (Drosophila)
	2.2	216248_s_at	Hs,563344	<b>NR4A2</b>	nuclear receptor subfamily 4, group A, member 2
	2.1	227020_at	Hs,463613	<b>YPEL2</b>	yippee-like 2 (Drosophila)
	2.1	229317_at	Hs,182971	<b>KPNA5</b>	karyopherin alpha 5 (importin alpha 6)
	2.1	209211_at	Hs,508234	<b>KLF5</b>	Kruppel-like factor 5 (intestinal)
	2.1	235409_at	Hs,187569	<b>MGA</b>	MAX gene associated
	2.1	209049_s_at	Hs,446240	<b>ZMYND8</b>	zinc finger, MYND-type containing 8
	2.1	208740_at	Hs,524899	<b>SAP18</b>	Sin3A-associated protein, 18kDa
	2.1	202730_s_at	Hs,711490	<b>PDCD4</b>	programmed cell death 4 (neoplastic transformation inhibitor)
	2.1	208859_s_at	Hs,533526	<b>ATRX</b>	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae)
	2.1	209348_s_at	Hs,709603	<b>MAF (includes EG:4094)</b>	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
	2.1	227934_at	Hs,182971	<b>KPNA5</b>	karyopherin alpha 5 (importin alpha 6)
	2.1	224847_at	Hs,119882	<b>CDK6</b>	cyclin-dependent kinase 6
	2	224848_at	Hs,119882	<b>CDK6</b>	cyclin-dependent kinase 6
	2	217427_s_at	Hs,474206	<b>HIRA</b>	HIR histone cell cycle regulation defective homolog A (S. cerevisiae)
	2	226069_at	Hs,524348	<b>PRICKLE1</b>	prickle homolog 1 (Drosophila)
	2	222636_at	Hs,434075	<b>MED28</b>	mediator complex subunit 28
<b>Unknown</b>	6.6	226558_at	---	<b>LOC653071</b>	similar to CG32820-PA, isoform A
	4.4	244640_at	Hs,406307	<b>LOC342892</b>	zinc finger protein 850 pseudogene
	4.2	226490_at	Hs,652741	<b>NHSL1</b>	NHS-like 1
	4	204160_s_at	Hs,643497	<b>ENPP4</b>	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)
	3.4	224568_x_at	Hs,642877	<b>MALAT1</b>	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
	3	232080_at	Hs,654742	<b>HECW2</b>	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2
	3	1554140_at	Hs,49421	<b>WDR78</b>	WD repeat domain 78
	2.9	228152_s_at	Hs,535011	<b>DDX60L</b>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like
	2.9	1553106_at	Hs,406549	<b>C5ORF24</b>	chromosome 5 open reading frame 24
	2.8	227777_at	Hs,699500	<b>C10ORF18</b>	chromosome 10 open reading frame 18
	2.8	218967_s_at	Hs,714420	<b>PTER</b>	phosphotriesterase related
	2.8	219094_at	Hs,266826	<b>ARMC8</b>	armadillo repeat containing 8
	2.7	1569129_s_at	Hs,518099	<b>C3ORF38</b>	chromosome 3 open reading frame 38
	2.7	243982_at	Hs,653206	<b>KLHL28</b>	kelch-like 28 (Drosophila)
	2.7	209343_at	Hs,516769	<b>EFHD1</b>	EF-hand domain family, member D1
	2.7	232112_at	Hs,709811	<b>RALGPS2</b>	Ral GEF with PH domain and SH3 binding motif 2

2.6	228608_at	Hs,525146	<b>NALCN</b>	sodium leak channel, non-selective
2.6	225166_at	Hs,486458	<b>ARHGAP18</b>	Rho GTPase activating protein 18
2.6	1558943_x_at	Hs,710250	<b>ZNF765</b>	zinc finger protein 765
2.6	235061_at	Hs,291000	<b>PPM1K</b>	protein phosphatase 1K (PP2C domain containing)
2.6	225922_at	Hs,709500	<b>FNIP2 (includes EG:57600)</b>	folliculin interacting protein 2
2.6	225487_at	Hs,43899	<b>TMEM18</b>	transmembrane protein 18
2.6	226533_at	Hs,72325	<b>HINT3</b>	histidine triad nucleotide binding protein 3
2.5	229748_x_at	Hs,487562	<b>LOC100132288</b>	hypothetical protein LOC100132288
2.5	225957_at	Hs,484195	<b>C5ORF41</b>	chromosome 5 open reading frame 41
2.5	226919_at	Hs,177275	<b>LYRM2</b>	LYR motif containing 2
2.5	239960_x_at	Hs,115467	<b>LYRM7</b>	Lyrm7 homolog (mouse)
2.5	203354_s_at	Hs,434255	<b>PSD3</b>	pleckstrin and Sec7 domain containing 3
2.5	243606_at	Hs,595933	<b>FAM55C</b>	family with sequence similarity 55, member C
2.5	235004_at	Hs,519904	<b>RBM24</b>	RNA binding motif protein 24
2.5	243042_at	Hs,632419	<b>FAM73A</b>	family with sequence similarity 73, member A
2.4	214778_at	Hs,132483	<b>MEGF8</b>	multiple EGF-like-domains 8
2.4	230569_at	Hs,535734	<b>KIAA1430</b>	KIAA1430
2.4	229101_at	Hs,48353	<b>LOC150166</b>	hypothetical protein LOC150166
2.4	213316_at	Hs,533953	<b>KIAA1462</b>	KIAA1462
2.4	227268_at	Hs,531701	<b>RNFT1</b>	ring finger protein, transmembrane 1
2.4	205761_s_at	Hs,97627	<b>DUS4L</b>	dihydrouridine synthase 4-like (S. cerevisiae)
2.4	213224_s_at	Hs,232543	<b>NCRNA00081</b>	non-protein coding RNA 81
2.4	218180_s_at	Hs,55016	<b>EPS8L2</b>	EPS8-like 2
2.3	235675_at	Hs,448003	<b>DHFRL1</b>	dihydrofolate reductase-like 1
2.3	220329_s_at	Hs,486835	<b>RMND1</b>	required for meiotic nuclear division 1 homolog (S. cerevisiae)
2.3	214791_at	Hs,662198	<b>SP140L</b>	SP140 nuclear body protein-like
2.3	225989_at	Hs,51891	<b>HERC4</b>	hect domain and RLD 4
2.3	213248_at	Hs,7921	<b>LOC730101</b>	hypothetical LOC730101
2.3	207703_at	Hs,439199	<b>NLGN4Y</b>	neuroligin 4, Y-linked
2.3	235182_at	Hs,559353	<b>ISM1</b>	isthmin 1 homolog (zebrafish)
2.3	1558508_a_at	Hs,61329	<b>C1ORF53</b>	chromosome 1 open reading frame 53
2.3	227840_at	Hs,99488	<b>C2ORF76</b>	chromosome 2 open reading frame 76
2.3	229126_at	Hs,688627	<b>TMEM19</b>	transmembrane protein 19
2.3	225155_at	Hs,292457	<b>SNHG5</b>	small nucleolar RNA host gene 5 (non-protein coding)
2.3	231899_at	Hs,376289	<b>ZC3H12C</b>	zinc finger CCCH-type containing 12C
2.3	223178_s_at	Hs,520341	<b>NT5DC1</b>	5'-nucleotidase domain containing 1
2.3	220172_at	Hs,659439	<b>C2ORF37</b>	chromosome 2 open reading frame 37
2.2	219793_at	Hs,492121	<b>SNX16</b>	sorting nexin 16
2.2	238762_at	Hs,479954	<b>MTHFD2L</b>	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like
2.2	227330_x_at	Hs,487562	<b>LOC100132288</b>	hypothetical protein LOC100132288
2.2	203364_s_at	Hs,127403	<b>KIAA0652</b>	KIAA0652
2.2	227514_at	Hs,648523	<b>ITPR1PL2</b>	inositol 1,4,5-triphosphate receptor interacting protein-like 2
2.2	238860_at	Hs,227457	<b>C6ORF130</b>	chromosome 6 open reading frame 130
2.2	204759_at	Hs,657385	<b>RCBTB2</b>	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2
2.1	235016_at	Hs,499833	<b>REEP3</b>	receptor accessory protein 3
2.1	225028_at	Hs,355559	<b>LOC550643</b>	hypothetical LOC550643
2.1	227247_at	Hs,233495	<b>PLEKHA8</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8
2.1	213142_x_at	Hs,186649	<b>PION</b>	pigeon homolog (Drosophila)
2.1	235606_at	Hs,655735	<b>LOC344595</b>	hypothetical LOC344595
2.1	218521_s_at	Hs,708021	<b>UBE2W</b>	ubiquitin-conjugating enzyme E2W (putative)
2.1	1554549_a_at	Hs,36859	<b>WDR20</b>	WD repeat domain 20
2.1	243648_at	---	<b>LOC100131402</b>	hypothetical protein LOC100131402
2.1	225561_at	Hs,369052	<b>SELT</b>	selenoprotein T
2.1	229256_at	Hs,26612	<b>PGM2L1</b>	phosphoglucomutase 2-like 1
2.1	241933_at	Hs,406917	<b>QRSL1</b>	glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1

	2.1	234491_s_at	Hs,642842	<b>SAV1</b>	salvador homolog 1 (Drosophila)
	2	226436_at	Hs,522895	<b>RASSF4</b>	Ras association (RalGDS/AF-6) domain family member 4
	2	220241_at	Hs,317593	<b>TMCO3</b>	transmembrane and coiled-coil domains 3
	2	218610_s_at	Hs,460002	<b>FLJ11151</b>	hypothetical protein FLJ11151
	2	228749_at	Hs,110489	<b>ZDBF2</b>	zinc finger, DBF-type containing 2
	2	225956_at	Hs,484195	<b>C5ORF41</b>	chromosome 5 open reading frame 41
	2	235484_at	Hs,714854	<b>PTAR1</b>	protein prenyltransferase alpha subunit repeat containing 1
	2	223167_s_at	Hs,473370	<b>USP25</b>	ubiquitin specific peptidase 25
	6.9	236089_at	Hs,633212		
	5.1	1558605_at	Hs,597446		
	4.9	212444_at	Hs,632997		
	3.8	235427_at	Hs,611075		
	3.8	1558236_at	---		
	3.7	235230_at	Hs,655022		
	3.6	235556_at	Hs,656072		
	3.5	221590_s_at	Hs,663176 /// Hs,708053		
	3.4	227051_at	Hs,43047		
	3.3	226192_at	Hs,76704		
	3.3	217540_at	Hs,598134		
	3.2	242245_at	Hs,533853		
	3.2	1558105_a_at	Hs,91389		
	3.1	228740_at	Hs,26766		
	3.1	215287_at	Hs,128434		
	2.9	230161_at	Hs,495605		
	2.8	238178_at	Hs,559668		
	2.6	243299_at	Hs,666703		
	2.6	227368_at	Hs,663281		
	2.5	235046_at	Hs,176376		
	2.5	242289_at	---		
	2.5	234986_at	Hs,596052		
	2.4	226197_at	Hs,76704		
	2.4	228333_at	Hs,621487		
	2.4	225055_at	Hs,655146		
	2.3	244663_at	Hs,156256		
	2.3	1556346_at	Hs,660628		
	2.3	234987_at	Hs,660221		
	2.3	222111_at	Hs,595286		
	2.3	235782_at	Hs,527515		
	2.3	238658_at	Hs,444083		
	2.3	228812_at	Hs,633900		
	2.3	229885_at	Hs,572073		
	2.2	AFFX-r2-Bs-phe-5_at	---		
	2.2	235010_at	Hs,706957		
	2.2	229130_at	Hs,400256		
	2.1	235505_s_at	Hs,40966		
	2.1	226520_at	Hs,658311		
	2.1	230300_at	Hs,586550		
	2.1	213158_at	Hs,592414		
	2.1	232429_at	Hs,594784		
	2	239866_at	Hs,119940		
	2	1558401_at	Hs,408497		

Extracellular Space	-30.9	1556316_s_at	Hs,707281	MIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
	-2.3	228312_at	Hs,25391	PI16	peptidase inhibitor 16
Plasma Membrane	-18	1567213_at	Hs,409965	PNN	pinin, desmosome associated protein
	-8.5	224321_at	Hs,144513	TMEFF2	transmembrane protein with EGF-like and two follistatin-like domains 2
	-5	1555826_at	Hs,713220	EPR1	effector cell peptidase receptor 1 (non-protein coding)
	-3.8	209972_s_at	Hs,301613	JTV1	JTV1 gene
	-3.3	230253_at	Hs,12923	SCUBE3	signal peptide, CUB domain, EGF-like 3
	-3	213002_at	---	MARCKS (includes EG:4082)	myristoylated alanine-rich protein kinase C substrate
	-2.4	220558_x_at	Hs,271954	TSPAN32	tetraspanin 32
	-2.4	1554428_s_at	Hs,26229	NLGN2	neuroligin 2
	-2.1	208600_s_at	Hs,432395	GPR39	G protein-coupled receptor 39
	Cytoplasm	-19.9	213350_at	Hs,433529	RPS11
-10		200908_s_at	Hs,437594	RPLP2	ribosomal protein, large, P2
-8.5		213642_at	---	RPL27	ribosomal protein L27
-7.6		219138_at	Hs,446522	RPL14	ribosomal protein L14
-6.5		214315_x_at	Hs,515162	CALR	calreticulin
-6.3		202028_s_at	Hs,380953	RPL38 (includes EG:6169)	ribosomal protein L38
-5.9		201171_at	Hs,484188	ATP6V0E1	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1
-5.5		202648_at	---	RPS19	ribosomal protein S19
-5.1		221943_x_at	Hs,380953	RPL38 (includes EG:6169)	ribosomal protein L38
-4.7		214313_s_at	Hs,158688	EIF5B	eukaryotic translation initiation factor 5B
-4.6		228204_at	Hs,89545	PSMB4	proteasome (prosome, macropain) subunit, beta type, 4
-4.4		214041_x_at	Hs,433701	RPL37A (includes EG:6168)	ribosomal protein L37a
-3.7		214001_x_at	Hs,406620	RPS10	ribosomal protein S10
-3.6		229076_s_at	Hs,595072	TOMM22	translocase of outer mitochondrial membrane 22 homolog (yeast)
-3.4		228498_at	Hs,272011	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
-3.2		212953_x_at	Hs,515162	CALR	calreticulin
-2.9		213753_x_at	Hs,534314	EIF5A	eukaryotic translation initiation factor 5A
-2.8		201205_at	---	RRBP1	ribosome binding protein 1 homolog 180kDa (dog)
-2.8		200888_s_at	Hs,406300	RPL23	ribosomal protein L23
-2.7		213621_s_at	Hs,376933	GUK1	guanylate kinase 1
-2.7		231505_s_at	Hs,655168	SFXN4	sideroflexin 4
-2.5		201122_x_at	Hs,534314	EIF5A	eukaryotic translation initiation factor 5A
-2.5		214244_s_at	Hs,484188	ATP6V0E1	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1
-2.4		216450_x_at	Hs,192374	HSP90B1	heat shock protein 90kDa beta (Grp94), member 1
-2.4		213736_at	Hs,1342	COX5B	cytochrome c oxidase subunit Vb
-2.3		214052_x_at	Hs,494614	BAT2D1	BAT2 domain containing 1
-2.3		221960_s_at	Hs,369017	RAB2A	RAB2A, member RAS oncogene family
-2.2		201883_s_at	Hs,272011	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
-2.1		221660_at	Hs,247831	MYLC2PL	myosin light chain 2, precursor lymphocyte-specific
Nucleus		-9.7	222027_at	Hs,213061	NUCKS1
	-5.4	212044_s_at	Hs,523463	RPL27A (includes EG:6157)	ribosomal protein L27a
	-4.4	234464_s_at	Hs,514330	EME1	essential meiotic endonuclease 1 homolog 1 (S. pombe)
	-3.3	228208_x_at	Hs,709873	ZNF354C	zinc finger protein 354C
	-2.8	225555_x_at	Hs,658138	AURKAIP1	aurora kinase A interacting protein 1
	-2.8	201774_s_at	Hs,5719	NCAPD2	non-SMC condensin I complex, subunit D2
	-2.7	218565_at	Hs,224137	C9ORF114	chromosome 9 open reading frame 114
	-2.6	213979_s_at	Hs,208597	CTBP1	C-terminal binding protein 1
	-2.4	205021_s_at	Hs,434286	FOXN3	forkhead box N3
	-2.4	221350_at	Hs,664500	HOXC8	homeobox C8
	-2.2	213091_at	Hs,371096	CRTC1	CREB regulated transcription coactivator 1
	-2.1	209057_x_at	Hs,485471	CDC5L	CDC5 cell division cycle 5-like (S. pombe)
	-26.9	213875_x_at	Hs,519930	C6ORF62	chromosome 6 open reading frame 62
	-13	224346_at	---	C2ORF56	chromosome 2 open reading frame 56
	-10.5	230034_x_at	Hs,709896	LOC100129015	hypothetical protein LOC100129015

-7.8	226014_at	---	<b>LOC100133577</b>	hypothetical protein LOC100133577
-5	229420_at	Hs,632573	<b>HCG 16001</b>	ribosomal protein L23a pseudogene 42
-4.5	229538_s_at	Hs,591495	<b>IQGAP3</b>	IQ motif containing GTPase activating protein 3
-4.1	225423_x_at	Hs,709896	<b>LOC100129015</b>	hypothetical protein LOC100129015
-3.9	213297_at	Hs,519804	<b>RMND5B</b>	required for meiotic nuclear division 5 homolog B (S. cerevisiae)
-3.6	222487_s_at	Hs,108957	<b>RPS27L (includes EG:51065)</b>	ribosomal protein S27-like
-3.1	225934_at	Hs,182698	<b>LOC148413</b>	hypothetical LOC148413
-3.1	221936_x_at	Hs,709896	<b>LOC100129015</b>	hypothetical protein LOC100129015
-2.8	221997_s_at	Hs,355935	<b>MRPL52</b>	mitochondrial ribosomal protein L52
-2.5	211531_x_at	Hs,631726	<b>PRB2</b>	proline-rich protein BstNI subfamily 2
-2.2	224271_x_at	Hs,652967	<b>FRMD8</b>	FERM domain containing 8
-2.2	1564257_at	Hs,713690	<b>LOC100132116</b>	hypothetical LOC100132116
-10.2	222968_at	---		
-5.9	231387_at	Hs,712966		
-5.4	216554_s_at	---		
-4.1	234225_at	---		
-3.7	221995_s_at	---		
-3.7	210098_s_at	---		
-3.5	1563431_x_at	Hs,713288		
-3	212952_at	Hs,593218		
-2.9	1567913_at	Hs,621508		
-2.8	216246_at	---		
-2.7	230750_at	Hs,594199		
-2.7	213048_s_at	---		
-2.6	214395_x_at	Hs,707453		
-2.4	213813_x_at	---		
-2.4	211454_x_at	---		
-2.3	233810_x_at	---		
-2.2	229798_s_at	---		
-2.2	221419_s_at	---		
-2.1	1567105_at	---		
-2.1	224375_at	---		

**Table S4. Genes differentially expressed in HD-MS-C+TNF/LT compared with HD-MS-C**

Red line indicates genes overexpressed in HD-MS-C stimulated by TNF+LT for 3 days compared to unstimulated HD-MS-C and green line indicates genes overexpressed in resting HD-MS-C

Fold change indicates the ratio of mean expression in HD-MS-C treated by TNF+LT/mean expression in resting HD-MS-C when FC>2;

or -1/(ratio of mean expression in HD-MS-C treated by TNF+LT/mean expression in resting HD-MS-C) when FC< .5.

Location	Fold Change	ProbeSet ID	UniGene ID	Gene Symbol	Gene Name
Extracellular Space	2171.6	204655_at	Hs.514821	CCL5	chemokine (C-C motif) ligand 5
	2036.6	202859_x_at	Hs.624	IL8	interleukin 8
	1035.1	1405_i_at	Hs.514821	CCL5	chemokine (C-C motif) ligand 5
	876.1	1555759_a_at	Hs.514821	CCL5	chemokine (C-C motif) ligand 5
	358.3	211506_s_at	Hs.624	IL8	interleukin 8
	247	39402_at	Hs.126256	IL1B	interleukin 1, beta
	138	202357_s_at	Hs.408903	C2	complement component 2
	125.1	203828_s_at	Hs.943	IL32	interleukin 32
	118.9	214974_x_at	Hs.89714	CXCL5	chemokine (C-X-C motif) ligand 5
	93.1	210118_s_at	Hs.1722	IL1A	interleukin 1, alpha
	89.8	206336_at	Hs.164021	CXCL6	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
	81.1	207426_s_at	Hs.181097	TNFSF4	tumor necrosis factor (ligand) superfamily, member 4
	66.6	205067_at	Hs.126256	IL1B	interleukin 1, beta
	61.3	204858_s_at	Hs.592212	TYMP	thymidine phosphorylase
	54.7	216598_s_at	Hs.303649	CCL2	chemokine (C-C motif) ligand 2
	40.5	235737_at	Hs.389874	TSLP	thymic stromal lymphopoietin
	25.2	209840_s_at	Hs.3781	LRRN3	leucine rich repeat neuronal 3
	24.6	205483_s_at	Hs.458485	ISG15 (includes EG	ISG15 ubiquitin-like modifier
	22.3	209267_s_at	Hs.288034	SLC39A8	solute carrier family 39 (zinc transporter), member 8
	18.3	205992_s_at	Hs.654378	IL15	interleukin 15
	16.7	206025_s_at	Hs.437322	TNFAIP6	tumor necrosis factor, alpha-induced protein 6
	13.4	206026_s_at	Hs.437322	TNFAIP6	tumor necrosis factor, alpha-induced protein 6
	13.4	209841_s_at	Hs.3781	LRRN3	leucine rich repeat neuronal 3
	12.4	206254_at	Hs.419815	EGF	epidermal growth factor (beta-urogastrone)
	11.7	202510_s_at	Hs.525607	TNFAIP2	tumor necrosis factor, alpha-induced protein 2
	10.8	209277_at	Hs.438231	TFPI2	tissue factor pathway inhibitor 2
	8.7	241986_at	Hs.660998	BMPER	BMP binding endothelial regulator
	7.5	213817_at	Hs.594861	IRAK3	interleukin-1 receptor-associated kinase 3
	6.7	208747_s_at	Hs.458355	C1S	complement component 1, s subcomponent
	6.4	205174_s_at	Hs.79033	QPCT (includes EG	glutaminyl-peptide cyclotransferase
	6.1	211596_s_at	Hs.518055	LRIG1	leucine-rich repeats and immunoglobulin-like domains 1
	5.7	205207_at	Hs.654458	IL6	interleukin 6 (interferon, beta 2)
	5.3	209788_s_at	Hs.436186	ERAP1	endoplasmic reticulum aminopeptidase 1
	5.3	211896_s_at	Hs.706262	DCN	decorin
	5	1552312_a_at	Hs.432818	MFAP3	microfibrillar-associated protein 3
	5	203788_s_at	Hs.269109	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
	4.9	212067_s_at	Hs.524224	C1R	complement component 1, r subcomponent
	4.9	209335_at	Hs.706262	DCN	decorin
	4.8	206814_at	Hs.2561	NGF	nerve growth factor (beta polypeptide)
	4.7	204614_at	Hs.594481	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2
	4.7	209278_s_at	Hs.438231	TFPI2	tissue factor pathway inhibitor 2
	4.5	201744_s_at	Hs.406475	LUM	lumican
	4.5	220147_s_at	Hs.505154	FAM60A (includes I	family with sequence similarity 60, member A
	4.3	217738_at	Hs.489615	NAMPT	nicotinamide phosphoribosyltransferase
	4.2	38037_at	Hs.799	HBEGF	heparin-binding EGF-like growth factor
	3.9	217739_s_at	Hs.489615	NAMPT	nicotinamide phosphoribosyltransferase
	3.8	214719_at	Hs.117167	SLC46A3	solute carrier family 46, member 3
	3.8	219201_s_at	Hs.514685	TWSG1	twisted gastrulation homolog 1 (Drosophila)
	3.6	218587_s_at	Hs.231750	KTELC1	KTEL (Lys-Tyr-Glu-Leu) containing 1
	3.6	221577_x_at	Hs.616962	GDF15	growth differentiation factor 15
	3.6	213800_at	Hs.363396	CFH	complement factor H
	3.5	207595_s_at	Hs.1274	BMP1	bone morphogenetic protein 1
	3.5	201893_x_at	Hs.706262	DCN	decorin
	3.4	203789_s_at	Hs.269109	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
	3.3	218983_at	Hs.631730	C1RL	complement component 1, r subcomponent-like
	3.3	210385_s_at	Hs.436186	ERAP1	endoplasmic reticulum aminopeptidase 1

	3.3	211813_x_at	Hs.706262	<b>DCN</b>	decorin
	3.3	221553_at	Hs.660548	<b>MAGT1</b>	magnesium transporter 1
	3.1	205574_x_at	Hs.1274	<b>BMP1</b>	bone morphogenetic protein 1
	3	212915_at	Hs.714313	<b>PDZRN3</b>	PDZ domain containing ring finger 3
	3	1555778_a_at	Hs.136348	<b>POSTN</b>	periostin, osteoblast specific factor
	3	222681_at	Hs.231750	<b>KTELC1</b>	KTEL (Lys-Tyr-Glu-Leu) containing 1
	2.9	209909_s_at	Hs.133379	<b>TGFB2</b>	transforming growth factor, beta 2
	2.9	203821_at	Hs.799	<b>HBEGF</b>	heparin-binding EGF-like growth factor
	2.7	222802_at	Hs.511899	<b>EDN1</b>	endothelin 1
	2.6	202283_at	Hs.694727	<b>SERPINF1</b>	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
	2.6	212667_at	Hs.111779	<b>SPARC</b>	secreted protein, acidic, cysteine-rich (osteonectin)
	2.4	204422_s_at	Hs.284244	<b>FGF2</b>	fibroblast growth factor 2 (basic)
	2.4	226609_at	Hs.658304	<b>DCBLD1</b>	discoidin, CUB and LCCL domain containing 1
	2.4	218995_s_at	Hs.511899	<b>EDN1</b>	endothelin 1
	2.4	208454_s_at	Hs.156178	<b>PGCP</b>	plasma glutamate carboxypeptidase
	2.3	201852_x_at	Hs.443625	<b>COL3A1</b>	collagen, type III, alpha 1
	2.3	202311_s_at	Hs.172928	<b>COL1A1</b>	collagen, type I, alpha 1
	2.3	203417_at	Hs.389137	<b>MFAP2</b>	microfibrillar-associated protein 2
	2.2	225406_at	Hs.514685	<b>TWSG1</b>	twisted gastrulation homolog 1 (Drosophila)
	2.2	213397_x_at	---	<b>RNASE4</b>	ribonuclease, RNase A family, 4
	2.2	214247_s_at	Hs.292156	<b>DKK3</b>	dickkopf homolog 3 (Xenopus laevis)
	2.1	1557116_at	Hs.257352	<b>APOL6</b>	apolipoprotein L, 6
	2.1	224733_at	Hs.298198	<b>CMTM3</b>	CKLF-like MARVEL transmembrane domain containing 3
	2.1	213624_at	Hs.486357	<b>SMPDL3A</b>	sphingomyelin phosphodiesterase, acid-like 3A
<b>Plasma Membrane</b>	967.4	202638_s_at	Hs.707983	<b>ICAM1</b>	intercellular adhesion molecule 1
	596.2	203632_s_at	Hs.148685	<b>GPRC5B</b>	G protein-coupled receptor, family C, group 5, member B
	405	222549_at	Hs.439060	<b>CLDN1</b>	claudin 1
	226.6	202637_s_at	Hs.707983	<b>ICAM1</b>	intercellular adhesion molecule 1
	120.4	201641_at	Hs.118110	<b>BST2</b>	bone marrow stromal cell antigen 2
	50.2	207536_s_at	Hs.654459	<b>TNFRSF9</b>	tumor necrosis factor receptor superfamily, member 9
	48.3	224579_at	Hs.709304	<b>SLC38A1</b>	solute carrier family 38, member 1
	46.5	225511_at	Hs.148685	<b>GPRC5B</b>	G protein-coupled receptor, family C, group 5, member B
	43	204440_at	Hs.654558	<b>CD83</b>	CD83 molecule
	26.4	201079_at	Hs.464210	<b>SYNGR2</b>	synaptogyrin 2
	22.9	213620_s_at	Hs.431460	<b>ICAM2</b>	intercellular adhesion molecule 2
	22.3	207528_s_at	Hs.390594	<b>SLC7A11</b>	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11
	20.9	205421_at	Hs.567337	<b>SLC22A3</b>	solute carrier family 22 (extraneuronal monoamine transporter), member 3
	18.9	231779_at	Hs.449207	<b>IRAK2</b>	interleukin-1 receptor-associated kinase 2
	16.1	217678_at	Hs.390594	<b>SLC7A11</b>	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11
	15.3	211844_s_at	Hs.471200	<b>NRP2</b>	neuropilin 2
	13.9	201195_s_at	Hs.513797	<b>SLC7A5</b>	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
	13.3	210119_at	Hs.411299	<b>KCNJ15</b>	potassium inwardly-rectifying channel, subfamily J, member 15
	11.6	220091_at	Hs.244378	<b>SLC2A6</b>	solute carrier family 2 (facilitated glucose transporter), member 6
	11	203504_s_at	Hs.429294	<b>ABCA1</b>	ATP-binding cassette, sub-family A (ABC1), member 1
	9.3	209921_at	Hs.390594	<b>SLC7A11</b>	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11
	8.8	214632_at	Hs.471200	<b>NRP2</b>	neuropilin 2
	8.4	205173_x_at	Hs.34341	<b>CD58</b>	CD58 molecule
	8	216942_s_at	Hs.34341	<b>CD58</b>	CD58 molecule
	7.5	203066_at	Hs.287537	<b>GALNAC4S-6ST</b>	B cell RAG associated protein
	7	218182_s_at	Hs.439060	<b>CLDN1</b>	claudin 1
	7	204786_s_at	Hs.708195	<b>IFNAR2</b>	interferon (alpha, beta and omega) receptor 2
	7	203717_at	Hs.368912	<b>DPP4</b>	dipeptidyl-peptidase 4
	6.8	219213_at	Hs.517227	<b>JAM2</b>	junctional adhesion molecule 2
	6.5	211676_s_at	Hs.520414	<b>IFNGR1</b>	interferon gamma receptor 1
	6.4	213100_at	Hs.522997	<b>UNC5B</b>	unc-5 homolog B (C. elegans)
	6.3	206271_at	Hs.657724	<b>TLR3</b>	toll-like receptor 3
	6.3	227314_at	Hs.482077	<b>ITGA2</b>	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
	6.1	202727_s_at	Hs.520414	<b>IFNGR1</b>	interferon gamma receptor 1
	6.1	202446_s_at	Hs.130759	<b>PLSCR1</b>	phospholipid scramblase 1
	6	225566_at	Hs.471200	<b>NRP2</b>	neuropilin 2
	5.7	209681_at	Hs.30246	<b>SLC19A2</b>	solute carrier family 19 (thiamine transporter), member 2
	5.5	227669_at	Hs.517768	<b>BRP44</b>	brain protein 44
	5.3	226218_at	Hs.635723	<b>IL7R</b>	interleukin 7 receptor

5.3	210405_x_at	Hs.521456	<b>TNFRSF10B</b>	tumor necrosis factor receptor superfamily, member 10b
5.2	219229_at	Hs.311187	<b>SLCO3A1</b>	solute carrier organic anion transporter family, member 3A1
5.2	204715_at	Hs.591976	<b>PANX1</b>	pannexin 1
5	205715_at	Hs.714863	<b>BST1</b>	bone marrow stromal cell antigen 1
4.8	207510_at	Hs.525572	<b>BDKRB1</b>	bradykinin receptor B1
4.8	200924_s_at	Hs.502769	<b>SLC3A2</b>	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
4.6	204271_s_at	Hs.82002	<b>EDNRB</b>	endothelin receptor type B
4.6	204806_x_at	Hs.519972	<b>HLA-F</b>	major histocompatibility complex, class I, F
4.6	213909_at	Hs.288467	<b>LRRC15</b>	leucine rich repeat containing 15
4.5	213194_at	Hs.13640	<b>ROBO1</b>	roundabout, axon guidance receptor, homolog 1 (Drosophila)
4.5	202952_s_at	Hs.655388	<b>ADAM12</b>	ADAM metallopeptidase domain 12
4.3	223249_at	Hs.258576	<b>CLDN12</b>	claudin 12
4.3	203441_s_at	Hs.464829	<b>CDH2</b>	cadherin 2, type 1, N-cadherin (neuronal)
4.3	230425_at	Hs.116092	<b>EPHB1</b>	EPH receptor B1
4.3	205327_s_at	Hs.470174	<b>ACVR2A</b>	activin A receptor, type IIA
4.2	203233_at	Hs.513457	<b>IL4R</b>	interleukin 4 receptor
4.2	209131_s_at	Hs.714805	<b>SNAP23</b>	synaptosomal-associated protein, 23kDa
4.2	209294_x_at	Hs.521456	<b>TNFRSF10B</b>	tumor necrosis factor receptor superfamily, member 10b
4.1	221875_x_at	Hs.519972	<b>HLA-F</b>	major histocompatibility complex, class I, F
4.1	209147_s_at	Hs.696231	<b>PPAP2A</b>	phosphatidic acid phosphatase type 2A
4.1	211799_x_at	Hs.654404	<b>HLA-C</b>	major histocompatibility complex, class I, C
4	203868_s_at	Hs.109225	<b>VCAM1</b>	vascular cell adhesion molecule 1
3.9	212110_at	Hs.491232	<b>SLC39A14</b>	solute carrier family 39 (zinc transporter), member 14
3.8	223499_at	Hs.632102	<b>C1QTNF5</b>	C1q and tumor necrosis factor related protein 5
3.8	208729_x_at	Hs.654404	<b>HLA-B</b>	major histocompatibility complex, class I, B
3.7	204396_s_at	Hs.524625	<b>GRK5</b>	G protein-coupled receptor kinase 5
3.7	1554557_at	Hs.478429	<b>ATP11B</b>	ATPase, class VI, type 11B
3.7	203125_x_at	Hs.505545	<b>SLC11A2</b>	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
3.7	211529_x_at	Hs.512152	<b>HLA-G</b>	major histocompatibility complex, class I, G
3.7	214544_s_at	Hs.714805	<b>SNAP23</b>	synaptosomal-associated protein, 23kDa
3.6	209655_s_at	Hs.8769	<b>TMEM47</b>	transmembrane protein 47
3.6	221872_at	Hs.131269	<b>RARRES1</b>	retinoic acid receptor responder (tazarotene induced) 1
3.6	215716_s_at	Hs.506276	<b>ATP2B1</b>	ATPase, Ca++ transporting, plasma membrane 1
3.5	232060_at	Hs.654491	<b>ROR1</b>	receptor tyrosine kinase-like orphan receptor 1
3.4	207177_at	Hs.654365	<b>PTGFR</b>	prostaglandin F receptor (FP)
3.4	32042_at	Hs.171458	<b>ENOX2</b>	ecto-NOX disulfide-thiol exchanger 2
3.3	228239_at	Hs.656195	<b>FAM165B</b>	family with sequence similarity 165, member B
3.3	211911_x_at	Hs.549053	<b>HLA-B</b>	major histocompatibility complex, class I, B
3.3	227396_at	Hs.318547	<b>PTPRJ</b>	protein tyrosine phosphatase, receptor type, J
3.3	235198_at	Hs.714731	<b>OSTM1</b>	osteopetrosis associated transmembrane protein 1
3.2	209610_s_at	Hs.654352	<b>SLC1A4</b>	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4
3.2	224341_x_at	Hs.174312	<b>TLR4</b>	toll-like receptor 4
3.2	211528_x_at	Hs.512152	<b>HLA-G</b>	major histocompatibility complex, class I, G
3.2	204932_at	Hs.81791	<b>TNFRSF11B</b>	tumor necrosis factor receptor superfamily, member 11b
3.2	201875_s_at	Hs.493919	<b>MPZL1</b>	myelin protein zero-like 1
3.1	203971_at	Hs.532315	<b>SLC31A1</b>	solute carrier family 31 (copper transporters), member 1
3.1	203987_at	Hs.591863	<b>FZD6</b>	frizzled homolog 6 (Drosophila)
3.1	226825_s_at	Hs.479766	<b>TMEM165</b>	transmembrane protein 165
3.1	209545_s_at	Hs.103755	<b>RIPK2</b>	receptor-interacting serine-threonine kinase 2
3.1	210594_x_at	Hs.493919	<b>MPZL1</b>	myelin protein zero-like 1
3.1	210087_s_at	Hs.493919	<b>MPZL1</b>	myelin protein zero-like 1
3.1	209295_at	Hs.521456	<b>TNFRSF10B</b>	tumor necrosis factor receptor superfamily, member 10b
3.1	226045_at	Hs.593446	<b>FRS2</b>	fibroblast growth factor receptor substrate 2
3.1	208456_s_at	Hs.502004	<b>RRAS2</b>	related RAS viral (r-ras) oncogene homolog 2
3.1	219125_s_at	Hs.292154	<b>RAG1AP1</b>	recombination activating gene 1 activating protein 1
3	212811_x_at	Hs.654352	<b>SLC1A4</b>	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4
3	230875_s_at	Hs.29189	<b>ATP11A</b>	ATPase, class VI, type 11A
3	208925_at	Hs.709386	<b>CLDN1</b>	claudin domain containing 1
3	218196_at	Hs.226780	<b>OSTM1</b>	osteopetrosis associated transmembrane protein 1
3	213353_at	Hs.421474	<b>ABCA5</b>	ATP-binding cassette, sub-family A (ABC1), member 5
3	218901_at	Hs.477869	<b>PLSCR4</b>	phospholipid scramblase 4
2.9	204785_x_at	Hs.708195	<b>IFNAR2</b>	interferon (alpha, beta and omega) receptor 2
2.9	210946_at	Hs.696231	<b>PPAP2A</b>	phosphatidic acid phosphatase type 2A



2.9	205618_at	Hs.190341	<b>PRRG1</b>	proline rich Gla (G-carboxyglutamic acid) 1
2.8	219134_at	Hs.132314	<b>ELTD1</b>	EGF, latrophilin and seven transmembrane domain containing 1
2.8	202234_s_at	Hs.75231	<b>SLC16A1</b>	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)
2.8	204191_at	Hs.529400	<b>IFNAR1</b>	interferon (alpha, beta and omega) receptor 1
2.7	1555780_a_at	Hs.647068	<b>RHEB</b>	Ras homolog enriched in brain
2.7	1558115_at	Hs.714748	<b>RECK</b>	reversion-inducing-cysteine-rich protein with kazal motifs
2.7	218856_at	Hs.443577	<b>TNFRSF21</b>	tumor necrosis factor receptor superfamily, member 21
2.7	201642_at	Hs.634632	<b>IFNGR2</b>	interferon gamma receptor 2 (interferon gamma transducer 1)
2.7	210514_x_at	Hs.512152	<b>HLA-G</b>	major histocompatibility complex, class I, G
2.7	208783_s_at	Hs.510402	<b>CD46</b>	CD46 molecule, complement regulatory protein
2.7	201647_s_at	Hs.349656	<b>SCARB2</b>	scavenger receptor class B, member 2
2.6	220092_s_at	Hs.165859	<b>ANTXR1</b>	anthrax toxin receptor 1
2.6	220253_s_at	Hs.654804	<b>LRP12</b>	low density lipoprotein-related protein 12
2.6	201874_at	Hs.493919	<b>MPZL1</b>	myelin protein zero-like 1
2.6	204204_at	Hs.24030	<b>SLC31A2</b>	solute carrier family 31 (copper transporters), member 2
2.6	212930_at	Hs.506276	<b>ATP2B1</b>	ATPase, Ca <sup>++</sup> transporting, plasma membrane 1
2.6	204726_at	Hs.654386	<b>CDH13</b>	cadherin 13, H-cadherin (heart)
2.6	225243_s_at	Hs.476432	<b>SLMAP</b>	sarcolemma associated protein
2.6	226353_at	Hs.401537	<b>SPPL2A</b>	signal peptide peptidase-like 2A
2.6	203304_at	Hs.714756	<b>BAMBI</b>	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)
2.5	215707_s_at	Hs.472010	<b>PRNP</b>	prion protein
2.5	202514_at	Hs.292549	<b>DLG1</b>	discs, large homolog 1 (Drosophila)
2.5	225059_at	Hs.464438	<b>AGTRAP</b>	angiotensin II receptor-associated protein
2.5	211530_x_at	Hs.512152	<b>HLA-G</b>	major histocompatibility complex, class I, G
2.5	227059_at	Hs.444329	<b>GPC6</b>	glypican 6
2.5	219572_at	Hs.708214	<b>CADPS2</b>	Ca <sup>++</sup> dependent secretion activator 2
2.5	218095_s_at	Hs.479766	<b>TMEM165</b>	transmembrane protein 165
2.5	211535_s_at	Hs.264887	<b>FGFR1</b>	fibroblast growth factor receptor 1
2.5	212196_at	Hs.532082	<b>IL6ST</b>	interleukin 6 signal transducer (gp130, oncostatin M receptor)
2.5	1555736_a_at	Hs.464438	<b>AGTRAP</b>	angiotensin II receptor-associated protein
2.4	235068_at	Hs.649522	<b>ZDHHC21</b>	zinc finger, DHHC-type containing 21
2.4	201302_at	Hs.422986	<b>ANXA4</b>	annexin A4
2.4	243463_s_at	Hs.491234	<b>RIT1</b>	Ras-like without CAAX 1
2.4	203440_at	Hs.464829	<b>CDH2</b>	cadherin 2, type 1, N-cadherin (neuronal)
2.4	226651_at	Hs.591761	<b>HOMER1</b>	homer homolog 1 (Drosophila)
2.4	224709_s_at	Hs.508829	<b>CDC42SE2</b>	CDC42 small effector 2
2.4	209900_s_at	Hs.75231	<b>SLC16A1</b>	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)
2.4	203124_s_at	Hs.505545	<b>SLC11A2</b>	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
2.4	200620_at	Hs.523262	<b>TMEM59 (includes</b>	transmembrane protein 59
2.4	209656_s_at	Hs.8769	<b>TMEM47</b>	transmembrane protein 47
2.3	1558116_x_at	Hs.714748	<b>RECK</b>	reversion-inducing-cysteine-rich protein with kazal motifs
2.3	203042_at	Hs.496684	<b>LAMP2</b>	lysosomal-associated membrane protein 2
2.3	224793_s_at	Hs.494622	<b>TGFBR1</b>	transforming growth factor, beta receptor 1
2.3	225847_at	Hs.444099	<b>AADAACL1</b>	arylacetamide deacetylase-like 1
2.3	212632_at	Hs.593148	<b>STX7</b>	syntaxin 7
2.3	213728_at	Hs.494419	<b>LAMP1</b>	lysosomal-associated membrane protein 1
2.2	209882_at	Hs.491234	<b>RIT1</b>	Ras-like without CAAX 1
2.2	202351_at	Hs.436873	<b>ITGAV</b>	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
2.2	203045_at	Hs.494457	<b>NINJ1</b>	ninjurin 1
2.2	212111_at	Hs.523855	<b>STX12</b>	syntaxin 12
2.2	202947_s_at	Hs.59138	<b>GYPC</b>	glycophorin C (Gerbich blood group)
2.2	200821_at	Hs.496684	<b>LAMP2</b>	lysosomal-associated membrane protein 2
2.2	219492_at	Hs.335393	<b>CHIC2</b>	cysteine-rich hydrophobic domain 2
2.2	236217_at	Hs.532315	<b>SLC31A1</b>	solute carrier family 31 (copper transporters), member 1
2.2	203123_s_at	Hs.505545	<b>SLC11A2</b>	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
2.1	214459_x_at	Hs.654404	<b>HLA-C</b>	major histocompatibility complex, class I, C
2.1	200973_s_at	Hs.5062	<b>TSPAN3</b>	tetraspanin 3
2.1	228181_at	Hs.519469	<b>SLC30A1</b>	solute carrier family 30 (zinc transporter), member 1
2.1	217456_x_at	Hs.650174	<b>HLA-E</b>	major histocompatibility complex, class I, E
2.1	223090_x_at	Hs.24135	<b>VEZT</b>	vezatin, adherens junctions transmembrane protein
2.1	211075_s_at	Hs.446414	<b>CD47</b>	CD47 molecule
2	221584_s_at	Hs.144795	<b>KCNMA1</b>	potassium large conductance calcium-activated channel, subfamily M, alpha member 1
2	203041_s_at	Hs.496684	<b>LAMP2</b>	lysosomal-associated membrane protein 2

## Cytoplasm

297.9	210538_s_at	Hs.127799	<b>BIRC3</b>	baculoviral IAP repeat-containing 3
240.1	204224_s_at	Hs.86724	<b>GCH1</b>	GTP cyclohydrolase 1
166.5	204802_at	Hs.1027	<b>RRAD</b>	Ras-related associated with diabetes
159.9	221477_s_at	Hs.487046	<b>SOD2</b>	superoxide dismutase 2, mitochondrial
131.6	202411_at	Hs.532634	<b>IFI27</b>	interferon, alpha-inducible protein 27
129.6	220892_s_at	Hs.494261	<b>PSAT1</b>	phosphoserine aminotransferase 1
119	204939_s_at	Hs.170839	<b>PLN</b>	phospholamban
89.2	202902_s_at	Hs.181301	<b>CTSS</b>	cathepsin S
77.7	215223_s_at	Hs.487046	<b>SOD2</b>	superoxide dismutase 2, mitochondrial
70.5	204803_s_at	Hs.1027	<b>RRAD</b>	Ras-related associated with diabetes
51.4	216841_s_at	Hs.487046	<b>SOD2</b>	superoxide dismutase 2, mitochondrial
43.6	202901_x_at	Hs.181301	<b>CTSS</b>	cathepsin S
43.4	209928_s_at	Hs.442619	<b>MSC (includes EG:f</b>	musculin (activated B-cell factor-1)
38.1	204285_s_at	Hs.96	<b>PMAIP1</b>	phorbol-12-myristate-13-acetate-induced protein 1
32	202295_s_at	Hs.148641	<b>CTSH</b>	cathepsin H
29.4	226181_at	Hs.34851	<b>TUBE1</b>	tubulin, epsilon 1
29.2	202887_s_at	Hs.523012	<b>DDIT4</b>	DNA-damage-inducible transcript 4
27	223062_s_at	Hs.494261	<b>PSAT1</b>	phosphoserine aminotransferase 1
26.3	213256_at	Hs.132441	<b>MARCH3</b>	membrane-associated ring finger (C3HC4) 3
25.7	204415_at	Hs.511731	<b>IFI6</b>	interferon, alpha-inducible protein 6
24.1	204286_s_at	Hs.96	<b>PMAIP1</b>	phorbol-12-myristate-13-acetate-induced protein 1
23.6	212816_s_at	Hs.533013	<b>CBS (includes EG:f</b>	cystathionine-beta-synthase
21.8	202847_at	Hs.75812	<b>PCK2</b>	phosphoenolpyruvate carboxykinase 2 (mitochondrial)
20.1	204493_at	Hs.591054	<b>BID</b>	BH3 interacting domain death agonist
18.4	239629_at	Hs.390736	<b>CFLAR</b>	CASP8 and FADD-like apoptosis regulator
18.3	202626_s_at	Hs.699154	<b>LYN</b>	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
17.3	232617_at	Hs.181301	<b>CTSS</b>	cathepsin S
15.6	217127_at	Hs.19904	<b>CTH</b>	cystathionase (cystathionine gamma-lyase)
15.2	202660_at	Hs.512235	<b>ITPR2</b>	inositol 1,4,5-triphosphate receptor, type 2
14.1	238669_at	Hs.201978	<b>PTGS1</b>	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
14.1	211862_x_at	Hs.390736	<b>CFLAR</b>	CASP8 and FADD-like apoptosis regulator
13.6	235489_at	Hs.656339	<b>RHOJ</b>	ras homolog gene family, member J
13.2	201502_s_at	Hs.81328	<b>NFKBIA</b>	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
13	240983_s_at	Hs.274873	<b>CARS</b>	cysteinyI-tRNA synthetase
12.2	202625_at	Hs.699154	<b>LYN</b>	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
11.9	1553972_a_at	Hs.533013	<b>CBS (includes EG:f</b>	cystathionine-beta-synthase
11.8	221087_s_at	Hs.474737	<b>APOL3 (includes E</b>	apolipoprotein L, 3
10.8	213112_s_at	Hs.437277	<b>SQSTM1</b>	sequestosome 1
10.1	207076_s_at	Hs.160786	<b>ASS1</b>	argininosuccinate synthetase 1
9.6	209193_at	Hs.81170	<b>PIM1</b>	pim-1 oncogene
9.5	200628_s_at	Hs.497599	<b>WARS</b>	tryptophanyl-tRNA synthetase
9.3	218319_at	Hs.7886	<b>PELI1</b>	pellino homolog 1 (Drosophila)
9.3	203879_at	Hs.518451	<b>PIK3CD</b>	phosphoinositide-3-kinase, catalytic, delta polypeptide
9.2	208868_s_at	Hs.524250	<b>GABARAPL1</b>	GABA(A) receptor-associated protein like 1
9	210564_x_at	Hs.390736	<b>CFLAR</b>	CASP8 and FADD-like apoptosis regulator
8.7	210563_x_at	Hs.390736	<b>CFLAR</b>	CASP8 and FADD-like apoptosis regulator
8.7	206085_s_at	Hs.19904	<b>CTH</b>	cystathionase (cystathionine gamma-lyase)
8.2	201761_at	Hs.469030	<b>MTHFD2</b>	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methylenetetrahydrofolate cyclohydrolase
8.2	221865_at	Hs.522357	<b>C9ORF91</b>	chromosome 9 open reading frame 91
7.9	209939_x_at	Hs.390736	<b>CFLAR</b>	CASP8 and FADD-like apoptosis regulator
7.8	235252_at	Hs.133534	<b>KSR1</b>	kinase suppressor of ras 1
7.8	232322_x_at	Hs.188606	<b>STARD10</b>	StAR-related lipid transfer (START) domain containing 10
7.6	225868_at	Hs.293660	<b>TRIM47</b>	tripartite motif-containing 47
7.5	204347_at	Hs.10862	<b>AK3L1</b>	adenylate kinase 3-like 1
7.5	230630_at	Hs.10862	<b>AK3L1</b>	adenylate kinase 3-like 1
7.2	215813_s_at	Hs.201978	<b>PTGS1</b>	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
7.2	210754_s_at	Hs.699154	<b>LYN</b>	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
7	201430_s_at	Hs.519659	<b>DPYSL3</b>	dihydropyrimidinase-like 3
6.9	202307_s_at	Hs.352018	<b>TAP1</b>	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
6.8	219024_at	Hs.713566	<b>PLEKHA1</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1
6.6	205128_x_at	Hs.201978	<b>PTGS1</b>	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
6.5	226046_at	Hs.138211	<b>MAPK8</b>	mitogen-activated protein kinase 8
6.5	223195_s_at	Hs.469543	<b>SESN2</b>	sestrin 2

6.2	218170_at	Hs.483296	<b>ISOC1</b>	isochorismatase domain containing 1
6.2	242907_at	---	<b>GBP2</b>	guanylate binding protein 2, interferon-inducible
6.1	223103_at	Hs.188606	<b>STARD10</b>	StAR-related lipid transfer (START) domain containing 10
6	201998_at	Hs.207459	<b>ST6GAL1</b>	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1
6	226247_at	Hs.713566	<b>PLEKHA1</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1
5.9	223196_s_at	Hs.469543	<b>SESN2</b>	sestrin 2
5.9	205139_s_at	Hs.657370	<b>UST</b>	uronyl-2-sulfotransferase
5.9	218574_s_at	Hs.475353	<b>LMCD1</b>	LIM and cysteine-rich domains 1
5.8	211316_x_at	Hs.390736	<b>CFLAR</b>	CASP8 and FADD-like apoptosis regulator
5.7	203964_at	Hs.54483	<b>NMI</b>	N-myc (and STAT) interactor
5.7	210260_s_at	Hs.656274	<b>TNFAIP8</b>	tumor necrosis factor, alpha-induced protein 8
5.6	227143_s_at	Hs.591054	<b>BID</b>	BH3 interacting domain death agonist
5.5	214453_s_at	Hs.82316	<b>IF44</b>	interferon-induced protein 44
5.5	203951_at	Hs.465929	<b>CNN1</b>	calponin 1, basic, smooth muscle
5.5	225894_at	Hs.655519	<b>SYNPO2</b>	synaptopodin 2
5.4	231577_s_at	Hs.62661	<b>GBP1 (includes EG</b>	guanylate binding protein 1, interferon-inducible, 67kDa
5.4	226051_at	Hs.55940	<b>SELM</b>	selenoprotein M
5.4	211725_s_at	Hs.591054	<b>BID</b>	BH3 interacting domain death agonist
5.3	229588_at	Hs.516632	<b>DNAJC10</b>	DnaJ (Hsp40) homolog, subfamily C, member 10
5.3	214452_at	Hs.438993	<b>BCAT1</b>	branched chain aminotransferase 1, cytosolic
5.3	200629_at	Hs.497599	<b>WARS</b>	tryptophanyl-tRNA synthetase
5.2	40148_at	Hs.479602	<b>APBB2</b>	amyloid beta (A4) precursor protein-binding, family B, member 2
5.1	202557_at	Hs.352341	<b>HSPA13</b>	heat shock protein 70kDa family, member 13
5	228772_at	Hs.42151	<b>HNMT</b>	histamine N-methyltransferase
5	204070_at	Hs.17466	<b>RARRES3</b>	retinoic acid receptor responder (tazarotene induced) 3
4.9	208322_s_at	Hs.584803	<b>ST3GAL1</b>	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
4.9	202270_at	Hs.62661	<b>GBP1 (includes EG</b>	guanylate binding protein 1, interferon-inducible, 67kDa
4.8	204085_s_at	Hs.30213	<b>CLN5</b>	ceroid-lipofuscinosis, neuronal 5
4.8	221782_at	Hs.516632	<b>DNAJC10</b>	DnaJ (Hsp40) homolog, subfamily C, member 10
4.8	205501_at	Hs.348762	<b>PDE10A</b>	phosphodiesterase 10A
4.7	226064_s_at	Hs.334305	<b>DGAT2</b>	diacylglycerol O-acyltransferase homolog 2 (mouse)
4.7	204112_s_at	Hs.42151	<b>HNMT</b>	histamine N-methyltransferase
4.7	212321_at	Hs.499984	<b>SGPL1</b>	sphingosine-1-phosphate lyase 1
4.6	208296_x_at	Hs.656274	<b>TNFAIP8</b>	tumor necrosis factor, alpha-induced protein 8
4.5	219343_at	Hs.561954	<b>CDC37L1</b>	cell division cycle 37 homolog (S. cerevisiae)-like 1
4.5	202073_at	Hs.332706	<b>OPTN</b>	optineurin
4.4	202269_x_at	Hs.62661	<b>GBP1 (includes EG</b>	guanylate binding protein 1, interferon-inducible, 67kDa
4.3	209451_at	Hs.556496	<b>TANK</b>	TRAF family member-associated NFKB activator
4.3	221781_s_at	Hs.516632	<b>DNAJC10</b>	DnaJ (Hsp40) homolog, subfamily C, member 10
4.2	204348_s_at	Hs.10862	<b>AK3L1</b>	adenylate kinase 3-like 1
4.1	219773_at	Hs.371036	<b>NOX4</b>	NADPH oxidase 4
4.1	201272_at	Hs.521212	<b>AKR1B1</b>	aldo-keto reductase family 1, member B1 (aldose reductase)
4.1	226799_at	Hs.506381	<b>FGD6</b>	FYVE, RhoGEF and PH domain containing 6
4.1	201397_at	Hs.487296	<b>PHGDH</b>	phosphoglycerate dehydrogenase
4.1	204214_s_at	Hs.287714	<b>RAB32</b>	RAB32, member RAS oncogene family
4	228967_at	Hs.150580	<b>EIF1</b>	eukaryotic translation initiation factor 1
4	235745_at	Hs.700027	<b>ERN1</b>	endoplasmic reticulum to nucleus signaling 1
4	225604_s_at	Hs.493819	<b>GLIPR2</b>	GLI pathogenesis-related 2
3.9	223263_s_at	Hs.591162	<b>FGFR1OP2</b>	FGFR1 oncogene partner 2
3.9	1554148_a_at	Hs.478031	<b>SLC33A1</b>	solute carrier family 33 (acetyl-CoA transporter), member 1
3.9	209185_s_at	Hs.442344	<b>IRS2</b>	insulin receptor substrate 2
3.9	238905_at	Hs.656339	<b>RHOJ</b>	ras homolog gene family, member J
3.9	207181_s_at	Hs.9216	<b>CASP7</b>	caspase 7, apoptosis-related cysteine peptidase
3.9	204279_at	Hs.654585	<b>PSMB9</b>	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)
3.9	217867_x_at	Hs.529408	<b>BACE2</b>	beta-site APP-cleaving enzyme 2
3.8	220153_at	Hs.709560	<b>ENTPD7</b>	ectonucleoside triphosphate diphosphohydrolase 7
3.8	201431_s_at	Hs.519659	<b>DPYSL3</b>	dihydropyrimidinase-like 3
3.8	222446_s_at	Hs.529408	<b>BACE2</b>	beta-site APP-cleaving enzyme 2
3.8	203165_s_at	Hs.478031	<b>SLC33A1</b>	solute carrier family 33 (acetyl-CoA transporter), member 1
3.7	216250_s_at	Hs.125474	<b>LPXN</b>	leupaxin
3.7	208829_at	Hs.714746	<b>TAPBP</b>	TAP binding protein (tapasin)
3.7	209566_at	Hs.7089	<b>INSIG2</b>	insulin induced gene 2
3.6	222846_at	Hs.389733	<b>RAB8B</b>	RAB8B, member RAS oncogene family

3.5	225973_at	Hs.502	<b>TAP2</b>	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
3.5	1555419_a_at	Hs.527412	<b>ASAH1</b>	N-acylsphingosine amidohydrolase (acid ceramidase) 1
3.5	34408_at	Hs.47517	<b>RTN2</b>	reticulon 2
3.5	218699_at	Hs.115325	<b>RAB7L1</b>	RAB7, member RAS oncogene family-like 1
3.5	214095_at	Hs.714300	<b>SHMT2</b>	serine hydroxymethyltransferase 2 (mitochondrial)
3.5	216593_s_at	Hs.188456	<b>PIGC</b>	phosphatidylinositol glycan anchor biosynthesis, class C
3.4	206412_at	Hs.221472	<b>FER (includes EG:2)</b>	fer (fps/fes related) tyrosine kinase
3.4	202748_at	Hs.386567	<b>GBP2</b>	guanylate binding protein 2, interferon-inducible
3.4	202238_s_at	Hs.503911	<b>NNMT</b>	nicotinamide N-methyltransferase
3.4	227214_at	Hs.191539	<b>GOPC</b>	golgi associated PDZ and coiled-coil motif containing
3.4	202558_s_at	Hs.352341	<b>HSPA13</b>	heat shock protein 70kDa family, member 13
3.4	226666_at	Hs.654934	<b>DAAM1</b>	dishevelled associated activator of morphogenesis 1
3.4	205321_at	Hs.539684	<b>EIF2S3</b>	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa
3.4	203771_s_at	Hs.488143	<b>BLVRA</b>	biliverdin reductase A
3.4	218094_s_at	Hs.655055	<b>DBNDD2</b>	dysbindin (dystrobrevin binding protein 1) domain containing 2
3.3	226881_at	Hs.511816	<b>GRPEL2</b>	GrpE-like 2, mitochondrial (E. coli)
3.3	201649_at	Hs.425777	<b>UBE2L6</b>	ubiquitin-conjugating enzyme E2L 6
3.3	221765_at	Hs.304249	<b>UGCG</b>	UDP-glucose ceramide glucosyltransferase
3.3	213671_s_at	Hs.632707	<b>MARS</b>	methionyl-tRNA synthetase
3.3	202074_s_at	Hs.332706	<b>OPTN</b>	optineurin
3.3	213988_s_at	Hs.28491	<b>SAT1</b>	spermidine/spermine N1-acetyltransferase 1
3.3	204485_s_at	Hs.153504	<b>TOM1L1</b>	target of myb1 (chicken)-like 1
3.3	214437_s_at	Hs.714300	<b>SHMT2</b>	serine hydroxymethyltransferase 2 (mitochondrial)
3.3	225023_at	Hs.191539	<b>GOPC</b>	golgi associated PDZ and coiled-coil motif containing
3.2	222458_s_at	Hs.293563	<b>AKIRIN1</b>	akirin 1
3.2	212985_at	Hs.479602	<b>APBB2</b>	amyloid beta (A4) precursor protein-binding, family B, member 2
3.2	209646_x_at	Hs.436219	<b>ALDH1B1</b>	aldehyde dehydrogenase 1 family, member B1
3.1	33322_i_at	Hs.523718	<b>SFN</b>	stratifin
3.1	203593_at	Hs.485518	<b>CD2AP</b>	CD2-associated protein
3.1	235204_at	Hs.709560	<b>ENTPD7</b>	ectonucleoside triphosphate diphosphohydrolase 7
3.1	201739_at	Hs.510078	<b>SGK1</b>	serum/glucocorticoid regulated kinase 1
3.1	210980_s_at	Hs.527412	<b>ASAH1</b>	N-acylsphingosine amidohydrolase (acid ceramidase) 1
3.1	205841_at	Hs.656213	<b>JAK2</b>	Janus kinase 2 (a protein tyrosine kinase)
3.1	211622_s_at	Hs.119177	<b>ARF3</b>	ADP-ribosylation factor 3
3.1	217933_s_at	Hs.570791	<b>LAP3</b>	leucine aminopeptidase 3
3.1	209607_x_at	Hs.460587	<b>SULT1A3</b>	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3
3.1	209935_at	Hs.584884	<b>ATP2C1</b>	ATPase, Ca++ transporting, type 2C, member 1
3.1	205622_at	Hs.55235	<b>SMPD2</b>	sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase)
3	228789_at	Hs.709385	<b>MTMR6</b>	myotubularin related protein 6
3	229664_at	Hs.138211	<b>MAPK8</b>	mitogen-activated protein kinase 8
3	219340_s_at	Hs.127675	<b>CLN8</b>	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
3	223172_s_at	Hs.713636	<b>MTP18</b>	mitochondrial protein 18 kDa
3	241379_at	Hs.258941	<b>APLF</b>	aprataxin and PNKP like factor
3	202402_s_at	Hs.274873	<b>CARS</b>	cysteinyl-tRNA synthetase
3	218043_s_at	Hs.706676	<b>AZI2</b>	5-azacytidine induced 2
3	222498_at	Hs.706676	<b>AZI2</b>	5-azacytidine induced 2
3	41329_at	Hs.435560	<b>SCYL3</b>	SCY1-like 3 (S. cerevisiae)
3	218769_s_at	Hs.239154	<b>ANKRA2</b>	ankyrin repeat, family A (RFXANK-like), 2
3	201762_s_at	Hs.434081	<b>PSME2</b>	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)
3	210284_s_at	Hs.269775	<b>MAP3K7IP2</b>	mitogen-activated protein kinase kinase kinase 7 interacting protein 2
2.9	52285_f_at	Hs.236940	<b>CEP76</b>	centrosomal protein 76kDa
2.9	1552978_a_at	Hs.482587	<b>SCAMP1</b>	secretory carrier membrane protein 1
2.9	209274_s_at	Hs.449291	<b>ISCA1</b>	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)
2.9	217995_at	Hs.511251	<b>SQRDL (includes E</b>	sulfide quinone reductase-like (yeast)
2.9	210154_at	Hs.233119	<b>ME2</b>	malic enzyme 2, NAD(+)-dependent, mitochondrial
2.9	238856_s_at	Hs.516859	<b>PANK2</b>	pantothenate kinase 2
2.9	211063_s_at	Hs.477693	<b>NCK1</b>	NCK adaptor protein 1
2.9	219356_s_at	Hs.635313	<b>CHMP5</b>	chromatin modifying protein 5
2.9	208725_at	Hs.429180	<b>EIF2S2</b>	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
2.9	202450_s_at	Hs.632466	<b>CTSK</b>	cathepsin K
2.9	204725_s_at	Hs.477693	<b>NCK1</b>	NCK adaptor protein 1
2.9	201662_s_at	Hs.655772	<b>ACSL3</b>	acyl-CoA synthetase long-chain family member 3
2.8	223805_at	Hs.318775	<b>OSBPL6</b>	oxysterol binding protein-like 6

2.8	235103_at	Hs.432822	<b>MAN2A1</b>	mannosidase, alpha, class 2A, member 1
2.8	212307_s_at	Hs.405410	<b>OGT (includes EG:)</b>	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
2.8	204084_s_at	Hs.30213	<b>CLN5</b>	ceroid-lipofuscinosis, neuronal 5
2.8	224327_s_at	Hs.334305	<b>DGAT2</b>	diacylglycerol O-acyltransferase homolog 2 (mouse)
2.8	204058_at	Hs.21160	<b>ME1</b>	malic enzyme 1, NADP(+)-dependent, cytosolic
2.8	222412_s_at	Hs.518346	<b>SSR3</b>	signal sequence receptor, gamma (translocon-associated protein gamma)
2.8	221761_at	Hs.498313	<b>ADSS</b>	adenylosuccinate synthase
2.8	213750_at	Hs.401842	<b>RSL1D1</b>	ribosomal L1 domain containing 1
2.8	229590_at	Hs.410817	<b>RPL13</b>	ribosomal protein L13
2.7	226337_at	Hs.183702	<b>GORAB</b>	golgin, RAB6-interacting
2.7	228391_at	Hs.714764	<b>CYP4V2</b>	cytochrome P450, family 4, subfamily V, polypeptide 2
2.7	222870_s_at	Hs.173203	<b>B3GNT2</b>	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
2.7	200814_at	Hs.75348	<b>PSME1</b>	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
2.7	203615_x_at	Hs.567342	<b>SULT1A1</b>	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1
2.7	202982_s_at	Hs.446685	<b>ACOT2</b>	acyl-CoA thioesterase 2
2.7	219157_at	Hs.388668	<b>KLHL2</b>	kelch-like 2, Mayven (Drosophila)
2.7	225651_at	Hs.475688	<b>UBE2E2</b>	ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast)
2.7	222435_s_at	Hs.163776	<b>UBE2J1</b>	ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast)
2.7	1556009_at	Hs.567316	<b>PEX13</b>	peroxisomal biogenesis factor 13
2.7	212519_at	Hs.164853	<b>UBE2E1</b>	ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog, yeast)
2.7	213136_at	Hs.654527	<b>PTPN2</b>	protein tyrosine phosphatase, non-receptor type 2
2.7	222157_s_at	Hs.706774	<b>WDR48</b>	WD repeat domain 48
2.7	203455_s_at	Hs.28491	<b>SAT1</b>	spermidine/spermine N1-acetyltransferase 1
2.7	209759_s_at	Hs.403436	<b>DCI</b>	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
2.7	235615_at	Hs.254006	<b>PGGT1B</b>	protein geranylgeranyltransferase type I, beta subunit
2.7	201962_s_at	Hs.524502	<b>RNF41</b>	ring finger protein 41
2.7	209666_s_at	Hs.198998	<b>CHUK</b>	conserved helix-loop-helix ubiquitous kinase
2.7	208957_at	Hs.154023	<b>ERP44</b>	endoplasmic reticulum protein 44
2.6	214211_at	Hs.524910	<b>FTH1</b>	ferritin, heavy polypeptide 1
2.6	223982_s_at	Hs.617340	<b>PNPLA8</b>	patatin-like phospholipase domain containing 8
2.6	224151_s_at	Hs.493362	<b>AK3</b>	adenylate kinase 3
2.6	203840_at	Hs.130746	<b>BLZF1</b>	basic leucine zipper nuclear factor 1
2.6	211711_s_at	Hs.500466	<b>PTEN</b>	phosphatase and tensin homolog
2.6	202237_at	Hs.503911	<b>NNMT</b>	nicotinamide N-methyltransferase
2.6	215148_s_at	Hs.465607	<b>APBA3</b>	amyloid beta (A4) precursor protein-binding, family A, member 3
2.6	205329_s_at	Hs.507243	<b>SNX4</b>	sorting nexin 4
2.6	201772_at	Hs.459106	<b>AZIN1</b>	antizyme inhibitor 1
2.6	227658_s_at	Hs.41086	<b>PLEKHA3</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3
2.6	212048_s_at	Hs.706890	<b>YARS</b>	tyrosyl-tRNA synthetase
2.6	201444_s_at	Hs.700634	<b>ATP6AP2</b>	ATPase, H+ transporting, lysosomal accessory protein 2
2.6	211137_s_at	Hs.584884	<b>ATP2C1</b>	ATPase, Ca++ transporting, type 2C, member 1
2.6	201471_s_at	Hs.437277	<b>SQSTM1</b>	sequestosome 1
2.5	204518_s_at	Hs.110364	<b>PPIC (includes EG:)</b>	peptidylprolyl isomerase C (cyclophilin C)
2.5	209934_s_at	Hs.584884	<b>ATP2C1</b>	ATPase, Ca++ transporting, type 2C, member 1
2.5	225174_at	Hs.516632	<b>DNAJC10</b>	DnaJ (Hsp40) homolog, subfamily C, member 10
2.5	204332_s_at	Hs.207776	<b>AGA</b>	aspartylglucosaminidase
2.5	202076_at	Hs.696238	<b>BIRC2</b>	baculoviral IAP repeat-containing 2
2.5	210978_s_at	Hs.517168	<b>TAGLN2</b>	transgelin 2
2.5	51146_at	Hs.259605	<b>PIGV</b>	phosphatidylinositol glycan anchor biosynthesis, class V
2.5	226119_at	Hs.308480	<b>PCMTD1</b>	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1
2.5	212971_at	Hs.274873	<b>CARS</b>	cysteinylyl-tRNA synthetase
2.5	213702_x_at	Hs.527412	<b>ASAH1</b>	N-acylsphingosine amidohydrolase (acid ceramidase) 1
2.5	201475_x_at	Hs.632707	<b>MARS</b>	methionyl-tRNA synthetase
2.5	220768_s_at	Hs.129206	<b>CSNK1G3</b>	casein kinase 1, gamma 3
2.5	208097_s_at	Hs.125221	<b>TMX1</b>	thioredoxin-related transmembrane protein 1
2.5	212342_at	Hs.82719	<b>YIPF6</b>	Yip1 domain family, member 6
2.5	227179_at	Hs.561815	<b>STAU2</b>	staufen, RNA binding protein, homolog 2 (Drosophila)
2.5	203164_at	Hs.478031	<b>SLC33A1</b>	solute carrier family 33 (acetyl-CoA transporter), member 1
2.4	201631_s_at	Hs.591785	<b>IER3</b>	immediate early response 3
2.4	205565_s_at	Hs.29978	<b>FXN</b>	frataxin
2.4	201316_at	Hs.333786	<b>PSMA2</b>	proteasome (prosome, macropain) subunit, alpha type, 2
2.4	212354_at	Hs.409602	<b>SULF1</b>	sulfatase 1
2.4	212862_at	Hs.714354	<b>CDS2</b>	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2

2.4	221571_at	Hs.510528	<b>TRAF3</b>	TNF receptor-associated factor 3
2.4	212184_s_at	Hs.269775	<b>MAP3K7IP2</b>	mitogen-activated protein kinase kinase kinase 7 interacting protein 2
2.4	219122_s_at	Hs.353090	<b>THG1L</b>	tRNA-histidine guanylyltransferase 1-like (S. cerevisiae)
2.4	213754_s_at	Hs.567929	<b>PAIP1</b>	poly(A) binding protein interacting protein 1
2.4	214649_s_at	Hs.181326	<b>MTMR2</b>	myotubularin related protein 2
2.4	209898_x_at	Hs.432562	<b>ITSN2</b>	intersectin 2
2.4	204186_s_at	Hs.581725	<b>PPID</b>	peptidylprolyl isomerase D
2.4	203180_at	Hs.459538	<b>ALDH1A3</b>	aldehyde dehydrogenase 1 family, member A3
2.4	217168_s_at	Hs.146393	<b>HERPUD1</b>	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
2.4	204140_at	Hs.421194	<b>TPST1</b>	tyrosylprotein sulfotransferase 1
2.4	227904_at	Hs.706676	<b>AZI2</b>	5-azacytidine induced 2
2.4	1560060_s_at	Hs.523715	<b>VPS37C</b>	vacuolar protein sorting 37 homolog C (S. cerevisiae)
2.4	218668_s_at	Hs.119889	<b>RAP2C</b>	RAP2C, member of RAS oncogene family
2.4	213372_at	Hs.657312	<b>PAQR3</b>	progesterin and adipoQ receptor family member III
2.3	223309_x_at	Hs.617340	<b>PNPLA8</b>	patatin-like phospholipase domain containing 8
2.3	205996_s_at	Hs.470907	<b>AK2</b>	adenylate kinase 2
2.3	204274_at	Hs.409368	<b>EBAG9</b>	estrogen receptor binding site associated, antigen, 9
2.3	205571_at	Hs.714759	<b>LIPT1</b>	lipoyltransferase 1
2.3	208315_x_at	Hs.510528	<b>TRAF3</b>	TNF receptor-associated factor 3
2.3	219390_at	Hs.571333	<b>FKBP14</b>	FK506 binding protein 14, 22 kDa
2.3	213902_at	Hs.527412	<b>ASAH1</b>	N-acylsphingosine amidohydrolase (acid ceramidase) 1
2.3	210283_x_at	Hs.567929	<b>PAIP1</b>	poly(A) binding protein interacting protein 1
2.3	214096_s_at	Hs.714300	<b>SHMT2</b>	serine hydroxymethyltransferase 2 (mitochondrial)
2.3	224787_s_at	Hs.406799	<b>RAB18</b>	RAB18, member RAS oncogene family
2.3	216060_s_at	Hs.654934	<b>DAAM1</b>	dishevelled associated activator of morphogenesis 1
2.3	200969_at	Hs.518326	<b>SERP1</b>	stress-associated endoplasmic reticulum protein 1
2.3	209040_s_at	Hs.180062	<b>PSMB8</b>	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)
2.3	202006_at	Hs.61812	<b>PTPN12</b>	protein tyrosine phosphatase, non-receptor type 12
2.3	208866_at	Hs.529862	<b>CSNK1A1</b>	casein kinase 1, alpha 1
2.3	217819_at	Hs.654773	<b>GOLGA7</b>	golgi autoantigen, golgin subfamily a, 7
2.3	225602_at	Hs.493819	<b>GLIPR2</b>	GLI pathogenesis-related 2
2.3	218748_s_at	Hs.655158	<b>EXOC5</b>	exocyst complex component 5
2.3	204054_at	Hs.500466	<b>PTEN</b>	phosphatase and tensin homolog
2.3	201425_at	Hs.632733	<b>ALDH2</b>	aldehyde dehydrogenase 2 family (mitochondrial)
2.3	224025_s_at	Hs.38032	<b>ATG7</b>	ATG7 autophagy related 7 homolog (S. cerevisiae)
2.3	200902_at	Hs.362728	<b>sept-15</b>	15 kDa selenoprotein
2.3	218617_at	Hs.356554	<b>TRIT1</b>	tRNA isopentenyltransferase 1
2.3	225285_at	Hs.438993	<b>BCAT1</b>	branched chain aminotransferase 1, cytosolic
2.3	223370_at	Hs.41086	<b>PLEKHA3</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 3
2.2	220731_s_at	Hs.437385	<b>NECAP2</b>	NECAP endocytosis associated 2
2.2	200748_s_at	Hs.524910	<b>FTH1</b>	ferritin, heavy polypeptide 1
2.2	201625_s_at	Hs.520819	<b>INSIG1</b>	insulin induced gene 1
2.2	210592_s_at	Hs.28491	<b>SAT1</b>	spermidine/spermine N1-acetyltransferase 1
2.2	229299_at	Hs.81907	<b>C5ORF33</b>	chromosome 5 open reading frame 33
2.2	221808_at	Hs.495704	<b>RAB9A</b>	RAB9A, member RAS oncogene family
2.2	210293_s_at	Hs.369373	<b>SEC23B</b>	Sec23 homolog B (S. cerevisiae)
2.2	222754_at	Hs.567495	<b>TRNT1</b>	tRNA nucleotidyl transferase, CCA-adding, 1
2.2	207855_s_at	Hs.658489	<b>CLCC1</b>	chloride channel CLIC-like 1
2.2	209799_at	Hs.43322	<b>PRKAA1</b>	protein kinase, AMP-activated, alpha 1 catalytic subunit
2.2	224935_at	Hs.539684	<b>EIF2S3</b>	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa
2.2	207564_x_at	Hs.405410	<b>OGT (includes EG:)</b>	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
2.2	202742_s_at	Hs.487325	<b>PRKACB</b>	protein kinase, cAMP-dependent, catalytic, beta
2.2	225291_at	Hs.388733	<b>PNPT1</b>	polyribonucleotide nucleotidyltransferase 1
2.2	238034_at	Hs.699155	<b>CANX</b>	calnexin
2.2	202569_s_at	Hs.35828	<b>MARK3</b>	MAP/microtubule affinity-regulating kinase 3
2.2	230192_at	Hs.436922	<b>TRIM13</b>	tripartite motif-containing 13
2.2	223209_s_at	Hs.32148	<b>SELS</b>	selenoprotein S
2.2	201661_s_at	Hs.655772	<b>ACSL3</b>	acyl-CoA synthetase long-chain family member 3
2.2	217826_s_at	Hs.163776	<b>UBE2J1</b>	ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog, yeast)
2.2	1552485_at	Hs.410388	<b>LACTB</b>	lactamase, beta
2.2	209027_s_at	Hs.508148	<b>ABI1</b>	abl-interactor 1
2.2	209028_s_at	Hs.508148	<b>ABI1</b>	abl-interactor 1
2.2	226317_at	Hs.431092	<b>PPP4R2</b>	protein phosphatase 4, regulatory subunit 2

	2.2	221014_s_at	Hs.591679	<b>RAB33B</b>	RAB33B, member RAS oncogene family
	2.2	226517_at	Hs.438993	<b>BCAT1</b>	branched chain aminotransferase 1, cytosolic
	2.2	218085_at	Hs.635313	<b>CHMP5</b>	chromatin modifying protein 5
	2.2	222203_s_at	Hs.120319	<b>RDH14</b>	retinol dehydrogenase 14 (all-trans/9-cis/11-cis)
	2.2	209146_at	Hs.105269	<b>SC4MOL</b>	sterol-C4-methyl oxidase-like
	2.2	201765_s_at	Hs.604479	<b>HEXA</b>	hexosaminidase A (alpha polypeptide)
	2.1	222427_s_at	Hs.432674	<b>LARS</b>	leucyl-tRNA synthetase
	2.1	203093_s_at	Hs.465784	<b>TIMM44</b>	translocase of inner mitochondrial membrane 44 homolog (yeast)
	2.1	204549_at	Hs.321045	<b>IKBKE</b>	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon
	2.1	209063_x_at	Hs.482038	<b>PAIP1</b>	poly(A) binding protein interacting protein 1
	2.1	208726_s_at	Hs.429180	<b>EIF2S2</b>	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
	2.1	223295_s_at	Hs.16803	<b>LUC7L</b>	LUC7-like (S. cerevisiae)
	2.1	218669_at	Hs.119889	<b>RAP2C</b>	RAP2C, member of RAS oncogene family
	2.1	223046_at	Hs.444450	<b>EGLN1</b>	egl nine homolog 1 (C. elegans)
	2.1	202651_at	Hs.654626	<b>LPGAT1</b>	lysophosphatidylglycerol acyltransferase 1
	2.1	201738_at	Hs.315230	<b>EIF1B</b>	eukaryotic translation initiation factor 1B
	2.1	204059_s_at	Hs.21160	<b>ME1</b>	malic enzyme 1, NADP(+)-dependent, cytosolic
	2.1	208985_s_at	Hs.404056	<b>EIF3J</b>	eukaryotic translation initiation factor 3, subunit J
	2.1	203657_s_at	Hs.11590	<b>CTSF</b>	cathepsin F
<b>Nucleus</b>	<b>82.5</b>	219209_at	Hs.163173	<b>IFIH1</b>	interferon induced with helicase C domain 1
	<b>38.3</b>	228617_at	Hs.441975	<b>XAF1</b>	XIAP associated factor 1
	<b>30.3</b>	206133_at	Hs.441975	<b>XAF1</b>	XIAP associated factor 1
	<b>28</b>	39549_at	Hs.156832	<b>NPAS2</b>	neuronal PAS domain protein 2
	<b>27.2</b>	236313_at	Hs.72901	<b>CDKN2B</b>	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
	<b>26.1</b>	202643_s_at	Hs.211600	<b>TNFAIP3</b>	tumor necrosis factor, alpha-induced protein 3
	<b>23</b>	1554966_a_at	Hs.104672	<b>FILIP1L</b>	filamin A interacting protein 1-like
	<b>19.6</b>	203927_at	Hs.458276	<b>NFKBIE</b>	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
	<b>19</b>	204702_s_at	Hs.404741	<b>NFE2L3</b>	nuclear factor (erythroid-derived 2)-like 3
	<b>16.8</b>	202724_s_at	Hs.370666	<b>FOXO1</b>	forkhead box O1
	<b>14.2</b>	213462_at	Hs.156832	<b>NPAS2</b>	neuronal PAS domain protein 2
	<b>12.7</b>	218543_s_at	Hs.12646	<b>PARP12</b>	poly (ADP-ribose) polymerase family, member 12
	<b>11.7</b>	204135_at	Hs.104672	<b>FILIP1L</b>	filamin A interacting protein 1-like
	<b>11.6</b>	202843_at	Hs.6790	<b>DNAJB9</b>	DnaJ (Hsp40) homolog, subfamily B, member 9
	<b>9.7</b>	230636_s_at	Hs.150557	<b>KLF9</b>	Kruppel-like factor 9
	<b>9.2</b>	227020_at	Hs.463613	<b>YPEL2</b>	yippee-like 2 (Drosophila)
	<b>9.1</b>	202644_s_at	Hs.211600	<b>TNFAIP3</b>	tumor necrosis factor, alpha-induced protein 3
	<b>8.7</b>	210285_x_at	Hs.446091	<b>WTAP</b>	Wilms tumor 1 associated protein
	<b>8.2</b>	1552487_a_at	Hs.459153	<b>BNC1</b>	basonuclin 1
	<b>8</b>	202980_s_at	Hs.295923	<b>SIAH1</b>	seven in absentia homolog 1 (Drosophila)
	<b>8</b>	221530_s_at	Hs.177841	<b>BHLHE41</b>	basic helix-loop-helix family, member e41
	<b>7.9</b>	209417_s_at	Hs.632258	<b>IFI35</b>	interferon-induced protein 35
	<b>7.8</b>	218145_at	Hs.516826	<b>TRIB3</b>	tribbles homolog 3 (Drosophila)
	<b>7.7</b>	224848_at	Hs.119882	<b>CDK6</b>	cyclin-dependent kinase 6
	<b>7.7</b>	209230_s_at	Hs.513463	<b>NUPR1</b>	nuclear protein 1
	<b>7.5</b>	1554462_a_at	Hs.6790	<b>DNAJB9</b>	DnaJ (Hsp40) homolog, subfamily B, member 9
	<b>7.4</b>	207196_s_at	Hs.543850	<b>TNIP1</b>	TNFAIP3 interacting protein 1
	<b>7.1</b>	220658_s_at	Hs.434269	<b>ARNTL2</b>	aryl hydrocarbon receptor nuclear translocator-like 2
	<b>7</b>	205528_s_at	Hs.368431	<b>RUNX1T1</b>	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
	<b>7</b>	204203_at	Hs.429666	<b>CEBPG</b>	CCAAT/enhancer binding protein (C/EBP), gamma
	<b>6.8</b>	204341_at	Hs.123534	<b>TRIM16</b>	tripartite motif-containing 16
	<b>6.7</b>	216125_s_at	Hs.709269	<b>RANBP9</b>	RAN binding protein 9
	<b>6.6</b>	203137_at	Hs.446091	<b>WTAP</b>	Wilms tumor 1 associated protein
	<b>6.1</b>	225344_at	Hs.171426	<b>NCOA7</b>	nuclear receptor coactivator 7
	<b>6.1</b>	205529_s_at	Hs.368431	<b>RUNX1T1</b>	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
	<b>5.8</b>	207039_at	Hs.512599	<b>CDKN2A</b>	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
	<b>5.8</b>	236471_at	Hs.404741	<b>NFE2L3</b>	nuclear factor (erythroid-derived 2)-like 3
	<b>5.7</b>	39548_at	Hs.156832	<b>NPAS2</b>	neuronal PAS domain protein 2
	<b>5.7</b>	218486_at	Hs.12229	<b>KLF11</b>	Kruppel-like factor 11
	<b>5.7</b>	224847_at	Hs.119882	<b>CDK6</b>	cyclin-dependent kinase 6
	<b>5.4</b>	224204_x_at	Hs.434269	<b>ARNTL2</b>	aryl hydrocarbon receptor nuclear translocator-like 2
	<b>5.2</b>	223650_s_at	Hs.449628	<b>NRBF2</b>	nuclear receptor binding factor 2
	<b>5</b>	202842_s_at	Hs.6790	<b>DNAJB9</b>	DnaJ (Hsp40) homolog, subfamily B, member 9
	<b>5</b>	209706_at	Hs.55999	<b>NKX3-1</b>	NK3 homeobox 1

4.8	222636_at	Hs.434075	<b>MED28</b>	mediator complex subunit 28
4.8	224851_at	Hs.119882	<b>CDK6</b>	cyclin-dependent kinase 6
4.8	205063_at	Hs.708127	<b>SIP1</b>	survival of motor neuron protein interacting protein 1
4.7	219540_at	Hs.460645	<b>ZNF267</b>	zinc finger protein 267
4.6	203377_s_at	Hs.428147	<b>CDC40</b>	cell division cycle 40 homolog (S. cerevisiae)
4.6	210218_s_at	Hs.369056	<b>SP100</b>	SP100 nuclear antigen
4.5	221803_s_at	Hs.449628	<b>NRBF2</b>	nuclear receptor binding factor 2
4.4	204523_at	Hs.181552	<b>ZNF140</b>	zinc finger protein 140
4.3	209969_s_at	Hs.642990	<b>STAT1</b>	signal transducer and activator of transcription 1, 91kDa
4.3	201780_s_at	Hs.12333	<b>RNF13</b>	ring finger protein 13
4.1	225768_at	Hs.37288	<b>NR1D2</b>	nuclear receptor subfamily 1, group D, member 2
4.1	229711_s_at	Hs.484551	<b>MDM2</b>	Mdm2 p53 binding protein homolog (mouse)
4	214697_s_at	Hs.269988	<b>ROD1</b>	ROD1 regulator of differentiation 1 (S. pombe)
4	203010_at	Hs.437058	<b>STAT5A</b>	signal transducer and activator of transcription 5A
4	202531_at	Hs.436061	<b>IRF1</b>	interferon regulatory factor 1
4	202583_s_at	Hs.709269	<b>RANBP9</b>	RAN binding protein 9
4	217915_s_at	Hs.274772	<b>RSL24D1</b>	ribosomal L24 domain containing 1
3.9	225527_at	Hs.429666	<b>CEBPG</b>	CCAAT/enhancer binding protein (C/EBP), gamma
3.7	209581_at	Hs.502775	<b>PLA2G16</b>	phospholipase A2, group XVI
3.7	203543_s_at	Hs.150557	<b>KLF9</b>	Kruppel-like factor 9
3.6	213698_at	Hs.533986	<b>ZMYM6</b>	zinc finger, MYM-type 6
3.6	227155_at	Hs.436792	<b>LMO4</b>	LIM domain only 4
3.6	226682_at	Hs.560343	<b>RORA</b>	RAR-related orphan receptor A
3.6	203743_s_at	Hs.584809	<b>TDG</b>	thymine-DNA glycosylase
3.6	219924_s_at	Hs.675613	<b>ZMYM6</b>	zinc finger, MYM-type 6
3.5	201866_s_at	Hs.122926	<b>NR3C1</b>	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
3.5	224618_at	Hs.269988	<b>ROD1</b>	ROD1 regulator of differentiation 1 (S. pombe)
3.4	225133_at	Hs.298658	<b>KLF3</b>	Kruppel-like factor 3 (basic)
3.3	230440_at	Hs.54925	<b>ZNF469</b>	zinc finger protein 469
3.3	225160_x_at	Hs.484551	<b>MDM2</b>	Mdm2 p53 binding protein homolog (mouse)
3.3	219885_at	Hs.663548	<b>SLFN12</b>	schlafen family member 12
3.3	229317_at	Hs.182971	<b>KPNA5</b>	karyopherin alpha 5 (importin alpha 6)
3.3	235450_at	Hs.536850	<b>FBXL4</b>	F-box and leucine-rich repeat protein 4
3.2	202863_at	Hs.369056	<b>SP100</b>	SP100 nuclear antigen
3.2	202864_s_at	Hs.369056	<b>SP100</b>	SP100 nuclear antigen
3.2	235020_at	Hs.369519	<b>TAF4B</b>	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa
3.2	216262_s_at	Hs.632264	<b>TGIF2</b>	TGFB-induced factor homeobox 2
3.2	204005_s_at	Hs.643130	<b>PAWR</b>	PRKC, apoptosis, WT1, regulator
3.1	207079_s_at	Hs.497353	<b>MED6</b>	mediator complex subunit 6
3.1	209272_at	Hs.570078	<b>NAB1</b>	NGFI-A binding protein 1 (EGR1 binding protein 1)
3.1	226275_at	Hs.468908	<b>MXD1</b>	MAX dimerization protein 1
3.1	216693_x_at	Hs.513954	<b>HDGFRP3</b>	hepatoma-derived growth factor, related protein 3
3.1	201779_s_at	Hs.12333	<b>RNF13</b>	ring finger protein 13
3.1	223586_at	---	<b>ARNTL2</b>	aryl hydrocarbon receptor nuclear translocator-like 2
3.1	224833_at	Hs.369438	<b>ETS1</b>	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
3.1	202820_at	Hs.171189	<b>AHR</b>	aryl hydrocarbon receptor
3	209526_s_at	Hs.513954	<b>HDGFRP3</b>	hepatoma-derived growth factor, related protein 3
3	222465_at	Hs.274772	<b>RSL24D1</b>	ribosomal L24 domain containing 1
3	201200_at	Hs.5710	<b>CREG1</b>	cellular repressor of E1A-stimulated genes 1
3	203347_s_at	Hs.31016	<b>MTF2</b>	metal response element binding transcription factor 2
3	214698_at	Hs.269988	<b>ROD1</b>	ROD1 regulator of differentiation 1 (S. pombe)
3	212749_s_at	Hs.48297	<b>RCHY1</b>	ring finger and CHY zinc finger domain containing 1
3	202364_at	Hs.501023	<b>MXI1</b>	MAX interactor 1
2.9	1554627_a_at	Hs.500007	<b>ASCC1</b>	activating signal cointegrator 1 complex subunit 1
2.9	217542_at	Hs.484551	<b>MDM2</b>	Mdm2 p53 binding protein homolog (mouse)
2.9	201263_at	Hs.481860	<b>TARS</b>	threonyl-tRNA synthetase
2.9	207030_s_at	Hs.530904	<b>CSRP2</b>	cysteine and glycine-rich protein 2
2.9	203725_at	Hs.80409	<b>GADD45A</b>	growth arrest and DNA-damage-inducible, alpha
2.9	223342_at	Hs.512592	<b>RRM2B</b>	ribonucleotide reductase M2 B (TP53 inducible)
2.9	206383_s_at	Hs.303676	<b>G3BP2</b>	GTPase activating protein (SH3 domain) binding protein 2
2.8	203026_at	Hs.161276	<b>ZBTB5</b>	zinc finger and BTB domain containing 5
2.8	208840_s_at	Hs.303676	<b>G3BP2</b>	GTPase activating protein (SH3 domain) binding protein 2
2.8	221903_s_at	Hs.578973	<b>CYLD</b>	cylindromatosis (urban tumor syndrome)



2.8	224387_at	Hs.631856	COMMD5	COMM domain containing 5
2.7	225419_at	Hs.654989	C7ORF11	chromosome 7 open reading frame 11
2.7	212636_at	Hs.510324	QKI	quaking homolog, KH domain RNA binding (mouse)
2.7	1553113_s_at	Hs.382306	CDK8	cyclin-dependent kinase 8
2.7	209704_at	Hs.31016	MTF2	metal response element binding transcription factor 2
2.7	210320_s_at	Hs.590937	DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52
2.7	229838_at	Hs.654599	NUCB2	nucleobindin 2
2.7	218499_at	Hs.444247	RP6-213H19.1	serine/threonine protein kinase MST4
2.7	228736_at	Hs.480101	HELQ	helicase, POLQ-like
2.6	218572_at	Hs.279761	CHMP4A	chromatin modifying protein 4A
2.6	209524_at	Hs.513954	HDGFRP3	hepatoma-derived growth factor, related protein 3
2.6	227766_at	Hs.166091	LIG4	ligase IV, DNA, ATP-dependent
2.6	212160_at	Hs.85951	XPOT	exportin, tRNA (nuclear export receptor for tRNAs)
2.6	225912_at	Hs.700624	TP53INP1	tumor protein p53 inducible nuclear protein 1
2.6	202480_s_at	Hs.517342	DEDD	death effector domain containing
2.6	221586_s_at	Hs.445758	E2F5	E2F transcription factor 5, p130-binding
2.6	222623_s_at	Hs.632578	ZNF639	zinc finger protein 639
2.6	200779_at	Hs.496487	ATF4	activating transcription factor 4 (tax-responsive enhancer element B67)
2.6	48825_at	Hs.524210	ING4	inhibitor of growth family, member 4
2.6	224617_at	Hs.269988	ROD1	ROD1 regulator of differentiation 1 (S. pombe)
2.6	223085_at	Hs.292882	RNF19A	ring finger protein 19A
2.6	223268_at	Hs.8360	C11ORF54	chromosome 11 open reading frame 54
2.6	201473_at	Hs.25292	JUNB	jun B proto-oncogene
2.5	209644_x_at	Hs.512599	CDKN2A	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
2.5	204435_at	Hs.714851	NUPL1	nucleoporin like 1
2.5	202981_x_at	Hs.295923	SIAH1	seven in absentia homolog 1 (Drosophila)
2.5	224642_at	Hs.277533	FYTTD1	forty-two-three domain containing 1
2.5	203919_at	Hs.505004	TCEA2	transcription elongation factor A (SII), 2
2.5	205548_s_at	Hs.473420	BTG3	BTG family, member 3
2.5	203675_at	Hs.654599	NUCB2	nucleobindin 2
2.5	209339_at	Hs.477959	SIAH2	seven in absentia homolog 2 (Drosophila)
2.5	229630_s_at	Hs.446091	WTAP	Wilms tumor 1 associated protein
2.5	204236_at	Hs.504281	FLI1	Friend leukemia virus integration 1
2.5	227798_at	Hs.604588	SMAD1	SMAD family member 1
2.5	202164_s_at	Hs.26703	CNOT8	CCR4-NOT transcription complex, subunit 8
2.4	208762_at	Hs.81424	SUMO1	SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)
2.4	1558700_s_at	Hs.18103	ZNF260	zinc finger protein 260
2.4	202163_s_at	Hs.26703	CNOT8	CCR4-NOT transcription complex, subunit 8
2.4	206245_s_at	Hs.497183	IVNS1ABP	influenza virus NS1A binding protein
2.4	209748_at	Hs.468091	SPAST	spastin
2.4	212919_at	Hs.443875	DCP2	DCP2 decapping enzyme homolog (S. cerevisiae)
2.4	209448_at	Hs.90753	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa
2.4	212855_at	Hs.605388	DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4 (S. cerevisiae)
2.4	203313_s_at	Hs.373550	TGIF1	TGFB-induced factor homeobox 1
2.4	217741_s_at	Hs.406096	ZFAND5	zinc finger, AN1-type domain 5
2.4	202582_s_at	Hs.709269	RANBP9	RAN binding protein 9
2.4	225539_at	Hs.434947	ZNF295	zinc finger protein 295
2.3	212200_at	Hs.654628	ANKLE2	ankyrin repeat and LEM domain containing 2
2.3	222815_at	Hs.653288	RLIM	ring finger protein, LIM domain interacting
2.3	219351_at	Hs.446620	ZNF547	zinc finger protein 547
2.3	201746_at	Hs.654481	TP53	tumor protein p53
2.3	204831_at	Hs.382306	CDK8	cyclin-dependent kinase 8
2.3	1558254_s_at	Hs.285197	SRPK2	SFRS protein kinase 2
2.3	209674_at	Hs.151573	CRY1	cryptochrome 1 (photolyase-like)
2.3	219336_s_at	Hs.500007	ASCC1	activating signal cointegrator 1 complex subunit 1
2.3	210993_s_at	Hs.604588	SMAD1	SMAD family member 1
2.3	209586_s_at	Hs.78524	PRUNE	prune homolog (Drosophila)
2.3	213134_x_at	Hs.473420	BTG3	BTG family, member 3
2.3	228992_at	Hs.434075	MED28	mediator complex subunit 28
2.3	214714_at	Hs.386324	ZNF394	zinc finger protein 394
2.3	226012_at	Hs.335003	ANKRD11	ankyrin repeat domain 11
2.3	1554036_at	Hs.409876	ZBTB24 (includes E	zinc finger and BTB domain containing 24
2.3	213743_at	Hs.591241	CCNT2	cyclin T2

	2.3	202149_at	Hs.699288	<b>NEDD9</b>	neural precursor cell expressed, developmentally down-regulated 9
	2.3	209205_s_at	Hs.436792	<b>LMO4</b>	LIM domain only 4
	2.3	216241_s_at	Hs.491745	<b>TCEA1</b>	transcription elongation factor A (SII), 1
	2.3	201701_s_at	Hs.507910	<b>PGRMC2</b>	progesterone receptor membrane component 2
	2.2	218544_s_at	Hs.194121	<b>RCL1</b>	RNA terminal phosphate cyclase-like 1
	2.2	235192_at	Hs.440263	<b>TP53RK (includes E</b>	TP53 regulating kinase
	2.2	203098_at	Hs.269092	<b>CDYL</b>	chromodomain protein, Y-like
	2.2	209432_s_at	Hs.522110	<b>CREB3</b>	cAMP responsive element binding protein 3
	2.2	203077_s_at	Hs.12253	<b>SMAD2</b>	SMAD family member 2
	2.2	226952_at	Hs.474479	<b>EAF1</b>	ELL associated factor 1
	2.2	207338_s_at	Hs.632222	<b>ZNF200</b>	zinc finger protein 200
	2.2	1555420_a_at	Hs.471221	<b>KLF7</b>	Kruppel-like factor 7 (ubiquitous)
	2.2	226066_at	Hs.166017	<b>MITF</b>	microphthalmia-associated transcription factor
	2.2	205080_at	Hs.654490	<b>RARB</b>	retinoic acid receptor, beta
	2.2	204205_at	Hs.660143	<b>APOBEC3G</b>	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G
	2.1	203376_at	Hs.428147	<b>CDC40</b>	cell division cycle 40 homolog (S. cerevisiae)
	2.1	221598_s_at	Hs.374262	<b>MED27</b>	mediator complex subunit 27
	2.1	207180_s_at	Hs.90753	<b>HTATIP2</b>	HIV-1 Tat interactive protein 2, 30kDa
	2.1	235200_at	Hs.371107	<b>ZNF561</b>	zinc finger protein 561
	2.1	202769_at	Hs.13291	<b>CCNG2</b>	cyclin G2
	2	219131_at	Hs.522933	<b>UBIAD1</b>	UbiA prenyltransferase domain containing 1
Unknown	135.8	227236_at	Hs.310458	<b>TSPAN2</b>	tetraspanin 2
	111.8	227233_at	Hs.310458	<b>TSPAN2</b>	tetraspanin 2
	62.3	37512_at	Hs.524513	<b>HSD17B6</b>	hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse)
	57.4	225817_at	Hs.148989	<b>CGNL1</b>	cingulin-like 1
	51.2	205700_at	Hs.524513	<b>HSD17B6</b>	hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse)
	48.2	214606_at	Hs.310458	<b>TSPAN2</b>	tetraspanin 2
	37.8	236738_at	Hs.710781	<b>LOC401097</b>	Similar to LOC166075
	33.4	235276_at	Hs.546467	<b>EPSTI1</b>	epithelial stromal interaction 1 (breast)
	33	213524_s_at	Hs.432132	<b>G0S2</b>	G0/G1switch 2
	32.7	237016_at	Hs.520101	<b>TMEM217 (includes</b>	transmembrane protein 217
	28.9	217966_s_at	Hs.518662	<b>FAM129A</b>	family with sequence similarity 129, member A
	26.3	219270_at	Hs.155569	<b>CHAC1</b>	ChaC, cation transport regulator homolog 1 (E. coli)
	25.4	229872_s_at	---	<b>LOC100132999</b>	hypothetical protein LOC100132999
	20.1	205047_s_at	Hs.489207	<b>ASNS</b>	asparagine synthetase
	19.8	213142_x_at	Hs.186649	<b>PION</b>	pigeon homolog (Drosophila)
	19	217967_s_at	Hs.518662	<b>FAM129A</b>	family with sequence similarity 129, member A
	18.7	227609_at	Hs.546467	<b>EPSTI1</b>	epithelial stromal interaction 1 (breast)
	18.5	226533_at	Hs.72325	<b>HINT3</b>	histidine triad nucleotide binding protein 3
	18.2	228697_at	Hs.72325	<b>HINT3</b>	histidine triad nucleotide binding protein 3
	16	243894_at	Hs.577463	<b>SLC41A2</b>	solute carrier family 41, member 2
	15.9	227099_s_at	Hs.714890	<b>LOC387763</b>	hypothetical protein LOC387763
	14.2	228438_at	Hs.710132	<b>LOC100132891</b>	hypothetical protein LOC100132891
	13.8	218627_at	Hs.525634	<b>DRAM (includes EC</b>	damage-regulated autophagy modulator
	13.5	226117_at	Hs.310640	<b>TIFA</b>	TRAF-interacting protein with forkhead-associated domain
	11.1	229669_at	---	<b>LOC440416</b>	hypothetical gene supported by BC072410
	10.8	205194_at	Hs.512656	<b>PSPH</b>	phosphoserine phosphatase
	10.1	212327_at	Hs.335163	<b>LIMCH1</b>	LIM and calponin homology domains 1
	9.9	238865_at	Hs.49889	<b>PABPC4L (includes</b>	poly(A) binding protein, cytoplasmic 4-like
	9.3	223627_at	Hs.104744	<b>MEX3B</b>	mex-3 homolog B (C. elegans)
	8.9	219093_at	Hs.409352	<b>PID1 (includes EG:</b>	phosphotyrosine interaction domain containing 1
	8.7	229429_x_at	Hs.645966	<b>FAM91A2</b>	family with sequence similarity 91, member A2
	8.7	226158_at	Hs.407709	<b>KLHL24</b>	kelch-like 24 (Drosophila)
	8.5	223595_at	Hs.44004	<b>TMEM133</b>	transmembrane protein 133
	8.1	227657_at	Hs.659104	<b>RNF150</b>	ring finger protein 150
	8.1	1553106_at	Hs.406549	<b>C5ORF24</b>	chromosome 5 open reading frame 24
	7.6	205299_s_at	Hs.373938	<b>BTN2A2</b>	butyrophilin, subfamily 2, member A2
	7.3	226225_at	Hs.593171	<b>MCC</b>	mutated in colorectal cancers
	7.3	219959_at	Hs.405028	<b>MOCOS</b>	molybdenum cofactor sulfuryase
	6.8	235542_at	Hs.516107	<b>TET3</b>	tet oncogene family member 3
	6.7	1568609_s_at	Hs.713362	<b>FLJ39739</b>	hypothetical FLJ39739
	6.7	212328_at	Hs.335163	<b>LIMCH1</b>	LIM and calponin homology domains 1
	6.5	235228_at	Hs.117136	<b>CCDC85A</b>	coiled-coil domain containing 85A

6.5	1560916_a_at	Hs.408623	<b>DPY19L1</b>	dpy-19-like 1 (C. elegans)
6.4	242418_at	Hs.655680	<b>C2ORF27</b>	chromosome 2 open reading frame 27
6.3	219602_s_at	Hs.585839	<b>FAM38B</b>	family with sequence similarity 38, member B
5.8	219023_at	Hs.435991	<b>C4ORF16</b>	chromosome 4 open reading frame 16
5.7	223194_s_at	Hs.713588	<b>SLC22A23</b>	solute carrier family 22, member 23
5.6	226188_at	Hs.372208	<b>HSPC159</b>	galectin-related protein
5.5	242477_at	Hs.563630	<b>TTC39B</b>	tetratricopeptide repeat domain 39B
5.5	226135_at	Hs.700656	<b>UHRF1BP1</b>	UHRF1 binding protein 1
5.4	225003_at	Hs.8036	<b>TMEM205</b>	transmembrane protein 205
5.4	222752_s_at	Hs.445386	<b>TMEM206</b>	transmembrane protein 206
5.3	232893_at	Hs.294103	<b>LMBRD2</b>	LMBR1 domain containing 2
5.2	232080_at	Hs.654742	<b>HECW2</b>	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2
5.2	222001_x_at	Hs.645966	<b>FAM91A2</b>	family with sequence similarity 91, member A2
5.1	219338_s_at	Hs.12692	<b>LRRC49</b>	leucine rich repeat containing 49
5.1	1568592_at	Hs.489254	<b>TRIM69</b>	tripartite motif-containing 69
5.1	232183_at	Hs.154706	<b>SERAC1</b>	serine active site containing 1
5.1	242029_at	Hs.159430	<b>FNDC3B</b>	fibronectin type III domain containing 3B
4.9	1555870_at	Hs.515688	<b>RNF207</b>	ring finger protein 207
4.8	213555_at	Hs.709686	<b>RWDD2A</b>	RWD domain containing 2A
4.7	219166_at	Hs.231761	<b>C14ORF104</b>	chromosome 14 open reading frame 104
4.7	221756_at	Hs.26670	<b>PIK3IP1</b>	phosphoinositide-3-kinase interacting protein 1
4.7	238647_at	Hs.82098	<b>C14ORF28</b>	chromosome 14 open reading frame 28
4.6	220244_at	Hs.591661	<b>LOH3CR2A</b>	loss of heterozygosity, 3, chromosomal region 2, gene A
4.6	243042_at	Hs.632419	<b>FAM73A</b>	family with sequence similarity 73, member A
4.6	38241_at	Hs.167741	<b>BTN3A3</b>	butyrophilin, subfamily 3, member A3
4.5	228328_at	Hs.653206	<b>KLHL28</b>	kelch-like 28 (Drosophila)
4.5	226001_at	Hs.272251	<b>KLHL5</b>	kelch-like 5 (Drosophila)
4.5	227334_at	Hs.657355	<b>USP54</b>	ubiquitin specific peptidase 54
4.4	204821_at	Hs.167741	<b>BTN3A3</b>	butyrophilin, subfamily 3, member A3
4.4	235181_at	Hs.204619	<b>C2ORF60</b>	chromosome 2 open reading frame 60
4.4	226259_at	Hs.655657	<b>EXOC6</b>	exocyst complex component 6
4.4	205298_s_at	Hs.373938	<b>BTN2A2</b>	butyrophilin, subfamily 2, member A2
4.3	222156_x_at	Hs.285051	<b>CCPG1</b>	cell cycle progression 1
4.3	32541_at	Hs.655661	<b>PPP3CC</b>	protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform
4.3	231202_at	Hs.42572	<b>ALDH1L2</b>	aldehyde dehydrogenase 1 family, member L2
4.3	220987_s_at	Hs.131180	<b>NUAK2</b>	NUAK family, SNF1-like kinase, 2
4.2	231899_at	Hs.376289	<b>ZC3H12C</b>	zinc finger CCCH-type containing 12C
4.2	228937_at	Hs.210586	<b>C13ORF31</b>	chromosome 13 open reading frame 31
4.1	229678_at	Hs.380738	<b>LOC728431</b>	hypothetical LOC728431
4	228153_at	Hs.148741	<b>RNF144B</b>	ring finger protein 144B
4	222408_s_at	Hs.515890	<b>YPEL5</b>	yippee-like 5 (Drosophila)
4	233732_at	Hs.561708	<b>LOC401320</b>	hypothetical LOC401320
3.9	225603_s_at	Hs.440643	<b>C8ORF83</b>	chromosome 8 open reading frame 83
3.9	1569129_s_at	Hs.518099	<b>C3ORF38</b>	chromosome 3 open reading frame 38
3.9	1555872_a_at	Hs.380240	<b>MGC21881</b>	hypothetical locus MGC21881
3.9	227272_at	Hs.32433	<b>C15ORF52</b>	chromosome 15 open reading frame 52
3.9	226748_at	Hs.631693	<b>LYSMD2</b>	LysM, putative peptidoglycan-binding, domain containing 2
3.9	217436_x_at	Hs.181244	<b>HLA-J</b>	major histocompatibility complex, class I, J (pseudogene)
3.8	227247_at	Hs.233495	<b>PLEKHA8</b>	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8
3.8	220329_s_at	Hs.486835	<b>RMND1</b>	required for meiotic nuclear division 1 homolog (S. cerevisiae)
3.7	224739_at	Hs.530381	<b>PIM3</b>	pim-3 oncogene
3.7	225819_at	Hs.436410	<b>TBRG1 (includes E</b>	transforming growth factor beta regulator 1
3.7	213392_at	Hs.460217	<b>IQCK</b>	IQ motif containing K
3.7	228149_at	Hs.489734	<b>C7ORF60</b>	chromosome 7 open reading frame 60
3.6	226925_at	Hs.657887	<b>ACPL2</b>	acid phosphatase-like 2
3.6	227256_at	Hs.183817	<b>USP31</b>	ubiquitin specific peptidase 31
3.6	228482_at	Hs.164595	<b>CDRT4</b>	CMT1A duplicated region transcript 4
3.6	224735_at	Hs.22546	<b>CYBASC3</b>	cytochrome b, ascorbate dependent 3
3.6	1557458_s_at	Hs.521482	<b>SHB</b>	Src homology 2 domain containing adaptor protein B
3.6	221511_x_at	Hs.285051	<b>CCPG1</b>	cell cycle progression 1
3.6	209020_at	Hs.75798	<b>C20ORF111</b>	chromosome 20 open reading frame 111
3.5	224839_s_at	Hs.460693	<b>GPT2</b>	glutamic pyruvate transaminase (alanine aminotransferase) 2
3.5	227856_at	Hs.23439	<b>C4ORF32</b>	chromosome 4 open reading frame 32

3.4	231260_at	Hs.549564	<b>BC036928</b>	hypothetical protein BC036928
3.4	229865_at	Hs.159430	<b>FNDC3B</b>	fibronectin type III domain containing 3B
3.4	225922_at	Hs.709500	<b>FNIP2 (includes EG)</b>	folliculin interacting protein 2
3.4	224916_at	Hs.379754	<b>TMEM173</b>	transmembrane protein 173
3.3	224875_at	Hs.406549	<b>C5ORF24</b>	chromosome 5 open reading frame 24
3.3	212959_s_at	Hs.46850	<b>GNPTAB</b>	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits
3.3	220943_s_at	Hs.433466	<b>C2ORF56</b>	chromosome 2 open reading frame 56
3.3	223491_at	Hs.591315	<b>COMMD2</b>	COMM domain containing 2
3.2	218513_at	Hs.267446	<b>C4ORF43</b>	chromosome 4 open reading frame 43
3.2	204866_at	Hs.371977	<b>PHF16</b>	PHD finger protein 16
3.2	224929_at	Hs.379754	<b>TMEM173</b>	transmembrane protein 173
3.2	202732_at	Hs.472831	<b>PKIG</b>	protein kinase (cAMP-dependent, catalytic) inhibitor gamma
3.2	235727_at	Hs.653206	<b>KLHL28</b>	kelch-like 28 (Drosophila)
3.2	225623_at	Hs.22452	<b>KIAA1737</b>	KIAA1737
3.2	235349_at	Hs.591566	<b>FAM82A1</b>	family with sequence similarity 82, member A1
3.1	225308_s_at	Hs.61590	<b>TANC1</b>	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1
3.1	227599_at	Hs.151443	<b>C3ORF59</b>	chromosome 3 open reading frame 59
3.1	225121_at	Hs.477003	<b>TBC1D23</b>	TBC1 domain family, member 23
3.1	218446_s_at	Hs.87295	<b>FAM18B</b>	family with sequence similarity 18, member B
3	202181_at	Hs.440025	<b>KIAA0247</b>	KIAA0247
3	235369_at	Hs.82098	<b>C14ORF28</b>	chromosome 14 open reading frame 28
3	203642_s_at	Hs.470457	<b>COBLL1</b>	COBL-like 1
3	219021_at	Hs.368554	<b>RNF121</b>	ring finger protein 121
3	226901_at	Hs.90790	<b>C17ORF58</b>	chromosome 17 open reading frame 58
3	227124_at	Hs.709608	<b>LOC221710</b>	hypothetical protein LOC221710
3	225698_at	Hs.12082	<b>C5ORF26</b>	chromosome 5 open reading frame 26
2.9	1553719_s_at	Hs.657353	<b>ZNF548</b>	zinc finger protein 548
2.9	212792_at	Hs.408623	<b>DPY19L1</b>	dpy-19-like 1 (C. elegans)
2.9	222693_at	Hs.159430	<b>FNDC3B</b>	fibronectin type III domain containing 3B
2.9	218705_s_at	Hs.483200	<b>SNX24</b>	sorting nexin 24
2.8	207000_s_at	Hs.655661	<b>PPP3CC</b>	protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform
2.8	237032_x_at	---	<b>LOC283567</b>	hypothetical protein LOC283567
2.8	221156_x_at	Hs.285051	<b>CCPG1</b>	cell cycle progression 1
2.8	232287_at	Hs.654449	<b>PGBD3</b>	piggyBac transposable element derived 3
2.8	218776_s_at	Hs.511175	<b>TMEM62</b>	transmembrane protein 62
2.8	223239_at	Hs.4104	<b>C14ORF129</b>	chromosome 14 open reading frame 129
2.8	219826_at	Hs.710285	<b>ZNF419</b>	zinc finger protein 419
2.8	201918_at	Hs.144130	<b>SLC25A36</b>	solute carrier family 25, member 36
2.8	227395_at	Hs.504136	<b>TBCEL</b>	tubulin folding cofactor E-like
2.7	209717_at	Hs.656836	<b>EVI5</b>	ecotropic viral integration site 5
2.7	220241_at	Hs.317593	<b>TMCO3</b>	transmembrane and coiled-coil domains 3
2.7	222642_s_at	Hs.31082	<b>TMEM33</b>	transmembrane protein 33
2.7	209770_at	Hs.191510	<b>BTN3A1</b>	butyrophilin, subfamily 3, member A1
2.7	221050_s_at	Hs.485449	<b>GTPBP2</b>	GTP binding protein 2
2.7	204976_s_at	Hs.656243	<b>AMMECR1</b>	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1
2.7	229175_at	Hs.514602	<b>SMYD4</b>	SET and MYND domain containing 4
2.7	226227_x_at	Hs.356766	<b>C20ORF199</b>	chromosome 20 open reading frame 199
2.7	213786_at	Hs.34576	<b>TAX1BP1</b>	Tax1 (human T-cell leukemia virus type I) binding protein 1
2.7	221912_s_at	Hs.534482	<b>CCDC28B (includes)</b>	coiled-coil domain containing 28B
2.7	214773_x_at	Hs.209431	<b>TIPRL</b>	TIP41, TOR signaling pathway regulator-like (S. cerevisiae)
2.6	53912_at	Hs.15827	<b>SNX11</b>	sorting nexin 11
2.6	223375_at	Hs.485270	<b>TBC1D22B</b>	TBC1 domain family, member 22B
2.6	225085_at	Hs.96513	<b>USP40</b>	ubiquitin specific peptidase 40
2.6	225855_at	Hs.654802	<b>EPB41L5</b>	erythrocyte membrane protein band 4.1 like 5
2.6	203502_at	Hs.198365	<b>BPGM</b>	2,3-bisphosphoglycerate mutase
2.6	218562_s_at	Hs.189782	<b>TMEM57</b>	transmembrane protein 57
2.6	203640_at	Hs.657347	<b>MBNL2</b>	muscleblind-like 2 (Drosophila)
2.6	1553677_a_at	Hs.209431	<b>TIPRL</b>	TIP41, TOR signaling pathway regulator-like (S. cerevisiae)
2.6	1557828_a_at	Hs.558531	<b>C5ORF28</b>	chromosome 5 open reading frame 28
2.6	200867_at	Hs.144949	<b>RNF114</b>	ring finger protein 114
2.6	226776_at	Hs.492555	<b>ENY2</b>	enhancer of yellow 2 homolog (Drosophila)
2.5	214838_at	Hs.645435	<b>SFT2D2</b>	SFT2 domain containing 2
2.5	228425_at	Hs.656660	<b>LOC654433</b>	hypothetical LOC654433

2.5	214152_at	Hs.285051	<b>CCPG1</b>	cell cycle progression 1
2.5	226810_at	Hs.648434	<b>OGFRL1</b>	opioid growth factor receptor-like 1
2.5	212297_at	Hs.529609	<b>ATP13A3 (includes</b>	ATPase type 13A3
2.5	225956_at	Hs.484195	<b>C5ORF41</b>	chromosome 5 open reading frame 41
2.5	229983_at	Hs.58924	<b>TIGD2 (includes EC</b>	tigger transposable element derived 2
2.5	218195_at	Hs.15929	<b>C6ORF211</b>	chromosome 6 open reading frame 211
2.5	220952_s_at	Hs.188614	<b>PLEKHA5</b>	pleckstrin homology domain containing, family A member 5
2.5	228054_at	Hs.478729	<b>TMEM44</b>	transmembrane protein 44
2.5	217783_s_at	Hs.515890	<b>YPEL5</b>	yippe-like 5 (Drosophila)
2.5	220985_s_at	Hs.696153	<b>RNF170 (includes E</b>	ring finger protein 170
2.5	203024_s_at	Hs.355177	<b>C5ORF15</b>	chromosome 5 open reading frame 15
2.5	213083_at	Hs.654897	<b>SLC35D2</b>	solute carrier family 35, member D2
2.5	235125_x_at	Hs.632419	<b>FAM73A</b>	family with sequence similarity 73, member A
2.5	1555874_x_at	Hs.380240	<b>MGC21881</b>	hypothetical locus MGC21881
2.5	222574_s_at	Hs.29403	<b>DHX40</b>	DEAH (Asp-Glu-Ala-His) box polypeptide 40
2.5	235143_at	Hs.659209	<b>SLC10A7</b>	solute carrier family 10 (sodium/bile acid cotransporter family), member 7
2.5	219410_at	Hs.658956	<b>TMEM45A</b>	transmembrane protein 45A
2.5	223178_s_at	Hs.520341	<b>NT5DC1</b>	5'-nucleotidase domain containing 1
2.4	218706_s_at	Hs.363558	<b>GRAMD3</b>	GRAM domain containing 3
2.4	225455_at	Hs.435967	<b>TADA1L</b>	transcriptional adaptor 1 (HF11 homolog, yeast)-like
2.4	225320_at	Hs.591366	<b>CCDC109A</b>	coiled-coil domain containing 109A
2.4	231995_at	Hs.178357	<b>C9ORF82</b>	chromosome 9 open reading frame 82
2.4	228703_at	Hs.660541	<b>P4HA3</b>	prolyl 4-hydroxylase, alpha polypeptide III
2.4	219479_at	Hs.408629	<b>KDEL1C</b>	KDEL (Lys-Asp-Glu-Leu) containing 1
2.4	230379_x_at	Hs.433466	<b>C2ORF56</b>	chromosome 2 open reading frame 56
2.4	232591_s_at	Hs.108530	<b>TMEM30A</b>	transmembrane protein 30A
2.4	210788_s_at	Hs.59719	<b>DHR57 (includes E</b>	dehydrogenase/reductase (SDR family) member 7
2.4	224949_at	Hs.372050	<b>YIPF5</b>	Yip1 domain family, member 5
2.4	215207_x_at	Hs.525826	<b>NUS1 (includes EG</b>	nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cerevisiae)
2.4	228026_at	Hs.709277	<b>RP5-1000E10.4</b>	suppressor of IKK epsilon
2.4	225378_at	Hs.343873	<b>VPS37A</b>	vacuolar protein sorting 37 homolog A (S. cerevisiae)
2.4	222811_at	Hs.72782	<b>FTSJ1</b>	FtsJ methyltransferase domain containing 1
2.4	223361_at	Hs.600861	<b>C6ORF115</b>	chromosome 6 open reading frame 115
2.3	219335_at	Hs.522729	<b>ARMCX5</b>	armadillo repeat containing, X-linked 5
2.3	225089_at	Hs.96513	<b>USP40</b>	ubiquitin specific peptidase 40
2.3	225999_at	Hs.504670	<b>RIMKLB</b>	ribosomal modification protein rimK-like family member B
2.3	220175_s_at	Hs.597638	<b>CBWD5</b>	COBW domain containing 5
2.3	218637_at	Hs.515317	<b>IMPACT</b>	Impact homolog (mouse)
2.3	211084_x_at	Hs.696257	<b>PRKD3</b>	protein kinase D3
2.3	224850_at	Hs.435948	<b>ATAD1</b>	ATPase family, AAA domain containing 1
2.3	219553_at	Hs.706952	<b>NME7</b>	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)
2.3	218379_at	Hs.533736	<b>RBM7</b>	RNA binding motif protein 7
2.3	225222_at	Hs.124156	<b>HIAT1 (includes EG</b>	hippocampus abundant transcript 1
2.3	225213_at	Hs.13854	<b>PPTC7</b>	PTC7 protein phosphatase homolog (S. cerevisiae)
2.3	224669_at	---	<b>SYS1 (includes EG;</b>	SYS1 Golgi-localized integral membrane protein homolog (S. cerevisiae)
2.3	213322_at	Hs.227457	<b>C6ORF130</b>	chromosome 6 open reading frame 130
2.3	224692_at	Hs.304376	<b>PPP1R15B</b>	protein phosphatase 1, regulatory (inhibitor) subunit 15B
2.3	212499_s_at	Hs.594338	<b>FCF1 (includes EG;</b>	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)
2.3	225040_s_at	Hs.282260	<b>RPE (includes EG;</b>	ribulose-5-phosphate-3-epimerase
2.2	225621_at	Hs.40919	<b>ALG2</b>	asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)
2.2	225438_at	Hs.558577	<b>NUDCC1</b>	NudC domain containing 1
2.2	221988_at	Hs.356467	<b>C19ORF42</b>	chromosome 19 open reading frame 42
2.2	235241_at	Hs.649685	<b>SLC38A9</b>	solute carrier family 38, member 9
2.2	212164_at	Hs.497443	<b>TMEM183A</b>	transmembrane protein 183A
2.2	213118_at	Hs.620701	<b>UHRF1BP1L</b>	UHRF1 binding protein 1-like
2.2	1555910_at	Hs.126906	<b>PTCD2</b>	pentatricopeptide repeat domain 2
2.2	233124_s_at	Hs.486410	<b>ECHDC1</b>	enoyl Coenzyme A hydratase domain containing 1
2.2	220486_x_at	Hs.496572	<b>TMEM164</b>	transmembrane protein 164
2.2	227413_at	Hs.591733	<b>UBLCP1</b>	ubiquitin-like domain containing CTD phosphatase 1
2.2	241933_at	Hs.406917	<b>QRSL1</b>	glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1
2.2	203480_s_at	Hs.270851	<b>OTUD4</b>	OTU domain containing 4
2.2	223113_at	Hs.406530	<b>TMEM138</b>	transmembrane protein 138
2.2	57703_at	Hs.240770	<b>SEN5 (includes E</b>	SUMO1/sentrin specific peptidase 5

2.2	223192_at	Hs.403790	<b>SLC25A28</b>	solute carrier family 25, member 28
2.2	218826_at	Hs.524014	<b>SLC35F2</b>	solute carrier family 35, member F2
2.2	224826_at	Hs.636359	<b>RP5-1022P6.2</b>	hypothetical protein KIAA1434
2.2	228024_at	Hs.343873	<b>VPS37A</b>	vacuolar protein sorting 37 homolog A (S. cerevisiae)
2.1	222825_at	Hs.30532	<b>OTUD6B</b>	OTU domain containing 6B
2.1	200868_s_at	Hs.144949	<b>RNF114</b>	ring finger protein 114
2.1	204656_at	Hs.521482	<b>SHB</b>	Src homology 2 domain containing adaptor protein B
2.1	223058_at	Hs.446315	<b>FAM107B</b>	family with sequence similarity 107, member B
2.1	221423_s_at	Hs.372050	<b>YIPF5</b>	Yip1 domain family, member 5
2.1	222751_at	Hs.706966	<b>HERPUD2</b>	HERPUD family member 2
2.1	226301_at	Hs.347144	<b>C6ORF192</b>	chromosome 6 open reading frame 192
2.1	219774_at	Hs.107845	<b>CCDC93</b>	coiled-coil domain containing 93
2.1	226496_at	Hs.654700	<b>ZCCHC7</b>	zinc finger, CCHC domain containing 7
2.1	209479_at	Hs.412019	<b>CCDC28A</b>	coiled-coil domain containing 28A
2.1	220235_s_at	Hs.25245	<b>C1ORF103</b>	chromosome 1 open reading frame 103
2.1	238860_at	Hs.227457	<b>C6ORF130</b>	chromosome 6 open reading frame 130
2.1	222700_at	Hs.714852	<b>ATL2</b>	atlastin GTPase 2
2.1	225955_at	Hs.591142	<b>METRNL</b>	meteorin, glial cell differentiation regulator-like
2.1	203695_s_at	Hs.520708	<b>DFNA5</b>	deafness, autosomal dominant 5
2.1	228652_at	Hs.109540	<b>ZNF776</b>	zinc finger protein 776
2.1	224831_at	Hs.127126	<b>CPEB4</b>	cytoplasmic polyadenylation element binding protein 4
2.1	218647_s_at	Hs.301564	<b>YRDC</b>	yrdC domain containing (E. coli)
2.1	224953_at	Hs.372050	<b>YIPF5</b>	Yip1 domain family, member 5
2.1	218277_s_at	Hs.29403	<b>DHX40</b>	DEAH (Asp-Glu-Ala-His) box polypeptide 40
2.1	225439_at	Hs.558577	<b>NUDCD1</b>	NudC domain containing 1
2.1	210041_s_at	Hs.708038	<b>PGM3</b>	phosphoglucomutase 3
2	213082_s_at	Hs.654897	<b>SLC35D2</b>	solute carrier family 35, member D2
2	223349_s_at	Hs.293753	<b>BOK</b>	BCL2-related ovarian killer
63.1	230499_at	Hs.664299		
25.1	229242_at	Hs.23349		
21.9	222877_at	Hs.660596		
15.3	235971_at	Hs.601963		
13.4	1566342_at	Hs.702118		
12.8	235299_at	Hs.593516		
12.6	242881_x_at	Hs.537370		
10.8	229024_at	Hs.435132		
10.3	236704_at	Hs.714845		
9.8	240460_at	Hs.134215		
9.3	227755_at	Hs.711835		
8.2	239587_at	Hs.201600		
8	1558783_at	Hs.677281		
7.5	242546_at	Hs.536395		
7.2	230336_at	Hs.469971		
6.1	236251_at	Hs.697073		
5.9	231882_at	Hs.536395		
5.8	235295_at	Hs.714353		
5.8	231894_at	Hs.656334		
5.6	242853_at	Hs.687749		
5.2	232615_at	Hs.663064		
5.2	227125_at	Hs.709795		
5.2	228827_at	Hs.547787		
5.2	213790_at	Hs.594351		
4.8	227565_at	Hs.633326		
4.7	228116_at	Hs.556122		
4.5	231111_at	Hs.659218		
3.9	227107_at	Hs.503584		
3.8	238879_at	Hs.592789		
3.7	232297_at	Hs.633187		
3.7	232484_at	Hs.30483		
3.6	226777_at	Hs.594351		
3.6	236277_at	Hs.655757		
3.6	235109_at	Hs.596026		
3.5	1558102_at	Hs.660989		

	3.5	239010_at	Hs.536395		
	3.3	235733_at	Hs.659021		
	3.3	228603_at	Hs.595349		
	3.2	217604_at	Hs.635110		
	3.2	225412_at	Hs.656711		
	3.2	1558103_a_at	Hs.660989		
	3.1	227458_at	Hs.655937		
	2.9	226520_at	Hs.658311		
	2.9	227585_at	Hs.593514		
	2.8	235759_at	Hs.302754		
	2.8	225411_at	Hs.656711		
	2.8	235459_at	Hs.551915		
	2.7	214078_at	Hs.655757		
	2.7	238739_at	Hs.30280		
	2.7	234997_x_at	Hs.498418		
	2.7	1558236_at	---		
	2.6	226779_at	Hs.599179		
	2.5	1560792_at	Hs.662003		
	2.4	229537_at	Hs.654822		
	2.4	217625_x_at	Hs.529860		
	2.3	229355_at	Hs.595430		
	2.3	209140_x_at	Hs.549053		
	2.3	242300_at	Hs.48444		
	2.3	214126_at	Hs.655589		
	2.3	240277_at	Hs.606496		
	2.2	236322_at	Hs.661081		
	2.2	235801_at	Hs.426324		
	2.2	238829_at	Hs.662429		
	2.1	242879_x_at	Hs.668867		
	2.1	226756_at	Hs.714959		
Extracellular Space	-2.1	219439_at	Hs.592180	<b>C1GALT1</b>	core 1 synthase, glycoprotein-N-acetyl/galactosamine 3-beta-galactosyltransferase, 1
	-2.1	49679_s_at	Hs.567417	<b>MMP24</b>	matrix metalloproteinase 24 (membrane-inserted)
	-2.2	227401_at	Hs.655142	<b>IL17D</b>	interleukin 17D
	-2.2	226534_at	Hs.1048	<b>KITLG</b>	KIT ligand
	-2.2	239909_at	Hs.522019	<b>ADAMTSL1</b>	ADAMTS-like 1
	-2.3	200696_s_at	Hs.522373	<b>GSN</b>	gelsolin (amyloidosis, Finnish type)
	-2.3	228312_at	Hs.25391	<b>PI16</b>	peptidase inhibitor 16
	-2.4	217511_at	Hs.632079	<b>KAZALD1</b>	Kazal-type serine peptidase inhibitor domain 1
	-2.4	219500_at	Hs.502977	<b>CLCF1</b>	cardiotrophin-like cytokine factor 1
	-2.4	228520_s_at	Hs.709184	<b>APLP2</b>	amyloid beta (A4) precursor-like protein 2
	-2.5	35666_at	Hs.32981	<b>SEMA3F</b>	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F
	-2.5	229442_at	Hs.208701	<b>C18ORF54</b>	chromosome 18 open reading frame 54
	-2.6	226722_at	Hs.134742	<b>FAM20C</b>	family with sequence similarity 20, member C
	-2.6	221953_s_at	Hs.567417	<b>MMP24</b>	matrix metalloproteinase 24 (membrane-inserted)
	-3	209652_s_at	Hs.252820	<b>PGF</b>	placental growth factor
	-3.3	221029_s_at	Hs.306051	<b>WNT5B</b>	wingless-type MMTV integration site family, member 5B
	-3.3	239336_at	Hs.164226	<b>THBS1</b>	thrombospondin 1
	-3.4	202912_at	Hs.441047	<b>ADM</b>	adrenomedullin
	-3.5	201508_at	Hs.462998	<b>IGFBP4</b>	insulin-like growth factor binding protein 4
	-3.6	212573_at	Hs.167115	<b>ENDOD1</b>	endonuclease domain containing 1
	-4	228253_at	Hs.591563	<b>LOXL3</b>	lysyl oxidase-like 3
	-4.7	225975_at	Hs.591691	<b>PCDH18</b>	protocadherin 18
	-8.3	213661_at	Hs.55044	<b>DKFZP586H2123</b>	regeneration associated muscle protease
	-8.8	201860_s_at	Hs.491582	<b>PLAT</b>	plasminogen activator, tissue
	-16.3	1556316_s_at	Hs.707281	<b>MIF</b>	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
	-22.1	206614_at	Hs.1573	<b>GDF5</b>	growth differentiation factor 5
	-39.5	235504_at	Hs.98206	<b>GREM2</b>	gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis)
	-89.8	240509_s_at	Hs.98206	<b>GREM2</b>	gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis)
	-131.1	220794_at	Hs.98206	<b>GREM2</b>	gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis)
Plasma Membrane	-1.9	211026_s_at	Hs.277035	<b>MGLL</b>	monoglyceride lipase
	-2	218421_at	Hs.200668	<b>CERK</b>	ceramide kinase
	-2.1	202479_s_at	Hs.467751	<b>TRIB2</b>	tribbles homolog 2 (Drosophila)
	-2.1	1554428_s_at	Hs.26229	<b>NLGN2</b>	neuroligin 2

-2.1	227411_at	Hs.585010	<b>WTIP</b>	Wilms tumor 1 interacting protein
-2.1	202686_s_at	Hs.590970	<b>AXL</b>	AXL receptor tyrosine kinase
-2.1	210220_at	Hs.142912	<b>FZD2</b>	frizzled homolog 2 (Drosophila)
-2.1	201324_at	Hs.713606	<b>EMP1</b>	epithelial membrane protein 1
-2.2	203735_x_at	Hs.172445	<b>PPFIBP1</b>	PTPRF interacting protein, binding protein 1 (liprin beta 1)
-2.2	396_f_at	Hs.631624	<b>EPOR</b>	erythropoietin receptor
-2.2	226545_at	Hs.399891	<b>CD109</b>	CD109 molecule
-2.3	228660_x_at	Hs.25887	<b>SEMA4F</b>	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F
-2.3	215034_s_at	Hs.351316	<b>TM4SF1</b>	transmembrane 4 L six family member 1
-2.3	203131_at	Hs.74615	<b>PDGFRA</b>	platelet-derived growth factor receptor, alpha polypeptide
-2.3	225078_at	Hs.531561	<b>EMP2</b>	epithelial membrane protein 2
-2.4	227897_at	Hs.98643	<b>RAP2B</b>	RAP2B, member of RAS oncogene family
-2.4	203017_s_at	Hs.22587	<b>SSX2IP</b>	synovial sarcoma, X breakpoint 2 interacting protein
-2.4	219282_s_at	Hs.279746	<b>TRPV2</b>	transient receptor potential cation channel, subfamily V, member 2
-2.5	226625_at	Hs.482390	<b>TGFBR3</b>	transforming growth factor, beta receptor III
-2.5	226728_at	Hs.363138	<b>SLC27A1</b>	solute carrier family 27 (fatty acid transporter), member 1
-2.5	204975_at	Hs.531561	<b>EMP2</b>	epithelial membrane protein 2
-2.5	201325_s_at	Hs.713606	<b>EMP1</b>	epithelial membrane protein 1
-2.5	202756_s_at	Hs.328232	<b>GPC1</b>	glypican 1
-2.5	201951_at	Hs.591293	<b>ALCAM</b>	activated leukocyte cell adhesion molecule
-2.5	225079_at	Hs.531561	<b>EMP2</b>	epithelial membrane protein 2
-2.6	200623_s_at	Hs.643483	<b>CALM3</b>	calmodulin 3 (phosphorylase kinase, delta)
-2.6	215783_s_at	Hs.75431	<b>ALPL</b>	alkaline phosphatase, liver/bone/kidney
-2.6	201952_at	Hs.591293	<b>ALCAM</b>	activated leukocyte cell adhesion molecule
-2.6	215305_at	Hs.74615	<b>PDGFRA</b>	platelet-derived growth factor receptor, alpha polypeptide
-2.6	201137_s_at	Hs.485130	<b>HLA-DPB1</b>	major histocompatibility complex, class II, DP beta 1
-2.6	230372_at	Hs.159226	<b>HAS2</b>	hyaluronan synthase 2
-2.7	214708_at	Hs.655236	<b>SNTB1</b>	syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1)
-2.8	218902_at	Hs.495473	<b>NOTCH1</b>	Notch homolog 1, translocation-associated (Drosophila)
-2.8	210124_x_at	Hs.25887	<b>SEMA4F</b>	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F
-2.9	203065_s_at	Hs.74034	<b>CAV1</b>	caveolin 1, caveolae protein, 22kDa
-2.9	225867_at	Hs.372579	<b>VASN</b>	vasorin
-3	204451_at	Hs.94234	<b>FZD1</b>	frizzled homolog 1 (Drosophila)
-3	204462_s_at	Hs.75317	<b>SLC16A2</b>	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)
-3.1	235518_at	Hs.31961	<b>SLC8A1</b>	solute carrier family 8 (sodium/calcium exchanger), member 1
-3.1	213002_at	---	<b>MARCKS (includes</b>	myristoylated alanine-rich protein kinase C substrate
-3.1	239217_x_at	Hs.463421	<b>ABCC3</b>	ATP-binding cassette, sub-family C (CFTR/MRP), member 3
-3.1	225093_at	Hs.133135	<b>UTRN</b>	utrophin
-3.2	212135_s_at	Hs.343522	<b>ATP2B4</b>	ATPase, Ca++ transporting, plasma membrane 4
-3.2	212494_at	Hs.6147	<b>TENC1</b>	tensin like C1 domain containing phosphatase (tensin 2)
-3.3	202037_s_at	Hs.713546	<b>SFRP1</b>	secreted frizzled-related protein 1
-3.5	226571_s_at	Hs.712625	<b>PTPRS (includes E</b>	protein tyrosine phosphatase, receptor type, S
-3.5	208749_x_at	Hs.179986	<b>FLOT1</b>	flotillin 1
-3.5	210142_x_at	Hs.179986	<b>FLOT1</b>	flotillin 1
-3.5	226189_at	Hs.592171	<b>ITGB8</b>	integrin, beta 8
-3.6	211600_at	Hs.160871	<b>PTPRO</b>	protein tyrosine phosphatase, receptor type, O
-3.6	201809_s_at	Hs.76753	<b>ENG</b>	endoglin
-3.6	205532_s_at	Hs.171054	<b>CDH6</b>	cadherin 6, type 2, K-cadherin (fetal kidney)
-3.6	38671_at	Hs.301685	<b>PLXND1</b>	plexin D1
-3.7	213895_at	Hs.713606	<b>EMP1</b>	epithelial membrane protein 1
-3.8	219250_s_at	Hs.41296	<b>FLRT3</b>	fibronectin leucine rich transmembrane protein 3
-3.8	209972_s_at	Hs.301613	<b>JTV1</b>	JTV1 gene
-4	203908_at	Hs.5462	<b>SLC4A4</b>	solute carrier family 4, sodium bicarbonate cotransporter, member 4
-4	212298_at	Hs.131704	<b>NRP1</b>	neuropilin 1
-4.1	209815_at	Hs.494538	<b>PTCH1</b>	patched homolog 1 (Drosophila)
-4.2	227955_s_at	Hs.288741	<b>EFNA5</b>	ephrin-A5
-4.3	227481_at	Hs.16064	<b>CNKSR3</b>	CNKSR family member 3
-4.4	223092_at	Hs.156727	<b>ANKH</b>	ankylosis, progressive homolog (mouse)
-4.5	222853_at	Hs.41296	<b>FLRT3</b>	fibronectin leucine rich transmembrane protein 3
-4.6	233814_at	Hs.288741	<b>EFNA5</b>	ephrin-A5
-4.6	223093_at	Hs.156727	<b>ANKH</b>	ankylosis, progressive homolog (mouse)
-4.9	212909_at	Hs.714802	<b>LYPD1</b>	LY6/PLAUR domain containing 1
-4.9	211432_s_at	Hs.381282	<b>TYRO3</b>	TYRO3 protein tyrosine kinase



	-5	210602_s_at	Hs.171054	<b>CDH6</b>	cadherin 6, type 2, K-cadherin (fetal kidney)
	-5	212230_at	Hs.708050	<b>PPAP2B</b>	phosphatidic acid phosphatase type 2B
	-5	219025_at	Hs.195727	<b>CD248</b>	CD248 molecule, endosialin
	-5.1	210510_s_at	Hs.131704	<b>NRP1</b>	neuropilin 1
	-5.5	205533_s_at	Hs.171054	<b>CDH6</b>	cadherin 6, type 2, K-cadherin (fetal kidney)
	-5.5	204401_at	Hs.10082	<b>KCNN4</b>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4
	-5.7	203835_at	Hs.151641	<b>LRRC32</b>	leucine rich repeat containing 32
	-5.9	212226_s_at	Hs.405156	<b>PPAP2B</b>	phosphatidic acid phosphatase type 2B
	-6.1	208161_s_at	Hs.463421	<b>ABCC3</b>	ATP-binding cassette, sub-family C (CFTR/MRP), member 3
	-6.4	230147_at	Hs.42502	<b>F2RL2</b>	coagulation factor II (thrombin) receptor-like 2
	-6.9	203989_x_at	Hs.482562	<b>F2R</b>	coagulation factor II (thrombin) receptor
	-7.3	219789_at	Hs.237028	<b>NPR3</b>	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
	-7.7	223094_s_at	Hs.156727	<b>ANKH</b>	ankylosis, progressive homolog (mouse)
	-8	202478_at	Hs.467751	<b>TRIB2</b>	tribbles homolog 2 (Drosophila)
	-8	219416_at	Hs.128856	<b>SCARA3</b>	scavenger receptor class A, member 3
	-8.5	209355_s_at	Hs.405156	<b>PPAP2B</b>	phosphatidic acid phosphatase type 2B
	-8.6	227812_at	Hs.149168	<b>TNFRSF19</b>	tumor necrosis factor receptor superfamily, member 19
	-8.6	224762_at	Hs.479384	<b>SERINC2</b>	serine incorporator 2
	-8.7	219790_s_at	Hs.237028	<b>NPR3</b>	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
	-9	228407_at	Hs.12923	<b>SCUBE3</b>	signal peptide, CUB domain, EGF-like 3
	-9.1	201650_at	Hs.514174	<b>JUP</b>	junction plakoglobin
	-10	205066_s_at	Hs.527295	<b>ENPP1</b>	ectonucleotide pyrophosphatase/phosphodiesterase 1
	-11	206631_at	Hs.2090	<b>PTGER2</b>	prostaglandin E receptor 2 (subtype EP2), 53kDa
	-12.6	224321_at	Hs.144513	<b>TMEFF2</b>	transmembrane protein with EGF-like and two follistatin-like domains 2
	-12.6	212558_at	Hs.436944	<b>SPRY1</b>	sprouty homolog 1, antagonist of FGF signaling (Drosophila)
	-14.7	219937_at	Hs.199814	<b>TRHDE</b>	thyrotropin-releasing hormone degrading enzyme
	-20	230290_at	Hs.12923	<b>SCUBE3</b>	signal peptide, CUB domain, EGF-like 3
	-46.6	221019_s_at	Hs.464422	<b>COLEC12</b>	collectin sub-family member 12
	-47.9	205856_at	Hs.101307	<b>SLC14A1</b>	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)
	-67.6	206766_at	Hs.158237	<b>ITGA10</b>	integrin, alpha 10
Cytoplasm	-2	205006_s_at	Hs.60339	<b>NMT2</b>	N-myristoyltransferase 2
	-2	222547_at	Hs.431550	<b>MAP4K4</b>	mitogen-activated protein kinase kinase kinase kinase 4
	-2.1	210686_x_at	Hs.180408	<b>SLC25A16</b>	solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16
	-2.1	221660_at	Hs.247831	<b>MYLC2PL</b>	myosin light chain 2, precursor lymphocyte-specific
	-2.1	1552619_a_at	Hs.62180	<b>ANLN</b>	anillin, actin binding protein
	-2.1	202053_s_at	Hs.499886	<b>ALDH3A2</b>	aldehyde dehydrogenase 3 family, member A2
	-2.2	202154_x_at	Hs.511743	<b>TUBB3</b>	tubulin, beta 3
	-2.2	203386_at	Hs.210891	<b>TBC1D4</b>	TBC1 domain family, member 4
	-2.2	209190_s_at	Hs.529451	<b>DIAPH1</b>	diaphanous homolog 1 (Drosophila)
	-2.2	203756_at	Hs.533719	<b>ARHGEF17</b>	Rho guanine nucleotide exchange factor (GEF) 17
	-2.2	228310_at	Hs.497893	<b>ENAH</b>	enabled homolog (Drosophila)
	-2.2	225665_at	Hs.444451	<b>ZAK</b>	sterile alpha motif and leucine zipper containing kinase AZK
	-2.2	203126_at	Hs.367992	<b>IMPA2</b>	inositol(myo)-1(or 4)-monophosphatase 2
	-2.3	202389_s_at	Hs.518450	<b>HTT</b>	huntingtin
	-2.3	222077_s_at	Hs.505469	<b>RACGAP1</b>	Rac GTPase activating protein 1
	-2.3	208050_s_at	Hs.368982	<b>CASP2</b>	caspase 2, apoptosis-related cysteine peptidase
	-2.3	209286_at	Hs.369574	<b>CDC42EP3</b>	CDC42 effector protein (Rho GTPase binding) 3
	-2.3	218424_s_at	Hs.647822	<b>STEAP3</b>	STEAP family member 3
	-2.3	222942_s_at	Hs.586279	<b>TIAM2 (includes EC</b>	T-cell lymphoma invasion and metastasis 2
	-2.4	205125_at	Hs.80776	<b>PLCD1</b>	phospholipase C, delta 1
	-2.4	227847_at	Hs.28020	<b>EPM2AIP1</b>	EPM2A (laforin) interacting protein 1
	-2.4	205640_at	Hs.523841	<b>ALDH3B1</b>	aldehyde dehydrogenase 3 family, member B1
	-2.4	222608_s_at	Hs.62180	<b>ANLN</b>	anillin, actin binding protein
	-2.4	207876_s_at	Hs.58414	<b>FLNC</b>	filamin C, gamma (actin binding protein 280)
	-2.4	211992_at	Hs.356604	<b>WNK1</b>	WNK lysine deficient protein kinase 1
	-2.4	206298_at	Hs.655672	<b>ARHGAP22</b>	Rho GTPase activating protein 22
	-2.4	212242_at	Hs.75318	<b>TUBA4A</b>	tubulin, alpha 4a
	-2.5	226507_at	Hs.435714	<b>PAK1</b>	p21 protein (Cdc42/Rac)-activated kinase 1
	-2.5	32094_at	Hs.158304	<b>CHST3</b>	carbohydrate (chondroitin 6) sulfotransferase 3
	-2.5	222463_s_at	Hs.504003	<b>BACE1</b>	beta-site APP-cleaving enzyme 1
	-2.6	225590_at	Hs.301804	<b>SH3RF1</b>	SH3 domain containing ring finger 1
	-2.6	225496_s_at	Hs.369520	<b>SYTL2</b>	synaptotagmin-like 2
	-2.6	209834_at	Hs.158304	<b>CHST3</b>	carbohydrate (chondroitin 6) sulfotransferase 3

-2.6	226495_at	Hs.570362	VISA	virus-induced signaling adapter
-2.6	224753_at	Hs.434886	CDCA5	cell division cycle associated 5
-2.7	203118_at	Hs.648612	PCSK7	proprotein convertase subtilisin/kexin type 7
-2.7	212233_at	Hs.637017	MAP1B	microtubule-associated protein 1B
-2.7	204729_s_at	Hs.647024	STX1A	syntaxin 1A (brain)
-2.7	210880_s_at	Hs.24587	EFS	embryonal Fyn-associated substrate
-2.7	218149_s_at	Hs.699209	ZNF395	zinc finger protein 395
-2.7	228674_s_at	Hs.593614	EML4	echinoderm microtubule associated protein like 4
-2.7	225942_at	Hs.247460	NLN	neurolysin (metallopeptidase M3 family)
-2.7	214433_s_at	Hs.632460	SELENBP1	selenium binding protein 1
-2.8	212838_at	Hs.500771	DNMBP	dynamin binding protein
-2.8	204955_at	Hs.15154	SRPX	sushi-repeat-containing protein, X-linked
-2.8	201205_at	---	RRBP1	ribosome binding protein 1 homolog 180kDa (dog)
-2.8	206364_at	Hs.3104	KIF14	kinesin family member 14
-2.9	224627_at	Hs.443134	GBA2	glucosidase, beta (bile acid) 2
-2.9	223652_at	Hs.709828	AS3MT	arsenic (+3 oxidation state) methyltransferase
-2.9	223307_at	Hs.524216	CDCA3	cell division cycle associated 3
-2.9	212372_at	Hs.16355	MYH10	myosin, heavy chain 10, non-muscle
-2.9	201087_at	Hs.446336	PXN	paxillin
-2.9	226084_at	Hs.637017	MAP1B	microtubule-associated protein 1B
-2.9	1553551_s_at	---	ND2	NADH dehydrogenase, subunit 2 (complex I)
-3	227697_at	Hs.527973	SOCS3	suppressor of cytokine signaling 3
-3	230100_x_at	Hs.435714	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1
-3	219599_at	Hs.648394	EIF4B	eukaryotic translation initiation factor 4B
-3.1	212801_at	Hs.119594	CIT	citron (rho-interacting, serine/threonine kinase 21)
-3.1	220935_s_at	Hs.269560	CDK5RAP2	CDK5 regulatory subunit associated protein 2
-3.1	227530_at	Hs.371240	AKAP12	A kinase (PRKA) anchor protein 12
-3.1	205752_s_at	Hs.75652	GSTM5	glutathione S-transferase mu 5
-3.1	202954_at	Hs.93002	UBE2C	ubiquitin-conjugating enzyme E2C
-3.2	204686_at	Hs.471508	IRS1	insulin receptor substrate 1
-3.2	218899_s_at	Hs.533446	BAALC	brain and acute leukemia, cytoplasmic
-3.3	204277_s_at	Hs.512619	TK2	thymidine kinase 2, mitochondrial
-3.3	229044_at	Hs.585066	NUDT17 (includes I	nudix (nucleoside diphosphate linked moiety X)-type motif 17
-3.3	218678_at	Hs.527971	NES	nestin
-3.3	219138_at	Hs.446522	RPL14	ribosomal protein L14
-3.4	233540_s_at	Hs.269560	CDK5RAP2	CDK5 regulatory subunit associated protein 2
-3.4	203633_at	Hs.503043	CPT1A	carnitine palmitoyltransferase 1A (liver)
-3.4	203680_at	Hs.433068	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta
-3.4	214001_x_at	Hs.406620	RPS10	ribosomal protein S10
-3.5	1554408_a_at	Hs.515122	TK1	thymidine kinase 1, soluble
-3.6	239218_at	Hs.655694	PDE1C	phosphodiesterase 1C, calmodulin-dependent 70kDa
-3.6	218755_at	Hs.73625	KIF20A	kinesin family member 20A
-3.7	212953_x_at	Hs.515162	CALR	calreticulin
-3.7	229354_at	Hs.50823	PDCD6	programmed cell death 6
-3.7	203151_at	Hs.194301	MAP1A	microtubule-associated protein 1A
-3.8	221436_s_at	Hs.524216	CDCA3	cell division cycle associated 3
-3.8	227529_s_at	Hs.371240	AKAP12	A kinase (PRKA) anchor protein 12
-3.9	202338_at	Hs.515122	TK1	thymidine kinase 1, soluble
-4	205211_s_at	Hs.1030	RIN1	Ras and Rab interactor 1
-4	228204_at	Hs.89545	PSMB4	proteasome (prosome, macropain) subunit, beta type, 4
-4	236641_at	Hs.3104	KIF14	kinesin family member 14
-4.2	202575_at	Hs.405662	CRABP2	cellular retinoic acid binding protein 2
-4.5	210026_s_at	Hs.57973	CARD10	caspase recruitment domain family, member 10
-4.6	209811_at	Hs.368982	CASP2	caspase 2, apoptosis-related cysteine peptidase
-4.6	223216_x_at	Hs.695998	ZNF395	zinc finger protein 395
-4.7	202648_at	---	RPS19	ribosomal protein S19
-4.8	201171_at	Hs.484188	ATP6V0E1	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1
-5	225214_at	Hs.213470	PSMB7	proteasome (prosome, macropain) subunit, beta type, 7
-5.1	214315_x_at	Hs.515162	CALR	calreticulin
-5.2	215116_s_at	Hs.522413	DNM1	dynamin 1
-5.3	242979_at	Hs.471508	IRS1	insulin receptor substrate 1
-5.4	230266_at	Hs.534612	RAB7B	RAB7B, member RAS oncogene family
-5.5	210106_at	Hs.600940	RDH5	retinol dehydrogenase 5 (11-cis/9-cis)

	-5.9	213736_at	Hs.1342	<b>COX5B</b>	cytochrome c oxidase subunit Vb
	-5.9	203217_s_at	Hs.415117	<b>ST3GAL5</b>	ST3 beta-galactoside alpha-2,3-sialyltransferase 5
	-6.1	202028_s_at	Hs.380953	<b>RPL38 (includes EC</b>	ribosomal protein L38
	-6.3	221943_x_at	Hs.380953	<b>RPL38 (includes EC</b>	ribosomal protein L38
	-7.3	222862_s_at	Hs.559718	<b>AK5</b>	adenylate kinase 5
	-7.7	213642_at	---	<b>RPL27</b>	ribosomal protein L27
	-7.7	214041_x_at	Hs.433701	<b>RPL37A (includes E</b>	ribosomal protein L37a
	-7.9	226632_at	Hs.95120	<b>CYGB</b>	cytoglobin
	-8.1	227123_at	Hs.123072	<b>RAB3B</b>	RAB3B, member RAS oncogene family
	-8.1	205924_at	Hs.123072	<b>RAB3B</b>	RAB3B, member RAS oncogene family
	-9	224925_at	Hs.153310	<b>PREX1</b>	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
	-9.5	200908_s_at	Hs.437594	<b>RPLP2</b>	ribosomal protein, large, P2
	-9.6	227889_at	Hs.460857	<b>LPCAT2</b>	lysophosphatidylcholine acyltransferase 2
	-10	219308_s_at	Hs.559718	<b>AK5</b>	adenylate kinase 5
	-15.2	218211_s_at	Hs.102406	<b>MLPH</b>	melanophilin
	-15.3	201042_at	Hs.517033	<b>TGM2</b>	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
	-17.2	213350_at	Hs.433529	<b>RPS11</b>	ribosomal protein S11
Nucleus	-2	223234_at	Hs.19400	<b>MAD2L2</b>	MAD2 mitotic arrest deficient-like 2 (yeast)
	-2	202463_s_at	Hs.178728	<b>MBD3 (includes EG</b>	methyl-CpG binding domain protein 3
	-2	221350_at	Hs.664500	<b>HOXC8</b>	homeobox C8
	-2	1554600_s_at	Hs.594444	<b>LMNA</b>	lamin A/C
	-2.1	201046_s_at	Hs.643267	<b>RAD23A</b>	RAD23 homolog A (S. cerevisiae)
	-2.1	222740_at	Hs.370834	<b>ATAD2</b>	ATPase family, AAA domain containing 2
	-2.1	214426_x_at	Hs.79018	<b>CHAF1A</b>	chromatin assembly factor 1, subunit A (p150)
	-2.1	201639_s_at	Hs.493202	<b>CPSF1</b>	cleavage and polyadenylation specific factor 1, 160kDa
	-2.1	213253_at	Hs.119023	<b>SMC2</b>	structural maintenance of chromosomes 2
	-2.1	41160_at	Hs.178728	<b>MBD3 (includes EG</b>	methyl-CpG binding domain protein 3
	-2.1	209053_s_at	Hs.113876	<b>WHSC1</b>	Wolf-Hirschhorn syndrome candidate 1
	-2.1	203823_at	Hs.494875	<b>RGS3</b>	regulator of G-protein signaling 3
	-2.1	213005_s_at	Hs.306764	<b>KANK1</b>	KN motif and ankyrin repeat domains 1
	-2.1	201930_at	Hs.444118	<b>MCM6</b>	minichromosome maintenance complex component 6
	-2.1	204162_at	Hs.414407	<b>NDC80</b>	NDC80 homolog, kinetochore complex component (S. cerevisiae)
	-2.1	208712_at	Hs.523852	<b>CCND1</b>	cyclin D1
	-2.1	43544_at	Hs.365207	<b>MED16</b>	mediator complex subunit 16
	-2.2	242138_at	Hs.407015	<b>DLX1</b>	distal-less homeobox 1
	-2.2	201664_at	Hs.58992	<b>SMC4</b>	structural maintenance of chromosomes 4
	-2.2	226695_at	Hs.283416	<b>PRRX1</b>	paired related homeobox 1
	-2.2	201853_s_at	Hs.153752	<b>CDC25B</b>	cell division cycle 25 homolog B (S. pombe)
	-2.2	203411_s_at	Hs.594444	<b>LMNA</b>	lamin A/C
	-2.2	221938_x_at	Hs.365207	<b>MED16</b>	mediator complex subunit 16
	-2.2	225532_at	Hs.11108	<b>CABLES1</b>	Cdk5 and Abl enzyme substrate 1
	-2.2	222524_s_at	Hs.125037	<b>ASB6</b>	ankyrin repeat and SOCS box-containing 6
	-2.2	204189_at	Hs.1497	<b>RARG</b>	retinoic acid receptor, gamma
	-2.2	212086_x_at	Hs.594444	<b>LMNA</b>	lamin A/C
	-2.2	209057_x_at	Hs.485471	<b>CDC5L</b>	CDC5 cell division cycle 5-like (S. pombe)
	-2.3	234863_x_at	Hs.520506	<b>FBXO5</b>	F-box protein 5
	-2.3	202426_s_at	Hs.590886	<b>RXRA</b>	retinoid X receptor, alpha
	-2.3	201906_s_at	Hs.475963	<b>CTD5PL</b>	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like
	-2.3	205956_x_at	Hs.383019	<b>PSMC3IP</b>	PSMC3 interacting protein
	-2.3	45714_at	Hs.423103	<b>HCFC1R1</b>	host cell factor C1 regulator 1 (XPO1 dependent)
	-2.3	209283_at	Hs.408767	<b>CRYAB</b>	crystallin, alpha B
	-2.3	228401_at	Hs.370834	<b>ATAD2</b>	ATPase family, AAA domain containing 2
	-2.3	210231_x_at	Hs.436687	<b>SET</b>	SET nuclear oncogene
	-2.3	210983_s_at	Hs.438720	<b>MCM7</b>	minichromosome maintenance complex component 7
	-2.3	208795_s_at	Hs.438720	<b>MCM7</b>	minichromosome maintenance complex component 7
	-2.3	213378_s_at	Hs.443960	<b>DDX11</b>	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, S. cerevisiae)
	-2.3	201555_at	Hs.179565	<b>MCM3</b>	minichromosome maintenance complex component 3
	-2.4	222440_s_at	Hs.160211	<b>THRAP3</b>	thyroid hormone receptor associated protein 3
	-2.4	228433_at	Hs.709432	<b>NFYA</b>	nuclear transcription factor Y, alpha
	-2.4	214986_x_at	Hs.438587	<b>PPIL2</b>	peptidylprolyl isomerase (cyclophilin)-like 2
	-2.4	221418_s_at	Hs.365207	<b>MED16</b>	mediator complex subunit 16
	-2.4	204454_at	Hs.45231	<b>LDOC1</b>	leucine zipper, down-regulated in cancer 1
	-2.4	222126_at	Hs.521083	<b>AGFG2</b>	ArfGAP with FG repeats 2

-2.4	204558_at	Hs.709252	<b>RAD54L</b>	RAD54-like ( <i>S. cerevisiae</i> )
-2.4	203046_s_at	Hs.118631	<b>TIMELESS</b>	timeless homolog ( <i>Drosophila</i> )
-2.4	201697_s_at	Hs.202672	<b>DNMT1</b>	DNA (cytosine-5-)-methyltransferase 1
-2.4	212691_at	Hs.308340	<b>NUP188</b>	nucleoporin 188kDa
-2.4	38158_at	Hs.153479	<b>ESPL1</b>	extra spindle pole bodies homolog 1 ( <i>S. cerevisiae</i> )
-2.4	213344_s_at	Hs.477879	<b>H2AFX</b>	H2A histone family, member X
-2.4	221545_x_at	Hs.365207	<b>MED16</b>	mediator complex subunit 16
-2.4	202155_s_at	Hs.654530	<b>NUP214</b>	nucleoporin 214kDa
-2.5	201368_at	Hs.503093	<b>ZFP36L2</b>	zinc finger protein 36, C3H type-like 2
-2.5	212784_at	Hs.388236	<b>CIC</b>	capicua homolog ( <i>Drosophila</i> )
-2.5	223159_s_at	Hs.197071	<b>NEK6</b>	NIMA (never in mitosis gene a)-related kinase 6
-2.5	203764_at	Hs.77695	<b>DLGAP5</b>	discs, large ( <i>Drosophila</i> ) homolog-associated protein 5
-2.5	209642_at	Hs.469649	<b>BUB1</b>	budding uninhibited by benzimidazoles 1 homolog (yeast)
-2.5	209120_at	Hs.701977	<b>NR2F2</b>	nuclear receptor subfamily 2, group F, member 2
-2.5	208079_s_at	Hs.250822	<b>AURKA</b>	aurora kinase A
-2.5	204126_s_at	Hs.474217	<b>CDC45L</b>	CDC45 cell division cycle 45-like ( <i>S. cerevisiae</i> )
-2.5	216952_s_at	Hs.538286	<b>LMNB2</b>	lamin B2
-2.5	232231_at	Hs.535845	<b>RUNX2</b>	runt-related transcription factor 2
-2.5	201830_s_at	Hs.25155	<b>NET1</b>	neuroepithelial cell transforming 1
-2.6	222136_x_at	Hs.534365	<b>ZNF43</b>	zinc finger protein 43
-2.6	201224_s_at	Hs.18192	<b>SRRM1</b>	serine/arginine repetitive matrix 1
-2.6	35671_at	Hs.371718	<b>GTF3C1</b>	general transcription factor IIIC, polypeptide 1, alpha 220kDa
-2.6	209773_s_at	Hs.226390	<b>RRM2</b>	ribonucleotide reductase M2 polypeptide
-2.7	218039_at	Hs.615092	<b>NUSAP1</b>	nucleolar and spindle associated protein 1
-2.7	212126_at	Hs.349283	<b>CBX5</b>	chromobox homolog 5 (HP1 alpha homolog, <i>Drosophila</i> )
-2.7	205345_at	Hs.591642	<b>BARD1</b>	BRCA1 associated RING domain 1
-2.7	226388_at	Hs.446354	<b>TCEA3</b>	transcription elongation factor A (SII), 3
-2.7	220744_s_at	Hs.655284	<b>IFT122</b>	intraflagellar transport 122 homolog ( <i>Chlamydomonas</i> )
-2.7	209680_s_at	Hs.436912	<b>KIFC1</b>	kinesin family member C1
-2.8	208711_s_at	Hs.523852	<b>CCND1</b>	cyclin D1
-2.8	229638_at	Hs.499205	<b>IRX3</b>	iroquois homeobox 3
-2.8	228347_at	Hs.714419	<b>SIX1</b>	SIX homeobox 1
-2.8	228208_x_at	Hs.709873	<b>ZNF354C</b>	zinc finger protein 354C
-2.8	224572_s_at	Hs.693837	<b>IRF2BP2</b>	interferon regulatory factor 2 binding protein 2
-2.8	203755_at	Hs.631699	<b>BUB1B</b>	budding uninhibited by benzimidazoles 1 homolog beta (yeast)
-2.8	218663_at	Hs.567567	<b>NCAPG (includes E</b>	non-SMC condensin I complex, subunit G
-2.8	208149_x_at	Hs.443960	<b>DDX11</b>	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, <i>S. cerevisiae</i> )
-2.8	204092_s_at	Hs.250822	<b>AURKA</b>	aurora kinase A
-2.8	201663_s_at	Hs.58992	<b>SMC4</b>	structural maintenance of chromosomes 4
-2.9	1555653_at	Hs.516539	<b>HNRNPA3</b>	heterogeneous nuclear ribonucleoprotein A3
-2.9	218565_at	Hs.224137	<b>C9ORF114</b>	chromosome 9 open reading frame 114
-2.9	222036_s_at	Hs.460184	<b>MCM4</b>	minichromosome maintenance complex component 4
-2.9	201904_s_at	Hs.475963	<b>CTDSPL</b>	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like
-2.9	203422_at	Hs.279413	<b>POLD1</b>	polymerase (DNA directed), delta 1, catalytic subunit 125kDa
-2.9	212949_at	Hs.308045	<b>NCAPH</b>	non-SMC condensin I complex, subunit H
-3	201850_at	Hs.516155	<b>CAPG</b>	capping protein (actin filament), gelsolin-like
-3	205240_at	Hs.584901	<b>GPSM2</b>	G-protein signaling modulator 2 (AGS3-like, <i>C. elegans</i> )
-3	202726_at	Hs.1770	<b>LIG1</b>	ligase I, DNA, ATP-dependent
-3	218662_s_at	Hs.567567	<b>NCAPG (includes E</b>	non-SMC condensin I complex, subunit G
-3.1	206699_x_at	Hs.79564	<b>NPAS1</b>	neuronal PAS domain protein 1
-3.1	204159_at	Hs.525324	<b>CDKN2C</b>	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)
-3.1	209408_at	Hs.714765	<b>KIF2C</b>	kinesin family member 2C
-3.2	202320_at	Hs.371718	<b>GTF3C1</b>	general transcription factor IIIC, polypeptide 1, alpha 220kDa
-3.2	202183_s_at	Hs.613351	<b>KIF22</b>	kinesin family member 22
-3.2	204817_at	Hs.153479	<b>ESPL1</b>	extra spindle pole bodies homolog 1 ( <i>S. cerevisiae</i> )
-3.2	202870_s_at	Hs.524947	<b>CDC20</b>	cell division cycle 20 homolog ( <i>S. cerevisiae</i> )
-3.3	205733_at	Hs.169348	<b>BLM</b>	Bloom syndrome
-3.3	205167_s_at	Hs.656	<b>CDC25C</b>	cell division cycle 25 homolog C ( <i>S. pombe</i> )
-3.3	204826_at	Hs.1973	<b>CCNF</b>	cyclin F
-3.3	203276_at	Hs.89497	<b>LMNB1</b>	lamin B1
-3.4	202107_s_at	Hs.477481	<b>MCM2</b>	minichromosome maintenance complex component 2
-3.4	209199_s_at	Hs.653394	<b>MEF2C</b>	myocyte enhancer factor 2C
-3.4	212803_at	Hs.159223	<b>NAB2</b>	NGFI-A binding protein 2 (EGR1 binding protein 2)

-3.4	209692_at	Hs.472877	<b>EYA2</b>	eyes absent homolog 2 (Drosophila)
-3.4	218115_at	Hs.26516	<b>ASF1B</b>	ASF1 anti-silencing function 1 homolog B (S. cerevisiae)
-3.4	205436_s_at	Hs.477879	<b>H2AFX</b>	H2A histone family, member X
-3.5	218009_s_at	Hs.567385	<b>PRC1</b>	protein regulator of cytokinesis 1
-3.5	230708_at	Hs.524348	<b>PRICKLE1</b>	prickle homolog 1 (Drosophila)
-3.5	213844_at	Hs.655218	<b>HOXA5</b>	homeobox A5
-3.5	216237_s_at	Hs.517582	<b>MCM5</b>	minichromosome maintenance complex component 5
-3.5	204531_s_at	Hs.194143	<b>BRCA1</b>	breast cancer 1, early onset
-3.6	230165_at	Hs.655182	<b>SGOL2</b>	shugoshin-like 2 (S. pombe)
-3.6	229487_at	Hs.573143	<b>EBF1</b>	early B-cell factor 1
-3.6	218530_at	Hs.95231	<b>FHOD1</b>	formin homology 2 domain containing 1
-3.7	227242_s_at	Hs.591374	<b>EBF3</b>	early B-cell factor 3
-3.8	204444_at	Hs.8878	<b>KIF11</b>	kinesin family member 11
-3.8	226065_at	Hs.524348	<b>PRICKLE1</b>	prickle homolog 1 (Drosophila)
-3.8	211519_s_at	Hs.714765	<b>KIF2C</b>	kinesin family member 2C
-3.8	209200_at	Hs.653394	<b>MEF2C</b>	myocyte enhancer factor 2C
-3.9	226661_at	Hs.33366	<b>CDCA2</b>	cell division cycle associated 2
-3.9	208025_s_at	Hs.505924	<b>HMGA2</b>	high mobility group AT-hook 2
-4	210052_s_at	Hs.244580	<b>TPX2</b>	TPX2, microtubule-associated, homolog (Xenopus laevis)
-4	201291_s_at	Hs.156346	<b>TOP2A</b>	topoisomerase (DNA) II alpha 170kDa
-4	201774_s_at	Hs.5719	<b>NCAPD2</b>	non-SMC condensin I complex, subunit D2
-4.1	206074_s_at	Hs.703764	<b>HMGA1</b>	high mobility group AT-hook 1
-4.1	201531_at	Hs.534052	<b>ZFP36</b>	zinc finger protein 36, C3H type, homolog (mouse)
-4.1	218355_at	Hs.648326	<b>KIF4A</b>	kinesin family member 4A
-4.1	235425_at	Hs.655182	<b>SGOL2</b>	shugoshin-like 2 (S. pombe)
-4.2	207069_s_at	Hs.153863	<b>SMAD6</b>	SMAD family member 6
-4.2	209119_x_at	Hs.701977	<b>NR2F2</b>	nuclear receptor subfamily 2, group F, member 2
-4.3	213979_s_at	Hs.208597	<b>CTBP1</b>	C-terminal binding protein 1
-4.3	219650_at	Hs.47558	<b>ERCC6L</b>	excision repair cross-complementing rodent repair deficiency, complementation group 6-like
-4.3	218585_s_at	Hs.656473	<b>DTL</b>	denticleless homolog (Drosophila)
-4.3	201292_at	Hs.156346	<b>TOP2A</b>	topoisomerase (DNA) II alpha 170kDa
-4.4	225655_at	Hs.108106	<b>UHRF1</b>	ubiquitin-like with PHD and ring finger domains 1
-4.4	216975_x_at	Hs.79564	<b>NPAS1</b>	neuronal PAS domain protein 1
-4.4	219306_at	Hs.658939	<b>KIF15</b>	kinesin family member 15
-4.5	221922_at	Hs.584901	<b>GPSM2</b>	G-protein signaling modulator 2 (AGS3-like, C. elegans)
-4.5	201755_at	Hs.517582	<b>MCM5</b>	minichromosome maintenance complex component 5
-4.6	213951_s_at	Hs.383019	<b>PSMC3IP</b>	PSMC3 interacting protein
-4.6	211792_s_at	Hs.525324	<b>CDKN2C</b>	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)
-4.7	219918_s_at	Hs.121028	<b>ASPM</b>	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)
-4.7	219729_at	Hs.660115	<b>PRRX2</b>	paired related homeobox 2
-4.9	227243_s_at	Hs.591374	<b>EBF3</b>	early B-cell factor 3
-4.9	207147_at	Hs.419	<b>DLX2</b>	distal-less homeobox 2
-5.1	202580_x_at	Hs.239	<b>FOXM1</b>	forkhead box M1
-5.1	227478_at	Hs.435458	<b>SETBP1</b>	SET binding protein 1
-5.2	221520_s_at	Hs.524571	<b>CDCA8</b>	cell division cycle associated 8
-5.2	209172_s_at	Hs.497741	<b>CENPF</b>	centromere protein F, 350/400ka (mitosin)
-5.3	207828_s_at	Hs.497741	<b>CENPF</b>	centromere protein F, 350/400ka (mitosin)
-5.5	212023_s_at	Hs.80976	<b>MKI67</b>	antigen identified by monoclonal antibody Ki-67
-5.6	220085_at	Hs.655830	<b>HELLS</b>	helicase, lymphoid-specific
-5.6	222027_at	Hs.213061	<b>NUCKS1</b>	nuclear casein kinase and cyclin-dependent kinase substrate 1
-5.6	212044_s_at	Hs.523463	<b>RPL27A (includes E</b>	ribosomal protein L27a
-5.6	228323_at	Hs.181855	<b>CASC5</b>	cancer susceptibility candidate 5
-6.3	1553015_a_at	Hs.31442	<b>RECQL4</b>	RecQ protein-like 4
-6.4	227404_s_at	Hs.708393	<b>EGR1</b>	early growth response 1
-6.6	221911_at	Hs.22634	<b>ETV1</b>	ets variant 1
-6.8	209121_x_at	Hs.701977	<b>NR2F2</b>	nuclear receptor subfamily 2, group F, member 2
-6.9	227719_at	Hs.123119	<b>SMAD9</b>	SMAD family member 9
-7.1	215073_s_at	Hs.701977	<b>NR2F2</b>	nuclear receptor subfamily 2, group F, member 2
-7.5	201369_s_at	Hs.503093	<b>ZFP36L2</b>	zinc finger protein 36, C3H type-like 2
-7.8	201694_s_at	Hs.326035	<b>EGR1</b>	early growth response 1
-8.1	208937_s_at	Hs.504609	<b>ID1</b>	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
-8.6	206481_s_at	Hs.714330	<b>LDB2</b>	LIM domain binding 2
-8.6	212021_s_at	Hs.80976	<b>MKI67</b>	antigen identified by monoclonal antibody Ki-67

	-9.2	206115_at	Hs.534313	<b>EGR3</b>	early growth response 3
	-11	229092_at	Hs.701977	<b>NR2F2</b>	nuclear receptor subfamily 2, group F, member 2
	-11.1	234464_s_at	Hs.514330	<b>EME1</b>	essential meiotic endonuclease 1 homolog 1 (S. pombe)
	-20.6	228399_at	Hs.123933	<b>OSR1</b>	odd-skipped related 1 (Drosophila)
Unknown	-1.9	238462_at	Hs.444075	<b>UBASH3B</b>	ubiquitin associated and SH3 domain containing, B
	-2	221863_at	Hs.101891	<b>MIER2</b>	mesoderm induction early response 1, family member 2
	-2	228857_at	Hs.654655	<b>GNL1</b>	guanine nucleotide binding protein-like 1
	-2	212098_at	Hs.4988	<b>LOC151162</b>	hypothetical LOC151162
	-2	227490_at	Hs.208550	<b>WDFY2</b>	WD repeat and FYVE domain containing 2
	-2	223482_at	Hs.488835	<b>TMEM120A</b>	transmembrane protein 120A
	-2.1	36030_at	Hs.15243	<b>IFFO1</b>	intermediate filament family orphan 1
	-2.1	63825_at	Hs.122337	<b>ABHD2</b>	abhydrolase domain containing 2
	-2.1	221335_x_at	Hs.466875	<b>C19ORF61</b>	chromosome 19 open reading frame 61
	-2.1	227188_at	Hs.208358	<b>C21ORF63</b>	chromosome 21 open reading frame 63
	-2.1	219063_at	Hs.445952	<b>C1ORF35</b>	chromosome 1 open reading frame 35
	-2.1	225202_at	Hs.445030	<b>RHOBTB3</b>	Rho-related BTB domain containing 3
	-2.2	212906_at	Hs.144725	<b>GRAMD1B</b>	GRAM domain containing 1B
	-2.2	223276_at	Hs.29444	<b>MST150</b>	MSTP150
	-2.2	203289_s_at	Hs.19699	<b>C16ORF35</b>	chromosome 16 open reading frame 35
	-2.2	214273_x_at	Hs.19699	<b>C16ORF35</b>	chromosome 16 open reading frame 35
	-2.2	205631_at	Hs.232532	<b>KIAA0586</b>	KIAA0586
	-2.2	213234_at	Hs.132660	<b>KIAA1467</b>	KIAA1467
	-2.2	231835_at	Hs.462033	<b>C1ORF93</b>	chromosome 1 open reading frame 93
	-2.2	226416_at	Hs.20000	<b>ERI1</b>	exoribonuclease 1
	-2.2	226118_at	Hs.712603	<b>CENPO</b>	centromere protein O
	-2.2	223348_x_at	Hs.515016	<b>MUM1</b>	melanoma associated antigen (mutated) 1
	-2.3	232235_at	Hs.124673	<b>DSEL</b>	dermatan sulfate epimerase-like
	-2.3	230972_at	Hs.432945	<b>ANKRD9</b>	ankyrin repeat domain 9
	-2.3	206180_x_at	Hs.592032	<b>ZNF747</b>	zinc finger protein 747
	-2.3	223019_at	Hs.522401	<b>FAM129B</b>	family with sequence similarity 129, member B
	-2.3	212830_at	Hs.494977	<b>MEGF9</b>	multiple EGF-like-domains 9
	-2.3	228654_at	Hs.612782	<b>SPIN4</b>	spindlin family, member 4
	-2.3	221290_s_at	Hs.515016	<b>MUM1</b>	melanoma associated antigen (mutated) 1
	-2.3	231411_at	Hs.507798	<b>LHFP</b>	lipoma HMGIC fusion partner
	-2.4	226559_at	Hs.529857	<b>IER5L</b>	immediate early response 5-like
	-2.4	212775_at	Hs.526594	<b>OBSL1</b>	obscurin-like 1
	-2.4	214672_at	Hs.709609	<b>TTL5</b>	tubulin tyrosine ligase-like family, member 5
	-2.4	202975_s_at	Hs.445030	<b>RHOBTB3</b>	Rho-related BTB domain containing 3
	-2.4	36888_at	Hs.7426	<b>KIAA0841</b>	KIAA0841
	-2.4	202976_s_at	Hs.445030	<b>RHOBTB3</b>	Rho-related BTB domain containing 3
	-2.4	226456_at	Hs.347524	<b>C16ORF75</b>	chromosome 16 open reading frame 75
	-2.5	232825_s_at	Hs.124673	<b>DSEL</b>	dermatan sulfate epimerase-like
	-2.5	218843_at	Hs.27836	<b>FNDC4</b>	fibronectin type III domain containing 4
	-2.5	235029_at	Hs.656996	<b>GINS4</b>	GINS complex subunit 4 (Sld5 homolog)
	-2.5	224932_at	Hs.66915	<b>CHCHD10</b>	coiled-coil-helix-coiled-coil-helix domain containing 10
	-2.5	226485_at	Hs.593950	<b>FLJ20674</b>	hypothetical protein FLJ20674
	-2.6	218717_s_at	Hs.374191	<b>LEPREL1</b>	leprecan-like 1
	-2.6	234994_at	Hs.591341	<b>TMEM200A</b>	transmembrane protein 200A
	-2.6	213826_s_at	---	<b>LOC100133109</b>	similar to histone
	-2.7	227165_at	Hs.88523	<b>C13ORF3</b>	chromosome 13 open reading frame 3
	-2.7	213422_s_at	Hs.558570	<b>MXRA8</b>	matrix-remodelling associated 8
	-2.7	224886_at	Hs.533771	<b>JMJD8</b>	jumonji domain containing 8
	-2.7	220233_at	Hs.531770	<b>FBXO17</b>	F-box protein 17
	-2.7	227444_at	Hs.709762	<b>ARMCX4</b>	armadillo repeat containing, X-linked 4
	-2.7	221591_s_at	Hs.592116	<b>FAM64A</b>	family with sequence similarity 64, member A
	-2.7	225377_at	Hs.370555	<b>C9ORF86</b>	chromosome 9 open reading frame 86
	-2.7	224771_at	Hs.585374	<b>NAV1</b>	neuron navigator 1
	-2.7	225533_at	Hs.460124	<b>PHF19</b>	PHD finger protein 19
	-2.8	204094_s_at	Hs.644065	<b>TSC22D2</b>	TSC22 domain family, member 2
	-2.8	228836_at	Hs.118918	<b>SLC25A35</b>	solute carrier family 25, member 35
	-2.8	214772_at	Hs.502266	<b>C11ORF41</b>	chromosome 11 open reading frame 41
	-2.9	201813_s_at	Hs.475629	<b>TBC1D5</b>	TBC1 domain family, member 5
	-2.9	225337_at	Hs.122337	<b>ABHD2</b>	abhydrolase domain containing 2

-2.9	227479_at	Hs.656215	KIAA1244	KIAA1244
-3	202214_s_at	Hs.102914	CUL4B	cullin 4B
-3	203255_at	Hs.352677	FBXO11	F-box protein 11
-3	201896_s_at	Hs.405925	PSRC1	proline/serine-rich coiled-coil 1
-3.1	210102_at	Hs.152944	VWA5A	von Willebrand factor A domain containing 5A
-3.1	238756_at	Hs.20575	GAS2L3	growth arrest-specific 2 like 3
-3.3	226287_at	Hs.143733	CCDC34	coiled-coil domain containing 34
-3.3	212736_at	Hs.460095	C16ORF45	chromosome 16 open reading frame 45
-3.3	225687_at	Hs.472716	FAM83D	family with sequence similarity 83, member D
-3.3	235709_at	Hs.20575	GAS2L3	growth arrest-specific 2 like 3
-3.3	222039_at	Hs.135094	KIF18B (includes E	kinesin family member 18B
-3.4	217734_s_at	Hs.654815	WDR6 (includes EC	WD repeat domain 6
-3.4	236834_at	Hs.302287	SCFD2	sec1 family domain containing 2
-3.5	222258_s_at	Hs.516777	SH3BP4	SH3-domain binding protein 4
-3.5	226923_at	Hs.302287	SCFD2	sec1 family domain containing 2
-3.6	222173_s_at	Hs.371016	TBC1D2	TBC1 domain family, member 2
-3.6	231118_at	Hs.710624	ANKRD35	ankyrin repeat domain 35
-3.6	212069_s_at	Hs.495349	BAT2L	HLA-B associated transcript 2-like
-3.8	230206_at	Hs.195403	DOCK5	dedicator of cytokinesis 5
-3.8	216048_s_at	Hs.445030	RHOBTB3	Rho-related BTB domain containing 3
-3.8	229059_at	Hs.99052	C9ORF109	chromosome 9 open reading frame 109
-3.8	235486_at	Hs.502266	C11ORF41	chromosome 11 open reading frame 41
-3.9	241910_x_at	Hs.579108	ARL17P1	ADP-ribosylation factor-like 17 pseudogene 1
-3.9	213273_at	Hs.213087	ODZ4 (includes EG	odz, odd Oz/ten-m homolog 4 (Drosophila)
-4	213236_at	Hs.193133	SASH1	SAM and SH3 domain containing 1
-4.1	227058_at	Hs.616329	C13ORF33	chromosome 13 open reading frame 33
-4.1	221815_at	Hs.122337	ABHD2	abhydrolase domain containing 2
-4.5	228171_s_at	Hs.188781	PLEKHG4	pleckstrin homology domain containing, family G (with RhoGef domain) member 4
-4.6	218888_s_at	Hs.444046	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2
-4.7	1560851_at	Hs.351856	C10ORF136	chromosome 10 open reading frame 136
-4.8	232693_s_at	Hs.695998	FBXO16	F-box protein 16
-4.9	219921_s_at	Hs.195403	DOCK5	dedicator of cytokinesis 5
-5	230263_s_at	Hs.195403	DOCK5	dedicator of cytokinesis 5
-5.1	213007_at	Hs.513126	FANCI	Fanconi anemia, complementation group I
-5.1	40472_at	Hs.352614	LPCAT4	lysophosphatidylcholine acyltransferase 4
-5.7	1555673_at	Hs.589507	KRTAP2-1	keratin associated protein 2-1
-5.8	209789_at	Hs.551213	CORO2B	coronin, actin binding protein, 2B
-6	229420_at	Hs.632573	HCG 16001	ribosomal protein L23a pseudogene 42
-6	233533_at	Hs.534499	KRTAP1-5	keratin associated protein 1-5
-6.1	213008_at	Hs.513126	FANCI	Fanconi anemia, complementation group I
-6.2	225767_at	Hs.370699	LOC284801	hypothetical protein LOC284801
-6.8	222774_s_at	Hs.444046	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2
-8	212793_at	Hs.712560	DAAM2	dishevelled associated activator of morphogenesis 2
-8.1	219278_at	Hs.194694	MAP3K6	mitogen-activated protein kinase kinase kinase 6
-8.3	219054_at	Hs.13528	C5ORF23	chromosome 5 open reading frame 23
-8.7	205376_at	Hs.658245	INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa
-9	226552_at	Hs.529857	IER5L	immediate early response 5-like
-9.1	1557180_at	Hs.172982	C11ORF87	chromosome 11 open reading frame 87
-10.1	226014_at	---	LOC100133577	hypothetical protein LOC100133577
-10.3	213875_x_at	Hs.519930	C6ORF62	chromosome 6 open reading frame 62
-13.5	224346_at	---	C2ORF56	chromosome 2 open reading frame 56
-17.2	1557181_s_at	Hs.172982	C11ORF87	chromosome 11 open reading frame 87
-19.1	229538_s_at	Hs.591495	IQGAP3	IQ motif containing GTPase activating protein 3
-27.6	236532_at	Hs.172982	C11ORF87	chromosome 11 open reading frame 87
-51.9	230799_at	---	LOC100134259	similar to hCG1987718
-2	235147_at	Hs.657250		
-2.1	225906_at	Hs.594823		
-2.1	227545_at	Hs.54089		
-2.1	229733_s_at	Hs.713089		
-2.2	1562836_at	Hs.408461		
-2.2	212812_at	Hs.288232		
-2.2	235363_at	Hs.28360		
-2.2	229465_s_at	Hs.644384		

-2.2	236632_at	Hs.632595
-2.3	1567913_at	Hs.621508
-2.3	230655_at	Hs.15422
-2.3	230740_at	Hs.648929
-2.4	229544_at	Hs.167087 /// Hs.621424
-2.4	228309_at	---
-2.4	235609_at	Hs.598759
-2.4	226107_at	Hs.239666 /// Hs.601347
-2.4	231431_s_at	Hs.530791
-2.5	224284_x_at	---
-2.5	224375_at	---
-2.5	213705_at	Hs.592466
-2.5	227432_s_at	Hs.705877
-2.6	234225_at	---
-2.6	1558250_s_at	Hs.23554
-2.6	216246_at	---
-2.7	208120_x_at	---
-2.8	1563431_x_at	Hs.713288
-2.8	233088_at	Hs.666722
-2.9	213048_s_at	---
-2.9	228273_at	Hs.633096
-3	228120_at	Hs.656677
-3	228797_at	Hs.655270
-3.1	241617_x_at	---
-3.2	211454_x_at	---
-3.3	212952_at	Hs.593218
-3.4	239474_at	Hs.664818
-3.5	228159_at	Hs.46506
-3.5	214395_x_at	Hs.707453
-4.7	229490_s_at	Hs.133294
-4.8	221995_s_at	---
-5.5	216554_s_at	---
-5.8	213813_x_at	---
-6	230345_at	Hs.170843
-6.3	239202_at	Hs.702338
-6.8	222968_at	---
-6.9	231387_at	Hs.712966
-7.4	214803_at	Hs.124776
-8	242890_at	Hs.658935
-8.4	235046_at	Hs.176376
-13.2	230750_at	Hs.594199
-26.3	229004_at	Hs.534221



**Table S5. Common genes of the FL-MSC and TNF/LT signatures**

Red lines indicates genes that are overexpressed in FL-MSC and HD-MSC + TNF/LT and green line indicates genes that are underexpressed in FL-MSC and HD-MSC + TNF/LT  
 The fold changes indicate either a ratio of mean expression (HD-MSC + TNF/LT versus HD-MSC) or a ratio of median expression (FL-MSC versus HD-MSC)

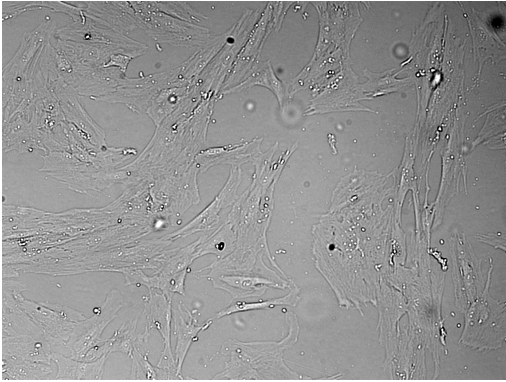
ProbeSet ID	Gene Symbol	Gene Title	UniGene ID	Fold change HD-MSC+TNF/LT versus HD-MSC	Fold change FL-MSC versus HD-MSC
216598_s_at	CCL2	chemokine (C-C motif) ligand 2	Hs.303649	54.7	2.2
226181_at	TUBE1	tubulin, epsilon 1	Hs.34851	29.4	2.7
236313_at	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	Hs.72901	27.2	4.7
204493_at	BID	BH3 interacting domain death agonist	Hs.591054	20.1	2.5
213142_x_at	PION	pigeon homolog (Drosophila)	Hs.186649	19.8	2.1
226533_at	HINT3	histidine triad nucleotide binding protein 3	Hs.72325	18.5	2.6
202660_at	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	Hs.512235	15.2	2.1
209277_at	TFPI2	tissue factor pathway inhibitor 2	Hs.438231	10.8	3.7
227020_at	YPEL2	yippee-like 2 (Drosophila)	Hs.463613	9.3	2.2
208868_s_at	GABARAPL1	GABA(A) receptor-associated protein like 1	Hs.524250	9.2	2.3
1553106_at	C5orf24	chromosome 5 open reading frame 24	Hs.406549	8.1	2.9
224848_at	CDK6	cyclin-dependent kinase 6	Hs.119882	7.7	2
205174_s_at	QPCT	glutamyl-peptide cyclotransferase	Hs.79033	6.4	3
211596_s_at	LRIG1	leucine-rich repeats and immunoglobulin-like domains 1	Hs.518055	6.1	2.1
205139_s_at	UST	uronyl-2-sulfotransferase	Hs.657370	5.9	3
224847_at	CDK6	cyclin-dependent kinase 6	Hs.119882	5.7	2.1
40148_at	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2	Hs.479602	5.3	2.2
232080_at	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	Hs.654742	5.2	3
228772_at	HNMT	histamine N-methyltransferase	Hs.42151	5	3.1
222636_at	MED28	mediator complex subunit 28	Hs.434075	4.8	2
209278_s_at	TFPI2	tissue factor pathway inhibitor 2	Hs.438231	4.7	2.6
243042_at	FAM73A	family with sequence similarity 73, member A	Hs.632419	4.6	2.5
231899_at	ZC3H12C	zinc finger CCCH-type containing 12C	Hs.376289	4.2	2.3
1569129_s_at	C3orf38	chromosome 3 open reading frame 38	Hs.518099	3.9	2.7
223263_s_at	FGFR1OP2	FGFR1 oncogene partner 2	Hs.591162	3.9	2.1
227247_at	PLEKHA8	Pleckstrin homology domain containing, family A (phosphoinositide binding specif	Hs.233495	3.8	2.1
220329_s_at	RMND1	required for meiotic nuclear division 1 homolog (S. cerevisiae)	Hs.486835	3.8	2.3
204396_s_at	GRK5	G protein-coupled receptor kinase 5	Hs.524625	3.8	2.3
1554557_at	ATP11B	ATPase, class VI, type 11B	Hs.478429	3.7	3.3
216250_s_at	LPXN	leupaxin	Hs.125474	3.7	2.8
222846_at	RAB8B	RAB8B, member RAS oncogene family	Hs.389733	3.6	2.5

34408_at	RTN2	reticulon 2	Hs.47517	3.5	3.1
232060_at	ROR1	receptor tyrosine kinase-like orphan receptor 1	Hs.654491	3.5	2.4
216593_s_at	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C	Hs.188456	3.5	2.4
225922_at	FNIP2	folliculin interacting protein 2	Hs.709500	3.4	2.6
228239_at	FAM165B	family with sequence similarity 165, member B	Hs.656195	3.3	2.3
229317_at	KPNA5	karyopherin alpha 5 (importin alpha 6)	Hs.182971	3.3	2.1
224341_x_at	TLR4	toll-like receptor 4	Hs.174312	3.2	3.1
33322_i_at	SFN	stratifin	Hs.523718	3.2	2.3
203347_s_at	MTF2	metal response element binding transcription factor 2	Hs.31016	3	2.5
52285_f_at	CEP76	centrosomal protein 76kDa	Hs.236940	3	2
226520_at	---	---	Hs.658311	2.9	2.1
235103_at	MAN2A1	mannosidase, alpha, class 2A, member 1	Hs.432822	2.8	2.2
213750_at	RSL1D1	ribosomal L1 domain containing 1	Hs.401842	2.8	2.2
220241_at	TMCO3	transmembrane and coiled-coil domains 3	Hs.317593	2.7	2.1
1558236_at	---	---	---	2.7	3.8
220253_s_at	LRP12	low density lipoprotein-related protein 12	Hs.654804	2.6	2.2
215707_s_at	PRNP	prion protein	Hs.472010	2.5	2.1
225956_at	C5orf41	chromosome 5 open reading frame 41	Hs.484195	2.5	2
223178_s_at	NT5DC1	5'-nucleotidase domain containing 1	Hs.520341	2.5	2.3
1558254_s_at	SRPK2	SFRS protein kinase 2	Hs.285197	2.3	2.7
218748_s_at	EXOC5	exocyst complex component 5	Hs.655158	2.3	2.3
241933_at	QRSL1	Glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1	Hs.406917	2.2	2.1
238860_at	C6orf130	chromosome 6 open reading frame 130	Hs.227457	2.1	2.2
221350_at	HOXC8	homeobox C8	Hs.664500	-2	-2.4
221660_at	MYLC2PL	myosin light chain 2, precursor lymphocyte-specific	Hs.247831	-2.1	-2.1
1554428_s_at	NLGN2	neuroligin 2	Hs.26229	-2.1	-2.4
209057_x_at	CDC5L	CDC5 cell division cycle 5-like (S. pombe)	Hs.485471	-2.3	-2.1
1567913_at	---	---	Hs.621508	-2.3	-2.9
228312_at	PI16	peptidase inhibitor 16	Hs.25391	-2.3	-2.3
224375_at	---	---	---	-2.5	-2.1
234225_at	---	---	---	-2.6	-4.2
216246_at	---	---	---	-2.6	-2.8
201205_at	---	---	---	-2.8	-2.9
228208_x_at	ZNF354C	zinc finger protein 354C	Hs.709873	-2.8	-3.3
1563431_x_at	---	---	Hs.713288	-2.8	-3.6
218565_at	C9orf114	chromosome 9 open reading frame 114	Hs.224137	-2.9	-2.7
213048_s_at	---	---	---	-2.9	-2.6
213002_at	MARCKS	myristoylated alanine-rich protein kinase C substrate	---	-3.1	-2.9
211454_x_at	FKSG49	FKSG49	---	-3.2	-2.4
212952_at	---	---	Hs.593218	-3.3	-3
219138_at	RPL14	ribosomal protein L14	Hs.446522	-3.3	-7.7
214001_x_at	---	---	Hs.406620	-3.5	-3.7
214395_x_at	---	---	Hs.707453	-3.5	-2.6

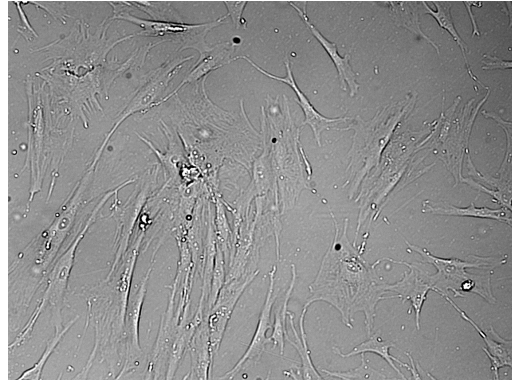
212953_x_at	CALR	calreticulin	Hs.515162	-3.7	-3.2
209972_s_at	JTV1	JTV1 gene	Hs.301613	-3.9	-3.9
228204_at	PSMB4	Proteasome (prosome. macropain) subunit. beta type. 4	Hs.89545	-4	-4.6
201774_s_at	NCAPD2	non-SMC condensin I complex. subunit D2	Hs.5719	-4	-2.8
213979_s_at	CTBP1	C-terminal binding protein 1	Hs.208597	-4.4	-2.6
202648_at	---	---	---	-4.8	-5.6
201171_at	ATP6V0E1	ATPase. H+ transporting. lysosomal 9kDa. V0 subunit e1	Hs.484188	-4.8	-5.9
221995_s_at	---	---	---	-4.8	-3.7
214315_x_at	CALR	calreticulin	Hs.515162	-5.3	-6.7
216554_s_at	---	---	---	-5.6	-5.3
222027_at	NUCKS1	Nuclear casein kinase and cyclin-dependent kinase substrate 1	Hs.213061	-5.6	-10
212044_s_at	RPL27A	Ribosomal protein L27a	Hs.523463	-5.6	-5.6
213813_x_at	---	---	---	-5.9	-2.4
213736_at	COX5B	Cytochrome c oxidase subunit Vb	Hs.1342	-5.9	-2.4
229420_at	---	---	Hs.632573	-5.9	-5
202028_s_at	RPL38	ribosomal protein L38	Hs.380953	-6.3	-6.3
221943_x_at	RPL38	Ribosomal protein L38	Hs.380953	-6.3	-5.3
222968_at	---	---	---	-6.7	-10
231387_at	---	---	Hs.712966	-6.7	-5.9
213642_at	---	---	---	-7.7	-8.3
214041_x_at	RPL37A	Ribosomal protein L37a	Hs.433701	-7.7	-4.4
213875_x_at	C6orf62	chromosome 6 open reading frame 62	Hs.519930	-10	-10
234464_s_at	EME1	essential meiotic endonuclease 1 homolog 1 (S. pombe)	Hs.514330	-11.1	-4.4
224321_at	TMEFF2	transmembrane protein with EGF-like and two follistatin-like domains 2	Hs.144513	-12.5	-8.3
230750_at	---	---	Hs.594199	-12.5	-2.6
224346_at	---	---	---	-14.3	-12.5
1556316_s_at	LOC284889 /// MIF	hypothetical protein LOC284889 /// macrophage migration inhibitory factor (glyco	Hs.707281	-16.7	-33.3
213350_at	RPS11	Ribosomal protein S11	Hs.433529	-16.7	-20
229538_s_at	IQGAP3	IQ motif containing GTPase activating protein 3	Hs.591495	-20	-4.6

a.

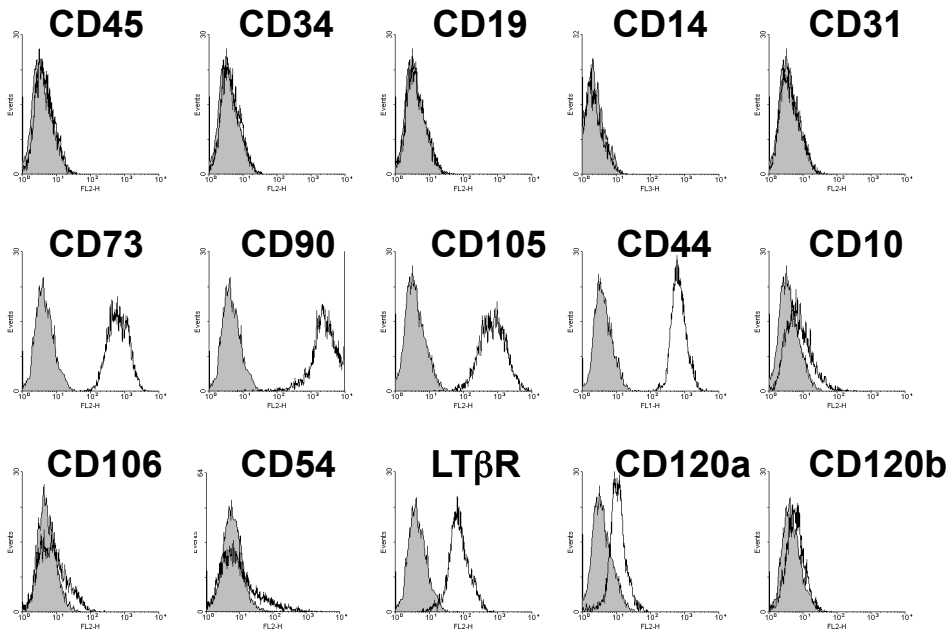
**HD-MSC**



**FL-MSC**



b.



**Figure S1. MSC morphology and phenotype.**

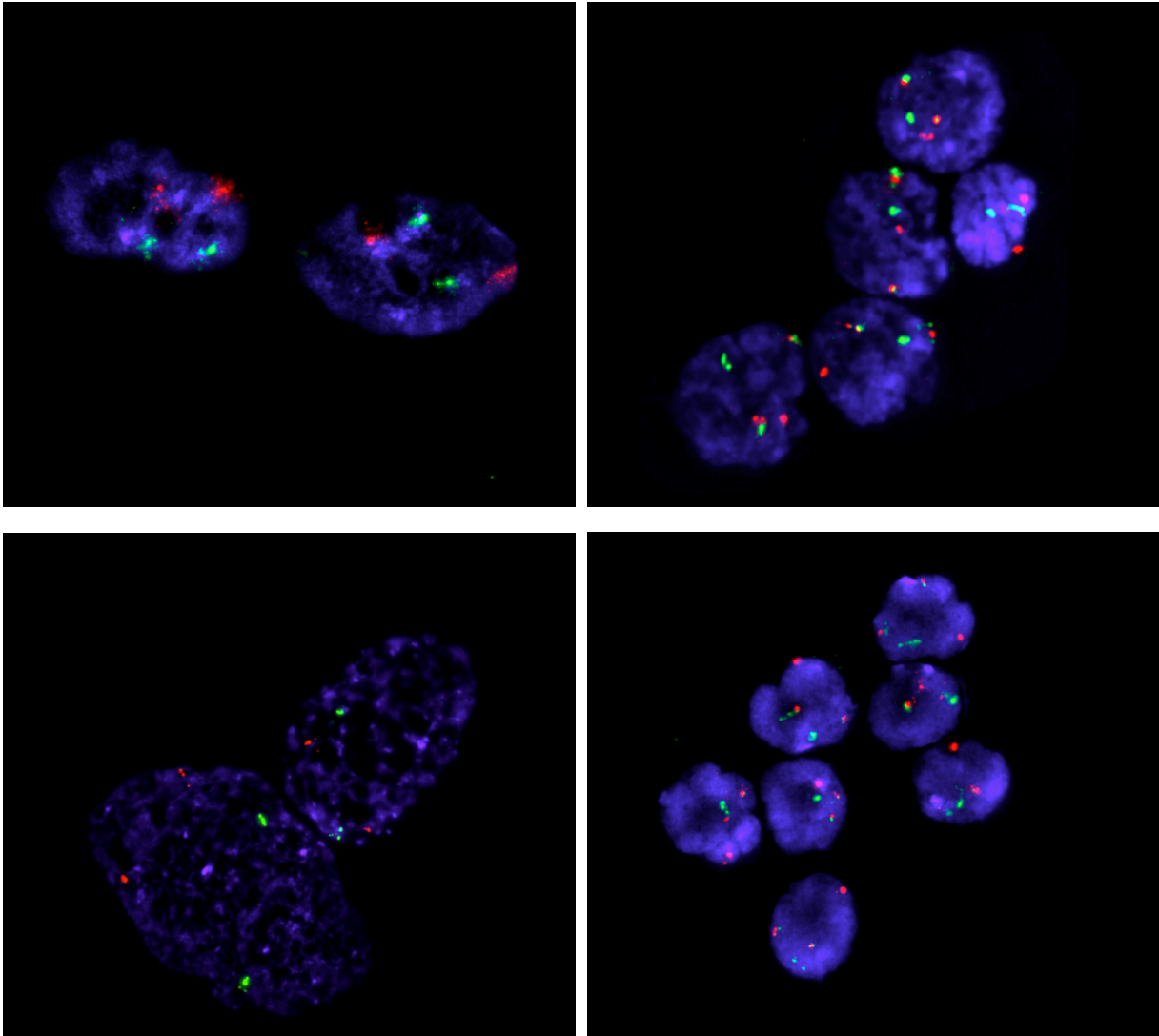
HD-MSC (n=6) and FL-MSC (n=10) were analyzed at the end of P1.

(a) Phase contrast microscopy of representative HD-MSC (*Left panel*) and FL-MSC (*Right panel*) cultures. Magnification x 10 is shown.

(b) Filled histograms represent isotype-matched controls, and full lines the staining with specific antibodies. Shown is one representative phenotype of FL-MSC.

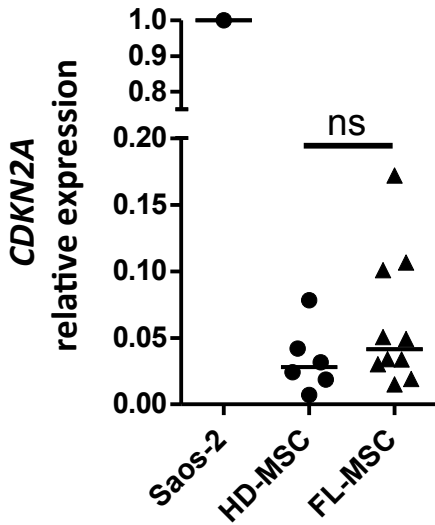
## FL-MSC

## Malignant B cells



### Figure S2. FISH analysis of FL-MSC

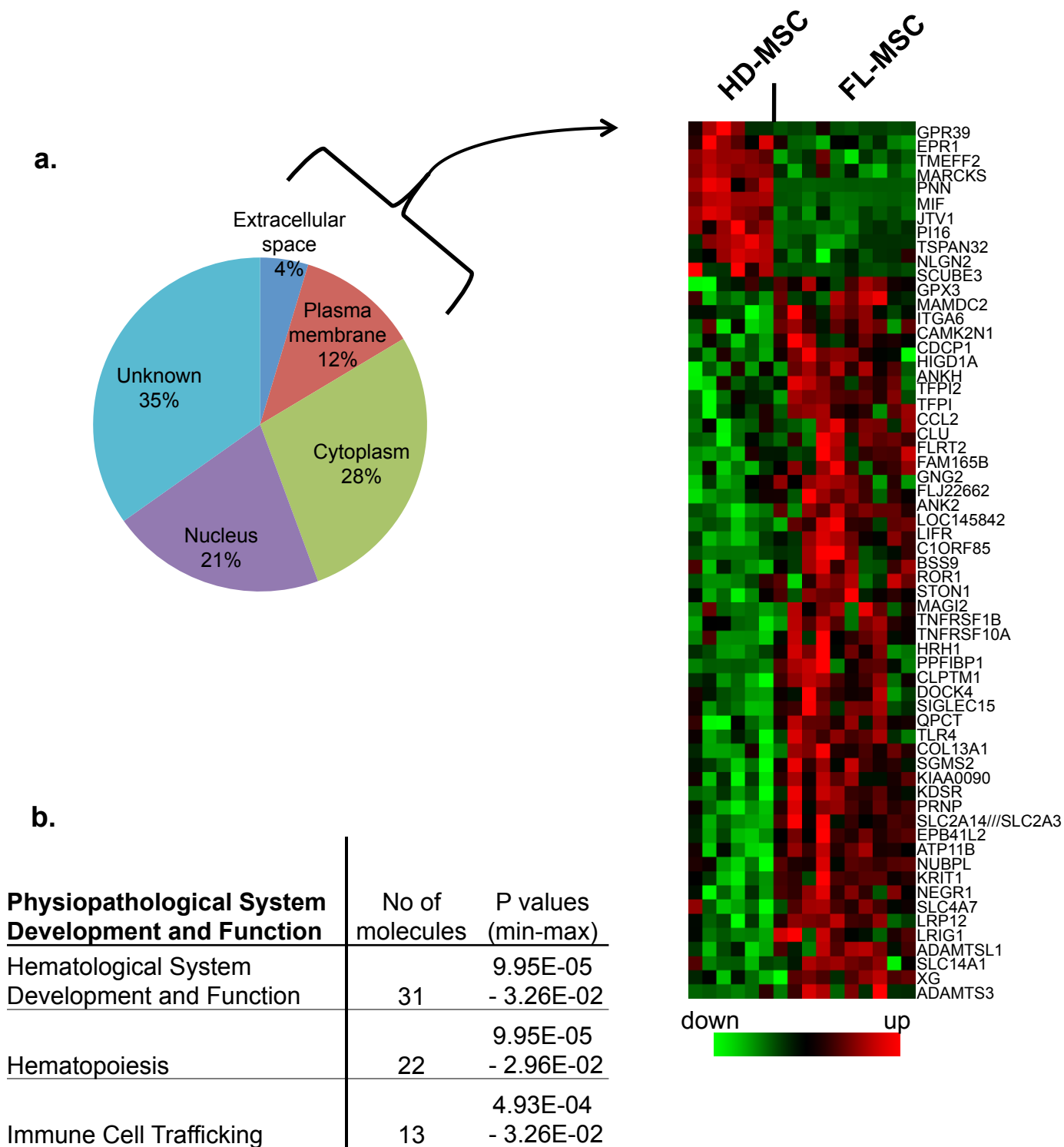
Interphase fluorescence in situ hybridization (FISH) was performed according to standard procedures using LSI IGH/BCL2 dual color, dual fusion translocation probe (Vysis-Abbott, Rungis, France) on P1 FL-MSC (*Left panels*) and on CD19<sup>pos</sup> B cells purified from autologous invaded lymph nodes (*Right panels*). After nuclei counterstaining by DAPI (Vector, Burlingame, USA), the cells were viewed using a fluorescent Axioplan II microscope (Zeiss, Le Pecq, France). In a normal nucleus the expected pattern is the two orange, two green signal pattern. In a nucleus harboring a t(14;18), the most common pattern is one orange signal, one green signal, and two orange/green (yellow) fusion signals. FISH patterns were determined by analyzing 100 non-overlapping nuclei. Two representative pairs of FL-MSC/malignant B cells are shown.



**Figure S3. Expression of CDKN2A by MSC**

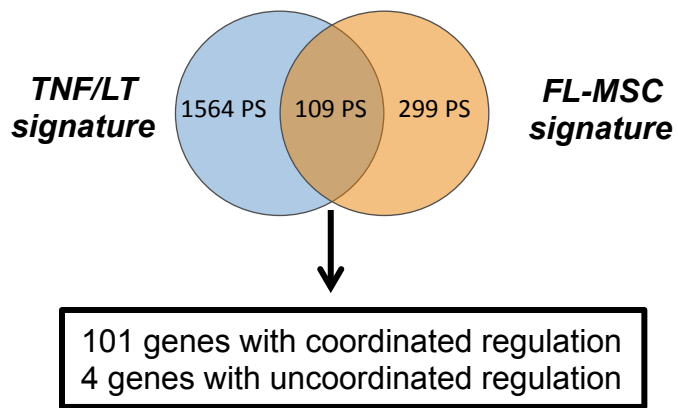
RNA was extracted from HD-MSC (n=6) and FL-MSC (n=10) at the end of P1 and CDKN2A expression was determined by RQ-PCR experiments as described<sup>1</sup>. Each sample was normalized to 18S, and Saos-2, a human osteosarcoma cell line expressing a high level of CDKN2A due to a homozygous Rb deletion, was used as a standard to calculate the relative CDKN2A expression in MSC.

1. Shibata KR, Aoyama T, Shima Y, et al. Expression of the p16INK4A gene is associated closely with senescence of human mesenchymal stem cells and is potentially silenced by DNA methylation during in vitro expansion. *Stem Cells*. 2007;25:2371-2382.



**Figure S4. Subcellular repartition and physiopathological functions of proteins encoded by genes of the FL-MSC signature.**

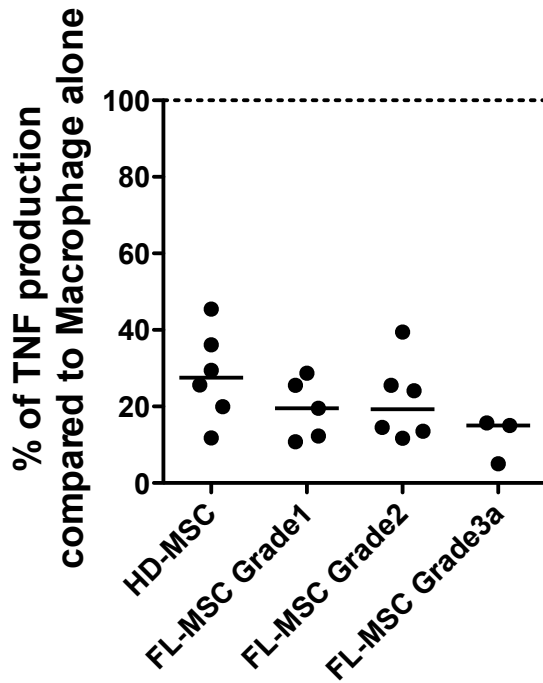
The 408-PS list defining the FL-MSC signature was analyzed by Ingenuity Pathway Analysis software. (a) Subcellular localization of the gene products. Genes coding for membrane or extracellular proteins were subjected to hierarchical clustering using Cluster and TreeView softwares. The relative level of gene expression is depicted according to the shown color scale. (b) Top-3 physiopathological functions highlighted by Ingenuity Pathway.



**Figure S5. Identification of the genes found in both FL-MSC signature and TNF/LT signature.**

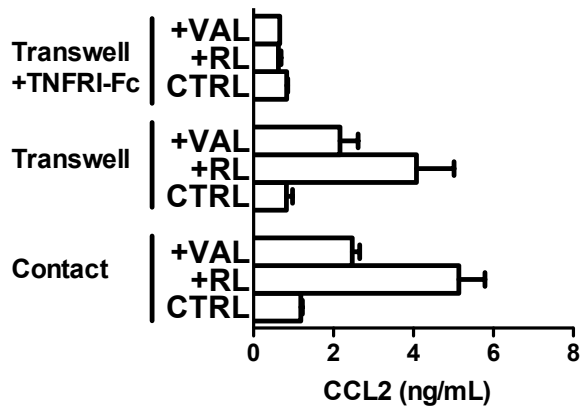
A Venn diagram revealed the 109 probesets which overlapped between TNF/LT signature and FL-MSC signature including 101 genes which are coordinately up or downregulated in the two signatures





**Figure S6. Inhibition of LPS-induced TNF production in macrophages by MSC**

Monocytes were cultured during 7 days with or without HD-MSC, or FL-MSC from grade 1, grade 2, or grade 3a FL patients before stimulation or not by LPS during 18 hours. TNF concentration was then measured in cell supernatants by ELISA. Results are expressed as the percentage of TNF production by LPS-stimulated macrophages alone, arbitrary assigned to 100%.



**Figure S7. Role of TNF in the malignant B cell-driven CCL2 production in HD-MSC**

CCL2 was quantified by ELISA in the supernatants of HD-MSC cocultured or not (CTRL) with RL or VAL for 3 days. When indicated, B-cell lines were separated from HD-MSC by Transwell chambers with 0.4- $\mu$ m pore filters in the presence or not of recombinant TNFRI-Fc chimera (R&D Systems, 200 ng/mL).