

Effective treatment of psoriasis with etanercept is linked to suppression of IL-17 signaling, not “immediate-response” TNF genes.

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Abbreviations

SMM	Supplemental Materials and Methods
CC	Consensus Clustering
ES	Enrichment Score
NES	Normalized Enrichment Score
CDF	Cumulative Distribution Function

Supplemental Materials and Methods (SMM)

The clinical trial was conducted according to the principles expressed in the *Declaration of Helsinki*. The clinical protocol was approved by the Rockefeller University Institutional Review Board, and informed consent was obtained from all patients.

Section 1. Immunohistochemistry and Immunofluorescence

Section 1.1 Immunohistochemistry.

Frozen skin sections were fixed with acetone and blocked in 10% normal goat serum (Vector Laboratories) for 30 min. Primary antibodies BDCA-1/CD1c (Miltenyi, clone AD5-8E7, 1:100) and Langerin (Immunotech, clone DCGM4, 1:100) were incubated overnight, biotin-labeled horse anti-mouse antibody (Vector Laboratories) was used to detect the primary antibody. The staining signal was amplified with avidin-biotin complex (Vector Laboratories) and developed using chromogen 3-amino-9-ethylcarbazole (Sigma-Aldrich). The number of positive cells per mm was counted manually using computer-assisted image analysis (NIH Image 6.1; <http://rsb.info.nih.gov/nih-image>). Some of the CD1c cell counts have been published before, but are analyzed differently here, and reported to confirm gene expression with protein staining ¹.

Section 1.2 Immunofluorescence.

Primary antibody CD11c (BD Pharmingen, clone B-ly6, dil. 1:100) was incubated overnight at 4°C, followed by the second antibodies. HBEGF (R&D Systems, 406316, 1:10) was stained overnight at 4°C and amplified with goat anti-mouse IgG1 conjugated to Alexa 568; PLAUR (GeneTex, clone 2F11, 1:50) was also stained overnight at 4°C and amplified

with goat anti-mouse IgG1 conjugated to Alexa 568 (n=3 for each pair). Images were acquired using appropriate filters of a Zeiss Axioplan 2I microscope with Plan Apochromat 20 X 0.7 numerical aperture lens and a Hagamatsu orca ER-cooled charge-coupled device camera, controlled by METAVUE software (Universal Imaging). Dermal collagen fibers gave green autofluorescence, white line denotes dermo-epidermal junction.

Section 2. Statistical analysis

Methods used for statistical analysis of microarray data are summarized in OR Table 1.

Section 2.1 Quality control, preprocessing and filtering.

GeneChip CEL files were scrutinized for spatial artifacts using Harshlight package (<http://asterion.rockefeller.edu/Harshlight/index2.html>)². Classical microarray quality control report was obtained using *affyQCReport* package from Bioconductor. Intensity values (CEL files) were pre-processed to obtain expression values using GCRMA algorithm. Expression values were filtered to eliminate probe sets with low variation or intensity. Probe sets with standard deviation greater than 0.15, and expression values greater than 4 in at least 5 samples, were kept for further analysis. *Affymetrix* control probes were also eliminated. A total of 12,864 probe sets passed these filters.

Section 2.2 Differential expression criteria.

A mixed-effect linear model was used to model gene expression in order to account for the time-course design of the clinical trial. A model with Time, a between factor Group (Responders/ Non-Responders), interaction TimexGroup and Patient as random effect was considered.

Model fitting and hypothesis testing were conducted using the *limma* package from Bioconductor³. *Limma* uses an empirical bayes method to moderate the standard errors of the estimated comparisons. The empirical Bayes approach is equivalent to shrinkage of the estimated sample variances towards a pooled estimate, resulting in far more stable inference and improved power when the number of arrays is small. The moderated t-statistic is shown to follow a t-distribution with augmented degrees of freedom. The moderated t inferential approach extends to accommodate tests of composite null hypotheses through the use of moderated F-statistics.

From the proposed model, the time-profile for each gene (for Responders and Non-responders) can be derived and defined as “gene response-profile”. All hypotheses tested were derived from this model. For each hypothesis, the p-value of the corresponding statistic (moderated F or moderated t) was adjusted for multiple hypothesis testing, controlling the false discovery rate (FDR) using the Benjamini-Hochberg procedure. Additionally, to determine if individual comparisons were significant, FDR adjustments were made across time.

To determine disease related genes, a moderated t-test was used between non-lesional (NL) and lesional (LS) measures. To identify genes that varied across time for responders (defined as “etanercept-modulated genes”), a moderated F test was used to determine whether any of the expression values across time (weeks 1,2,4, and 12) differed from lesional baseline. To determine genes with different time profiles among responders vs. non-responders (Interaction Term TimexGroup), we used an E test to identify significant interaction terms.

Section 2.3 Consensus clustering.

To find distinct profiles among etanercept-modulated genes, as well as between responders and non-responders, we performed hierarchical average linkage clustering with

distance measure equal to 1-Pearson's correlation coefficient. The optimal number of discovered clusters (K) was assessed using Consensus Clustering (CC) algorithm available in GenePattern software ⁴. In order to assess the stability of the discovered clusters, perturbations of the original data was simulated by resampling techniques. The clustering algorithm of choice was applied to each of the perturbed data sets, and the agreement (or consensus) among the multiple runs was assessed and summarized in a consensus matrix. The selection of an optimal cluster number was done using the consensus matrix and the area under the Cumulative Distribution Function (CDF) of the consensus matrix. The ideal partition had a clear consensus matrix, and further increase in the number of clusters did not lead to an increase in area under the CDF.

Given a set of items to be clustered (items can be either genes or chips/ experiments), Consensus Clustering (CC) represents the consensus across multiple runs of a clustering algorithm and assessment of the stability of the discovered K clusters. To this end, perturbations of the original data are simulated by resampling techniques. The clustering algorithm of choice is applied to each of the perturbed data sets, and the agreement, or *consensus*, among the multiple runs is assessed and summarized in a *consensus matrix*. Each matrix entry is indexed by an item pair, and it measures the proportion of times the pair's items are clustered together across the resampling iterations (ideally, always, or never). A distinct consensus matrix is generated for each of the number of clusters considered (e.g., if $K_{max}=5$, consensus matrices corresponding to $K=2, 3, 4$, and 5 clusters will be generated). Visual inspection of the consensus matrices, and of the corresponding summary statistics can be used to determine the best number of clusters.

The selection of the optimal number of clustering is done using the consensus matrix and

the statistics associated with the cumulative distribution function (CDF) of the consensus matrix. As K increases the area under the CDF markedly increase as long as K is less than or equal to K true. The ideal partition will have a clear consensus matrix and any further increase in the number of clusters do not lead to an increase of the area under the CDF. In this case we used Hierarchical clustering with the Pearson distance measured as $1 - \text{corr}(x,y)$.

Section 2.4 Cluster analysis of etanercept-modulated genes.

The heatmap for the etanercept-modulated genes (2004 genes) clearly shows two large clusters. The existence of two major clusters was confirmed by CC using only 10 simulations. Because of the computational burden of the consensus clustering with such a large number of genes, we applied CC to both clusters separately to assess the stability of the clustering structure inside each of them using a larger number of simulations (1000).

The CC statistics for the Down set, had a peak at K=3 but the proportion of increase in Delta area was still high for K=4, and the latter presented a clear pattern of the Consensus Clustering Matrix. For the Up set, there were two peaks for 3 and 5 clusters, but the consensus matrix for K=3 showed a clear matrix pattern. We chose K=4 for Down list and K=3 for cluster analysis of Up List. OR Figure 2 demonstrates the consensus matrices and statistics for consensus clustering of down-modulated and up-modulated genes.

The relative velocity of gene down-modulation is visualized in each cluster graph by the dotted red line, marking the time taken to achieve 1/2 maximal gene expression ($t_{1/2}$). “Immediate” genes achieved $t_{1/2}$ between weeks 0 and 1 of etanercept treatment, “early” $t_{1/2}$ fell between weeks 1 and 2, “mid” was between weeks 2 and 4, and “late” was between weeks 4 and 12.

Section 2.5 Cluster clustering of genes with a different profile between responders and non-responders

When applying CC to the set of genes that significantly change between responder vs. non-responder data, the area under the CDF function suggested that the number of clusters was 6 or 7. By inspection of the Consensus matrix, a 7 cluster structure clearly emerged, as shown in OR Figure 5.

Section 2.6 GSEA analysis

As illustrated in OR Figure 1, below outlines our approach to define the response profile of the cytokines pathways during etanercept treatment. The first step was to generate cytokine pathways, and secondly, the etanercept response profile for each gene using a mixed-effect model with Time (discrete) and a random effect for each patient.

We needed a method to evaluate the response profile of the cytokines pathways during etanercept treatment. One straightforward approach is to determine if each of the early, middle and late gene lists are enriched for any of the cytokines pathways by using overlap statistics such as the cumulative hypergeometric distribution. This approach has been broadly criticized in favor of approaches that capture coordinated changes in expression in functional sets like Gene Set Enrichment Analysis (GSEA). GSEA-like approaches in our experimental setting considered all of the gene profiles in the experiment, not only those that were significant, and assessed the significance of each pathway profile by a permutation approach that preserved gene-gene correlations, providing a more accurate null model.

GSEA method uses a general framework where any collection of gene sets (e.g., KEGG or Biocarta Pathways) can be mined for correlations with a specific phenotype, which is defined by the biological question being posed (i.e. Disease/Healthy in the two group scenario). For each gene set in a given collection, enrichment for a phenotype is assessed by:

1. Ranking the available probesets with respect to the phenotype (i.e. fold-change between two groups)
2. Determining the position of each member of the gene set in the ranked list
3. Using the Kolmogorov-Smirnov Statistic (KS) to measure the proximity of the gene set to the top of the list, called Enrichment Score (ES) (higher score indicates that genes in the gene set rank highly in the ranked phenotype list) – this can be normalized for the number of genes in the gene set (NES)
4. Calculating the p-value of the observed ES using the 1000 permutation test.

In the simple case of differences between paired samples (ie week 12-baseline), the phenotype is defined by the ranked list of fold changes. To address our specific and more complex design, this needed to be modified. The phenotype of interest in this experiment is how individual genes on a chip change over time with therapy, and return to baseline “non-lesional” levels. We generated a “slope” value for every gene in the microarray chip, as they change over time with etanercept treatment.

For every gene the time profile was modeled with a linear model with time as a dependent variable and random intercept for each patient. The coefficient of Time (or time slope) was used as a surrogate marker of response of each gene. Genes were ranked by the time slope, so that genes rapidly down-regulated with time are at the end of the list. To

determine if any gene set(s) had coordinate profiles greater than expected by chance alone, the enrichment score was calculated, and the associated p-value was estimated via simulation. A negative score indicates that genes in the pathway have higher proximity with the lower end of the list, where the slope is more negative, which indicates strong down-regulation with time.

As OR Table 6 shows, the four pathways being queried were enriched for genes that were down-regulated over time with etanercept treatment. All enrichment scores had highly significant p-values, and FDR <0.003. OR Table 6 shows that genes belonging to IL-17 and TNF pathways are most highly enriched for genes (i.e. have the highest ES) that were strongly down-regulated over time with etanercept treatment.

Another method confirming this finding is the Leading Edge subset for each pathway (OR Figure 7) (See ⁵ for more details). The leading edge subset (LES) of a gene set is the subset of members that contribute most to the ES. For a negative ES, it is the set of members that appear subsequent to the peak score. Genes that are in the LES for the IL-17 pathway are precisely those that intercept with TNF.

Section 2.7. GSEA analysis of genes that were different in responders versus non-responders.

The differences in profile between Responders and Non-responders can be quantified using GSEA but ranking each pathway by the difference in slope between responders and non-responders following the same logic that for the analysis using responders only

The methodology explained before can be easily extended to test if the profile of those pathways significantly differs between responder and non-responders. For every gene the time profile was modeled with a linear model with time and response as a dependent variable and random intercept for each patient. Genes were ranked by the difference between the time slope for responders and non-responders, so that genes rapidly down-regulated with time in responders and not so in not responders are at the end of the list. To determine if any gene set(s) had differences in Responders vs Non-Responders profiles greater than expected by chance alone, the enrichment score was calculated, and the associated p-value was estimated via simulation.

As OR Table 5 shows, the four pathways being queried were enriched for genes that were more strongly down-regulated in etanercept-Responders patients in comparison with non-responders. All enrichment scores had highly significant p-values, and null FDR. OR Table 5 shows that genes belonging to IL-17 and TNF pathways are most highly enriched for genes (i.e. have the highest ES) indicating that the differences in down-regulation after etanercept treatment between responders and non-responders are higher in TNF and IL17 genes than in the IL17 specific and TNF specific genes (OR Figure 8).

References

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Online Repository Figures and Tables

OR Figure 1. Schemata for overlay of *in vitro* keratinocyte pathway data with etanercept clinical trial data from biopsy specimens

OR Figure 2. Consensus matrices and statistics for consensus clustering for down- and up-regulated genes in responders.

OR Figure 3. “Immediate” down-regulated genes in responders only (Cluster 1, Figure 1) contained many myeloid activation genes. (a) Published myeloid cell (Novartis normal tissue compendium) genes are highly represented in the “immediate” cluster. **(b, c)** Two color immunofluorescence of myeloid DCs (CD11c) and two in cluster 1 genes, HBEGF and PLAUR. Both are expressed in CD11c⁺ dermal cells (yellow cells in lesional skin) and decreased with treatment.

OR Figure 4. “Early” down-regulated genes in responders only (Cluster 2, Figure 1) contained many myeloid activation genes. Published myeloid cell genes (Novartis normal tissue compendium) are highly represented in the “immediate” cluster.

OR Figure 5. Consensus matrices and statistics for consensus clustering for genes differentially regulated in responders versus non-responders.

OR Figure 6. Proposed model of TNF effects in psoriasis pathogenesis, and inhibition with etanercept in responders. (a) TNF has both direct and down-stream or indirect effects in psoriasis pathogenesis. In responders, it is likely that both direct and indirect genes are modulated, as demonstrated by the “domino effect” of genomic resolution. **(b)** In non-responders, there must be TNF-independent pathways to drive Th17 pathway activation. For example, (1) other cytokines; (2) CD40L⁺ T cells may activate dendritic cells (DCs); or (3) there may be Th17 activation by additional cytokines such as IL-6, TGFβ or IL-15.

OR Figure 7. GSEA enrichment plots for responders.

OR Figure 8. GSEA enrichment plots for responder versus non-responder data.

OR Table 1. Statistical methods used for analysis.

OR Table 2. Genes down-modulated during etanercept treatment. Fold change (FCH) > 2 for any time-point, FDR<0.05.

OR Table 3. Genes up-regulated during etanercept treatment. Fold change (FCH) > 2 for any time-point, FDR<0.05.

OR Table 4. Genes showing differences between responders and non-responders during etanercept treatment. Fold change (FCH) > 2 for any time-point, FDR<0.05.

OR Table 5. GSEA table responders versus non-responders.

OR Table 6. GSEA table for responders.

Online Repository Table 1. Statistical methods used for analysis.

RESULT	METHOD	Section in SMM
Etanercept-modulated genes	Mixed-effect linear model, moderated F statistic	SMM2.1 SMM2.2
<ul style="list-style-type: none"> • Genes down-and up-regulated by etanercept in responders • Genes differentially regulated by etanercept in responders and non-responders 	Hierarchical average linkage clustering with distance measure equal to 1-Pearsons's correlation coefficient. Optimal number of discovered clusters was assessed using Consensus Clustering algorithm available in GenePattern software	SMM2.3 SMM2.4 SMM2.5
Time-response profile of cytokine keratinocyte "pathways"	Define IL-17, TNF and IFN γ keratinocyte "pathways", respectively ^a . A linear model was used to define the response profile of these pathways during etanercept treatment. GSEA ^b was used to query which pathways were down-regulated with etanercept in responders.	SMM2.6
Comparing time-response profile responders and non-responders	GSEA analysis to compare response profiles of the keratinocyte pathways in responders and non-responders.	SMM2.7

^a Nograles K *et al.* Br J Dermatol 2008. 159(5)1092.

^b Gene Set Enrichment Analysis

GENES DOWN-MODULATED BY ETANERCEPT IN RESPONDERS

R_1vs0	Log2 Fold change between Wk1 vs Wk0 in Responders
R_2vs0	Log2 Fold change between Wk2 vs Wk0 in Responders
R_4vs0	Log2 Fold change between Wk4 vs Wk0 in Responders
R_12vs0	Log2 Fold change between Wk12 vs Wk0 in Responders
R_NL	Mean expression value estimate (Log2) for Responders in NL skin
R_0	Mean expression value estimate (Log2) for Responders in LS skin
R_1	Mean expression value estimate (Log2) for Responders in LS at Wk 1
R_2	Mean expression value estimate (Log2) for Responders in LS at Wk 2
R_4	Mean expression value estimate (Log2) for Responders in LS at Wk 4
R_12	Mean expression value estimate (Log2) for Responders in LS at Wk 12
Cluster	Final cluster membership

Probe	Symbol	Description	GenBank	Gene	U
210873_x_at	APOBEC3A	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A	U03891	200315	H
203968_s_at	CDC6	cell division cycle 6 homolog (<i>S. cerevisiae</i>)	NM_001254	990	H
205282_at	LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	NM_004631	7804	H
209237_s_at	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2	AF164142	9962	H
218990_s_at	SPRR3	small proline-rich protein 3	NM_005416	6707	H
205393_s_at	CHEK1	CHK1 checkpoint homolog (<i>S. pombe</i>)	NM_001274	1111	H
209891_at	SPC25	SPC25, NDC80 kinetochore complex component, homolog (<i>S. cerevisiae</i>)	AF225416	57405	H
39402_at	IL1B	interleukin 1, beta	M15330	3553	H

204420_at	FOSL1	FOS-like antigen 1	BG251266	8061	H
205067_at	IL1B	interleukin 1, beta	NM_000576	3553	H
211924_s_at	PLAUR	plasminogen activator, urokinase receptor	AY029180	5329	H
220745_at	IL19	interleukin 19	NM_013371	29949	H
210845_s_at	PLAUR	plasminogen activator, urokinase receptor	U08839	5329	H
211572_s_at	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2	AF092511	9962	H
205119_s_at	FPR1	formyl peptide receptor 1	NM_002029	2357	H
208433_s_at	LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	NM_017522	7804	H
202768_	FOSB	FBJ murine osteosarcoma viral oncogene homolog B	NM_006	2354	H

at			732		
38037_at	HBEGF	heparin-binding EGF-like growth factor	M60278	1839	H
205114_s_at	CCL3	chemokine (C-C motif) ligand 3	NM_002983	6348	H
220655_at	TNIP3	TNFAIP3 interacting protein 3	NM_024873	79931	H
219181_at	LIPG	lipase, endothelial	NM_006033	9388	H
204103_at	CCL4	chemokine (C-C motif) ligand 4	NM_002984	6351	H
204750_s_at	DSC2	desmocollin 2	BF196457	1824	H
205681_at	BCL2A1	BCL2-related protein A1	NM_004049	597	H
211506_s_at	IL8	interleukin 8	AF043337	3576	H H
208079_s_at	AURKA	aurora kinase A	NM_003158	6790	H
218662_s_at	NCAPG	non-SMC condensin I complex, subunit G	NM_022346	64151	H
202859_x_at	IL8	interleukin 8	NM_000584	3576	H H

204092_s_at	AURKA	aurora kinase A	NM_003600	6790	H
201538_s_at	DUSP3	dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)	AL048503	1845	H
217173_s_at	LDLR	low density lipoprotein receptor (familial hypercholesterolemia)	S70123	3949	H
209464_at	AURKB	aurora kinase B	AB011446	9212	H
218663_at	NCAPG	non-SMC condensin I complex, subunit G	NM_022346	64151	H
201348_at	GPX3	glutathione peroxidase 3 (plasma)	NM_002084	2878	H
218355_at	KIF4A	kinesin family member 4A	AF179308	24137	H
209774_x_at	CXCL2	chemokine (C-X-C motif) ligand 2	M57731	2920	H
221009_s_at	ANGPTL4	angiopoietin-like 4	NM_016109	51129	H
204033_at	TRIP13	thyroid hormone receptor interactor 13	NM_004237	9319	H
207828_s_at	CENPF	centromere protein F, 350/400ka (mitosin)	NM_005196	1063	H
205190_at	PLS1	plastin 1 (I isoform)	NM_002670	5357	H

219580_s_at	TMC5	transmembrane channel-like 5	NM_024780	79838	H
204470_at	CXCL1	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	NM_001511	2919	H
201884_at	CEACAM5	carcinoembryonic antigen-related cell adhesion molecule 5	NM_004363	1048	H
203649_s_at	PLA2G2A	phospholipase A2, group IIA (platelets, synovial fluid)	NM_000300	5320	H
207165_at	HMMR	hyaluronan-mediated motility receptor (RHAMM)	NM_012485	3161	H
205242_at	CXCL13	chemokine (C-X-C motif) ligand 13 (B-cell chemoattractant)	NM_006419	10563	H
209546_s_at	APOL1	apolipoprotein L, 1	AF323540	8542	H
218755_at	KIF20A	kinesin family member 20A	NM_005733	10112	H
204034_at	ETHE1	ethylmalonic encephalopathy 1	NM_014297	23474	H
205633_s_at	ALAS1	aminolevulinate, delta-, synthase 1	NM_000688	211	H

203418_at	CCNA2	cyclin A2	NM_001237	890	H
204408_at	APEX2	APEX nuclease (apurinic/aprimidinic endonuclease) 2	NM_014481	27301	H
219918_s_at	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	NM_018123	259266	H
221521_s_at	GIN52	GIN5 complex subunit 2 (Psf2 homolog)	BC003186	51659	H
205349_at	GNA15	guanine nucleotide binding protein (G protein), alpha 15 (Gq class)	NM_002068	2769	H
205774_at	F12	coagulation factor XII (Hageman factor)	NM_000505	2161	H
201714_at	TUBG1	tubulin, gamma 1	NM_001070	7283	H
205476_at	CCL20	chemokine (C-C motif) ligand 20	NM_004591	6364	H
202338_at	TK1	thymidine kinase 1, soluble	NM_003258	7083	H
219956_at	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)	NM_007210	11226	H
209372_x_at	TUBB2A	tubulin, beta 2A	BF971587	7280	H
213793_s_at	HOMER1	homer homolog 1 (Drosophila)	BE550452	9456	H
207455_at	P2RY1	purinergic receptor P2Y, G-protein coupled, 1	NM_002563	5028	H
209260_at	SFN	stratifin	BC000329	2810	H

201291_s_at	TOP2A	topoisomerase (DNA) II alpha 170kDa	AU159942	7153	H
205436_s_at	H2AFX	H2A histone family, member X	NM_002105	3014	H
203747_at	AQP3	aquaporin 3 (Gill blood group)	NM_004925	360	H
204768_s_at	FEN1	flap structure-specific endonuclease 1	NM_004111	2237	H
203974_at	HDHD1A	haloacid dehalogenase-like hydrolase domain containing 1A	NM_012080	8226	H
1431_at	CYP2E1	cytochrome P450, family 2, subfamily E, polypeptide 1	J02843	1571	H
201201_at	CSTB	cystatin B (stefin B)	NM_000100	1476	H
213421_x_at	PRSS3	protease, serine, 3 (mesotrypsin)	AW007273	5646	H
215395_x_at	TRY6	trypsinogen C	U66061	154754	H
204715_at	PANX1	pannexin 1	NM_015368	24145	H
208002_s_at	ACOT7	acyl-CoA thioesterase 7	NM_007274	11332	H
216470_x_at	TRY6	trypsinogen C	AF009664	154754	H
219555_s_at	CENPN	centromere protein N	NM_018455	55839	H
203573_s_at	RABGGT A	Rab geranylgeranyltransferase, alpha subunit	NM_004581	5875	H

218392_x_at	SFXN1	sideroflexin 1	NM_022754	94081	H
208937_s_at	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	D13889	3397	H
213680_at	KRT6C	keratin 6C	AI831452	286887	H
202833_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 1	NM_000295	5265	H
203021_at	SLPI	secretory leukocyte peptidase inhibitor	NM_003064	6590	H
214710_s_at	CCNB1	cyclin B1	BE407516	891	H
202705_at	CCNB2	cyclin B2	NM_004701	9133	H
202712_s_at	CKMT1B	creatine kinase, mitochondrial 1B	NM_020990	1159	H
205847_at	PRSS22	protease, serine, 22	NM_022119	64063	H
213523_at	CCNE1	cyclin E1	AI671049	898	H
215808_at	KLK10	kallikrein-related peptidase 10	AK026045	5655	H
202671_s_at	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase	NM_003681	8566	H
214205_x_at	GLRX3	glutaredoxin 3	AK022131	10539	H
207463_x_at	PRSS3	protease, serine, 3 (mesotrypsin)	NM_002771	5646	H
205829_at	HSD17B1	hydroxysteroid (17-beta) dehydrogenase 1	NM_000413	3292	H
208813_at	GOT1	glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)	BC000498	2805	H

210048_at	NAPG	N-ethylmaleimide-sensitive factor attachment protein, gamma	BC001889	8774	H
212656_at	TSMF	Ts translation elongation factor, mitochondrial	AF110399	10102	H
203554_x_at	PTTG1	pituitary tumor-transforming 1	NM_004219	9232	H
218960_at	TMPRSS4	transmembrane protease, serine 4	NM_016425	56649	H
205595_at	DSG3	desmoglein 3 (pemphigus vulgaris antigen)	NM_001944	1830	H
210119_at	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15	U73191	3772	H
209408_at	KIF2C	kinesin family member 2C	U63743	11004	H
216244_at	IL1RN	interleukin 1 receptor antagonist	BE563442	3557	H
202067_s_at	LDLR	low density lipoprotein receptor (familial hypercholesterolemia)	AI861942	3949	H

203821_at	HBEGF	heparin-binding EGF-like growth factor	NM_001945	1839	H
218585_s_at	DTL	denticleless homolog (Drosophila)	AK001261	51514	H
203023_at	HSPC111	hypothetical protein HSPC111	NM_016391	51491	H
204908_s_at	BCL3	B-cell CLL/lymphoma 3	NM_005178	602	H
222039_at	LOC146909	hypothetical protein LOC146909	AA292789	146909	H
201531_at	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)	NM_003407	7538	H
202095_s_at	BIRC5	baculoviral IAP repeat-containing 5 (survivin)	NM_001168	332	H
203233_at	IL4R	interleukin 4 receptor	NM_000418	3566	H

211806_s_at	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15	D87291	3772	H
221539_at	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	AB044548	1978	H
212236_x_at	KRT17	keratin 17	Z19574	3872	H
220780_at	PLA2G3	phospholipase A2, group III	NM_015715	50487	H
205239_at	AREG	amphiregulin (schwannoma-derived growth factor)	NM_001657	374	H
200815_s_at	PFAH1B1	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa	L13386	5048	H
212290_at	SLC7A1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	AA527433	6541	H
214091_s_at	GPX3	glutathione peroxidase 3 (plasma)	AW149846	2878	H
219911_s_at	SLCO4A1	solute carrier organic anion transporter family, member 4A1	NM_016354	28231	H

209976_s_at	CYP2E1	cytochrome P450, family 2, subfamily E, polypeptide 1	AF182276	1571	H
211429_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	AF119873	5265	H
36564_at	RNF19B	ring finger protein 19B	W27419	127544	H
203234_at	UPP1	uridine phosphorylase 1	NM_003364	7378	H
205015_s_at	TGFA	transforming growth factor, alpha	NM_003236	7039	H
219270_at	CHAC1	ChaC, cation transport regulator homolog 1 (E. coli)	NM_024111	79094	H
221245_s_at	FZD5	frizzled homolog 5 (Drosophila)	NM_030804	7855	H
202954_at	UBE2C	ubiquitin-conjugating enzyme E2C	NM_007019	11065	H
204162_at	NDC80	NDC80 homolog, kinetochore complex component (S. cerevisiae)	NM_006101	10403	H
201860_s_at	PLAT	plasminogen activator, tissue	NM_000930	5327	H
203180_at	ALDH1A3	aldehyde dehydrogenase 1 family, member A3	NM_000693	220	H

209236_at	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2	AL389886	9962	H
216952_s_at	LMNB2	lamin B2	M94363	84823	H
218035_s_at	FLJ20273	RNA-binding protein	NM_019027	54502	H
204962_s_at	CENPA	centromere protein A	NM_001809	1058	H
206364_at	KIF14	kinesin family member 14	NM_014875	9928	H

205157_s_at	KRT17	keratin 17	NM_000422	3872	H
212022_s_at	MKI67	antigen identified by monoclonal antibody Ki-67	AU132185	4288	H
204767_s_at	FEN1	flap structure-specific endonuclease 1	BC000323	2237	H
210827_s_at	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)	U73844	1999	H
203764_at	DLG7	discs, large homolog 7 (Drosophila)	NM_014750	9787	H
204493_at	BID	BH3 interacting domain death agonist	NM_001196	637	H
222037_at	MCM4	minichromosome maintenance complex component 4	AI859865	4173	H
200935_at	CALR	calreticulin	NM_004343	811	H
202870_s_at	CDC20	cell division cycle 20 homolog (S. cerevisiae)	NM_001255	991	H
212657_s_at	IL1RN	interleukin 1 receptor antagonist	AW083357	3557	H
213572_s_at	SERPIN B1	serpin peptidase inhibitor, clade B (ovalbumin), member 1	AI554300	1992	H
218498_s_at	ERO1L	ERO1-like (S. cerevisiae)	NM_014584	30001	H
202779_s_at	UBE2S	ubiquitin-conjugating enzyme E2S	NM_014501	27338	H
203256_at	CDH3	cadherin 3, type 1, P-cadherin (placental)	NM_001793	1001	H

204641_at	NEK2	NIMA (never in mitosis gene a)-related kinase 2	NM_002497	4751	H
205014_at	FGFBP1	fibroblast growth factor binding protein 1	NM_005130	9982	H
209803_s_at	PHLDA2	pleckstrin homology-like domain, family A, member 2	AF001294	7262	H
216532_x_at			AL138831	643450	
205402_x_at	PRSS2	protease, serine, 2 (trypsin 2)	NM_002770	5645	H
209100_at	IFRD2	interferon-related developmental regulator 2	BC001327	7866	H
214011_s_at	HSPC111	hypothetical protein HSPC111	BE314601	51491	H
201693_s_at	EGR1	early growth response 1	NM_001964	1958	H
217185_s_at	LOC442240	similar to zinc finger protein 259	Z95118	442240	H
203499_at	EPHA2	EPH receptor A2	NM_004431	1969	H
204351_at	S100P	S100 calcium binding protein P	NM_005980	6286	H
39249_at	AQP3	aquaporin 3 (Gill blood group)	AB001325	360	H
213984_at	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (<i>S. cerevisiae</i>)	AW991219	23244	H
215760_s_at	SBNO2	strawberry notch homolog 2 (<i>Drosophila</i>)	AC005390	22904	H
212268_at	SERPIN B1	serpin peptidase inhibitor, clade B (ovalbumin), member 1	NM_030666	1992	H
213007_at	FANCI	Fanconi anemia, complementation group I	W74442	55215	H
216905_s_at	ST14	suppression of tumorigenicity 14 (colon carcinoma)	U20428	6768	H

218796_at	C20orf42	chromosome 20 open reading frame 42	NM_017671	55612	H
212021_s_at	MKI67	antigen identified by monoclonal antibody Ki-67	AU132185	4288	H
212659_s_at	IL1RN	interleukin 1 receptor antagonist	AW083357	3557	H
60474_at	C20orf42	chromosome 20 open reading frame 42	AA469071	55612	H
205394_at	CHEK1	CHK1 checkpoint homolog (S. pombe)	NM_001274	1111	H
205534_at	PCDH7	protocadherin 7	NM_002589	5099	H
220187_at	STEAP4	STEAP family member 4	NM_024636	79689	H
220865_s_at	PDSS1	prenyl (decaprenyl) diphosphate synthase, subunit 1	NM_014317	23590	H
219148_at	PBK	PDZ binding kinase	NM_018492	55872	H
219588_s_at	NCAPG2	non-SMC condensin II complex, subunit G2	NM_017760	54892	H
206157_at	PTX3	pentraxin-related gene, rapidly induced by IL-1 beta	NM_002852	5806	H
209373_at	MALL	mal, T-cell differentiation protein-like	BC003179	7851	H
200733_s_at	PTP4A1	protein tyrosine phosphatase type IVA, member 1	BF576710	7803	H
202068_s_at	LDLR	low density lipoprotein receptor (familial hypercholesterolemia)	NM_000527	3949	H
205759_s_at	SULT2B1	sulfotransferase family, cytosolic, 2B, member 1	NM_004605	6820	H
212769_at	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	AI56742	7090	H

at			6		
209825_s_at	UCK2	uridine-cytidine kinase 2	BC002906	7371	H
219347_at	NUDT15	nudix (nucleoside diphosphate linked moiety X)-type motif 15	NM_018283	55270	H
207622_s_at	ABCF2	ATP-binding cassette, sub-family F (GCN20), member 2	NM_005692	10061	H
209247_s_at	ABCF2	ATP-binding cassette, sub-family F (GCN20), member 2	BC001661	10061	H
202613_at	CTPS	CTP synthase	NM_001905	1503	H
204881_s_at	UGCG	UDP-glucose ceramide glucosyltransferase	NM_003358	7357	H
201473_at	JUNB	jun B proto-oncogene	NM_002229	3726	H
202107_s_at	MCM2	minichromosome maintenance complex component 2	NM_004526	4171	H
211015_s_at	HSPA4	heat shock 70kDa protein 4	L12723	3308	H
214226_at	POL3S	polymerase 3	AA528252	339105	H
201695_s_at	NP	nucleoside phosphorylase	NM_000270	4860	H
204826_at	CCNF	cyclin F	NM_001761	899	H
209344_at	TPM4	tropomyosin 4	BC002827	7171	H
219998_at	HSPC159	galectin-related protein	NM_014181	29094	H

218516_s_at	IMPAD1	inositol monophosphatase domain containing 1	NM_017813	54928	H
220238_s_at	KLHL7	kelch-like 7 (Drosophila)	NM_018846	55975	H
208965_s_at	PYHIN1	pyrin and HIN domain family, member 1	BG256677	149628	H
218900_at	CNNM4	cyclin M4	NM_020184	26504	H
218986_s_at	FLJ20035	hypothetical protein FLJ20035	NM_017631	55601	H
207655_s_at	BLNK	B-cell linker	NM_013314	29760	H
208191_x_at	PSG4	pregnancy specific beta-1-glycoprotein 4	NM_002780	5672	H
217188_s_at	C14orf1	chromosome 14 open reading frame 1	AC007182	11161	H
218622_at	NUP37	nucleoporin 37kDa	NM_024057	79023	H
202266_at	TTRAP	TRAF and TNF receptor associated protein	NM_016614	51567	H
211367_s_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	U13699	834	H
210732_s_at	LGALS8	lectin, galactoside-binding, soluble, 8 (galectin 8)	AL136105	3964	H
214453_s_at	IFI44	interferon-induced protein 44	NM_006417	10561	H
200887_s_at	STAT1	signal transducer and activator of transcription 1, 91kDa	NM_007315	6772	H
202170_s_at	AASDHPPT	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	AF151057	60496	H

219695_at	SMPD3	sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)	NM_024703	55512	H
222262_s_at	ETNK1	ethanolamine kinase 1	AL137750	55500	H
211366_x_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	U13698	834	H
211368_s_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	U13700	834	H
203560_at	GGH	gamma-glutamyl hydrolase (conjugase, folylpolyglammaglutamyl hydrolase)	NM_003878	8836	H
203767_s_at	STS	steroid sulfatase (microsomal), isozyme S	AI122754	412	H
202578_s_at	DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A	NM_018332	55308	H
202687_s_at	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10	NM_003810	8743	H
219369_s_at	OTUB2	OTU domain, ubiquitin aldehyde binding 2	NM_023112	78990	H
221107_at	CHRNA9	cholinergic receptor, nicotinic, alpha 9	NM_017581	55584	H
214490_at	ARSF	arylsulfatase F	NM_004042	416	H
218582_	5-Mar	membrane-associated ring finger (C3HC4) 5	NM_017	5470	H

at			824	8	
213933_at	PTGER3	prostaglandin E receptor 3 (subtype EP3)	AW242315	5733	H
214279_s_at	NDRG2	NDRG family member 2	W74452	57447	H
211561_x_at	MAPK14	mitogen-activated protein kinase 14	L35253	1432	H
211834_s_at	TP63	tumor protein p63	AB042841	8626	H
206643_at	HAL	histidine ammonia-lyase	NM_002108	3034	H
210830_s_at	PON2	paraoxonase 2	AF001602	5445	H
205832_at	CPA4	carboxypeptidase A4	NM_016352	51200	H
206133_at	XAF1	XIAP associated factor-1	NM_017523	54739	H
204439_at	IFI44L	interferon-induced protein 44-like	NM_006820	10964	H
204702_s_at	NFE2L3	nuclear factor (erythroid-derived 2)-like 3	NM_004289	9603	H

216125_s_at	RANBP9	RAN binding protein 9	AF064606	10048	H
221698_s_at	CLECT7A	C-type lectin domain family 7, member A	AF313468	64581	H
200798_x_at	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	NM_021960	4170	H
212365_at	MYO1B	myosin IB	BF215996	4430	H
205240_at	GPSM2	G-protein signaling modulator 2 (AGS3-like, C. elegans)	NM_013296	29899	H
210018_x_at	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1	AB026118	10892	H
214895_s_at	ADAM10	ADAM metalloproteinase domain 10	AU135154	102	H
201435_s_at	EIF4E	eukaryotic translation initiation factor 4E	AW268640	1977	H
217960_s_at	TOMM22	translocase of outer mitochondrial membrane 22 homolog (yeast)	NM_020243	56993	H
221765_at	UGCG	UDP-glucose ceramide glucosyltransferase	AI378044	7357	H
213501_at	ACOX1	acyl-Coenzyme A oxidase 1, palmitoyl	T62985	51	H
206075_s_at	CSNK2A1	casein kinase 2, alpha 1 polypeptide	NM_001895	1457	H
206113_s_at	RAB5A	RAB5A, member RAS oncogene family	NM_004162	5868	H

209457_at	DUSP5	dual specificity phosphatase 5	U16996	1847	H
217811_at	SELT	selenoprotein T	NM_016275	51714	H
200900_s_at	M6PR	mannose-6-phosphate receptor (cation dependent)	AI583537	4074	H
206788_s_at	CBFB	core-binding factor, beta subunit	AF294326	865	H
203276_at	LMNB1	lamin B1	NM_005573	4001	H
201514_s_at	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	NM_005754	10146	H
215207_x_at	LOC729148	similar to lethal (2) k00619 CG4775-PA	BF695847	729148	H
219272_at	TRIM62	tripartite motif-containing 62	NM_018207	55223	H
206472_s_at	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	NM_005078	7090	H
206604_at	OVOL1	ovo-like 1(Drosophila)	NM_004561	5017	H
219554_at	RHCG	Rh family, C glycoprotein	NM_016321	51458	H
221779_at	MICALL1	MICAL-like 1	AB051455	85377	H
203127_s_at	SPTLC2	serine palmitoyltransferase, long chain base subunit 2	BC005123	9517	H
204858_s_at	ECGF1	endothelial cell growth factor 1 (platelet-derived)	NM_001953	1890	H
210020_x_at	CALML3	calmodulin-like 3	M58026	810	H

211136_s_at	CLPTM1	cleft lip and palate associated transmembrane protein 1	BC004865	1209	H
206686_at	PDK1	pyruvate dehydrogenase kinase, isozyme 1	NM_002610	5163	H
222309_at	C6orf62	chromosome 6 open reading frame 62	AW972292	81688	H
211919_s_at	CXCR4	chemokine (C-X-C motif) receptor 4	AF348491	7852	H
220285_at	FAM108B1	family with sequence similarity 108, member B1	NM_016014	51104	H
220528_at	VNN3	vanin 3	NM_018399	55350	H
206912_at	FOXE1	forkhead box E1 (thyroid transcription factor 2)	NM_004473	2304	H
216316_x_at	GK	glycerol kinase	X78713	2710	H
219316_s_at	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2	NM_017791	55640	H

220249_at	HYAL4	hyaluronoglucosaminidase 4	NM_012269	23553	H
219684_at	RTP4	receptor (chemosensory) transporter protein 4	NM_022147	64108	H
221416_at	PLA2G2F	phospholipase A2, group IIF	NM_022819	64600	H
212481_s_at	TPM4	tropomyosin 4	AI214061	7171	H
200730_s_at	PTP4A1	protein tyrosine phosphatase type IVA, member 1	BF576710	7803	H
217678_at	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	AA488687	23657	H
218349_s_at	ZWILCH	Zwilch, kinetochore associated, homolog (Drosophila)	AA824298	55055	H
208910_s_at	C1QBP	complement component 1, q subcomponent binding protein	L04636	708	H
209024_s_at	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	AI472757	10492	H
213741_s_at	KPNA1	karyopherin alpha 1 (importin alpha 5)	BF575685	3836	H
214168_s_at	TJP1	tight junction protein 1 (zona occludens 1)	AA813018	7082	H

203362_s_at	MAD2L1	MAD2 mitotic arrest deficient-like 1 (yeast)	NM_002358	4085	H
204678_s_at	KCNK1	potassium channel, subfamily K, member 1	U90065	3775	H
219099_at	C12orf5	chromosome 12 open reading frame 5	NM_020375	5710 3	H
220620_at	CRCT1	cysteine-rich C-terminal 1	NM_019060	5454 4	H
217785_s_at	YKT6	YKT6 v-SNARE homolog (<i>S. cerevisiae</i>)	NM_006555	1065 2	H
217924_at	C6orf106	chromosome 6 open reading frame 106	AL523965	6477 1	H
204751_x_at	DSC2	desmocollin 2	NM_004949	1824	H
205220_at	GPR109B	G protein-coupled receptor 109B	NM_006018	8843	H
201537_s_at	DUSP3	dual specificity phosphatase 3 (<i>vaccinia virus</i> phosphatase VH1-related)	AL048503	1845	H
204747_at	IFIT3	interferon-induced protein with tetratricopeptide repeats 3	NM_001549	3437	H
210559_s_at	CDC2	cell division cycle 2, G1 to S and G2 to M	D88357	983	H
210834_s_at	PTGER3	prostaglandin E receptor 3 (subtype EP3)	AL031429	5733	H
209507_at	RPA3	replication protein A3, 14kDa	BC005264	6119	H
212379_at	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	BE966876	2618	H
218951_	PLCXD1	phosphatidylinositol-specific phospholipase C, X domain containing 1	NM_018	5534	H

s_at			390	4	
219389_at	SUSD4	sushi domain containing 4	NM_017982	55061	H
212378_at	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	NM_000819	2618	H
212737_at	GM2A	GM2 ganglioside activator	AL513583	2760	H
211715_s_at	BDH1	3-hydroxybutyrate dehydrogenase, type 1	BC005844	622	H
211788_s_at	TREX2	three prime repair exonuclease 2	AF319573	11219	H
210357_s_at	SMOX	spermine oxidase	BC000669	54498	H
211622_s_at	ARF3	ADP-ribosylation factor 3	M33384	377	H
209679_s_at	LOC57228	small trans-membrane and glycosylated protein	BC003379	57228	H
209744_x_at	ITCH	itchy homolog E3 ubiquitin protein ligase (mouse)	AB056663	83737	H
209093_s_at	GBA	glucosidase, beta; acid (includes glucosylceramidase)	K02920	2629	H

209186_at	ATP2A2	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	M23114	488	H
207008_at	IL8RB	interleukin 8 receptor, beta	NM_001557	3579	H
207992_s_at	AMPD3	adenosine monophosphate deaminase (isoform E)	NM_000480	272	H
206421_s_at	SERPIN B7	serpin peptidase inhibitor, clade B (ovalbumin), member 7	NM_003784	8710	H
206553_at	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa	NM_002535	4939	H
205064_at	SPRR1B	small proline-rich protein 1B (cornifin)	NM_003125	6699	H
205590_at	RASGRP 1	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	NM_005739	10125	H
204415_at	IFI6	interferon, alpha-inducible protein 6	NM_022873	2537	H
204478_s_at	RABIF	RAB interacting factor	U74324	5877	H
203665_at	HMOX1	heme oxygenase (decycling) 1	NM_002133	3162	H
203740_at	MPHOSP H6	M-phase phosphoprotein 6	NM_005792	10200	H
202788_at	MAPKAP K3	mitogen-activated protein kinase-activated protein kinase 3	NM_004635	7867	H
202831_at	GPX2	glutathione peroxidase 2 (gastrointestinal)	NM_002083	2877	H
201243_s_at	ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	NM_001677	481	H

201274_at	PSMA5	proteasome (prosome, macropain) subunit, alpha type, 5	NM_002790	5686	H
200734_s_at	ARF3	ADP-ribosylation factor 3	BG341906	377	H
200776_s_at	LOC151579	similar to basic leucine zipper and W2 domains 1	AL518328	151579	H
220664_at	SPRR2C	small proline-rich protein 2C	NM_006518	6702	H
220944_at	PGLYRP4	peptidoglycan recognition protein 4	NM_020393	57115	H
220239_at	KLHL7	kelch-like 7 (Drosophila)	NM_018846	55975	H
220318_at	EPN3	epsin 3	NM_017957	55040	H
219799_s_at	DHRS9	dehydrogenase/reductase (SDR family) member 9	NM_005771	10170	H
220013_at	ABHD9	abhydrolase domain containing 9	NM_024794	79852	H
219352_at	HERC6	hect domain and RLD 6	NM_017912	55008	H
219795_at	SLC6A14	solute carrier family 6 (amino acid transporter), member 14	NM_007231	11254	H
218890_x_at	MRPL35	mitochondrial ribosomal protein L35	NM_016622	51318	H
219015_s_at	ALG13	asparagine-linked glycosylation 13 homolog (S. cerevisiae)	BC005336	55849	H
218817_at	SPCS3	signal peptidase complex subunit 3 homolog (S. cerevisiae)	NM_021928	60559	H
218856_at	TNFRSF21	tumor necrosis factor receptor superfamily, member 21	NM_016629	27242	H

218542_at	CEP55	centrosomal protein 55kDa	NM_018131	55165	H
218719_s_at	GIN3	GIN3 complex subunit 3 (Psf3 homolog)	NM_022770	64785	H
218400_at	OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa	NM_006187	4940	H
218512_at	WDR12	WD repeat domain 12	NM_018256	55759	H
217315_s_at	KLK13	kallikrein-related peptidase 13	AL050220	26085	H
217475_s_at	LIMK2	LIM domain kinase 2	AC002073	3985	H
215891_s_at	GM2A	GM2 ganglioside activator	X61094	2760	H
215966_x_at	GK3P	glycerol kinase 3 pseudogene	AA292874	2713	H
213696_s_at	MED8	mediator complex subunit 8	AA421957	112950	H
213710_s_at			AL523275		
208012_x_at	SP110	SP110 nuclear body protein	NM_004509	3431	H
208967_s_at	AK2	adenylate kinase 2	U39945	204	H
205513_at	TCN1	transcobalamin I (vitamin B12 binding protein, R binder family)	NM_001062	6947	H
205863_at	S100A12	S100 calcium binding protein A12	NM_005621	6283	H
204058_at	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic	AL049699	4199	H
204385_at	KYNU	kynureninase (L-kynurenine hydrolase)	NM_003937	8942	H
218448_at	C20orf11	chromosome 20 open reading frame 11	NM_017	5499	H

at			896	4	
218943_s_at	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	NM_014314	23586	H
219095_at	PLA2G4B	phospholipase A2, group IVB (cytosolic)	NM_005090	8681	H
219691_at	SAMD9	sterile alpha motif domain containing 9	NM_017654	54809	H
214512_s_at	SUB1	SUB1 homolog (<i>S. cerevisiae</i>)	NM_006713	10923	H
214583_at	RSC1A1	regulatory solute carrier protein, family 1, member 1	AI268381	6248	H
217919_s_at	MRPL42	mitochondrial ribosomal protein L42	AL136659	28977	H
208456_s_at	RRAS2	related RAS viral (r-ras) oncogene homolog 2	NM_012250	22800	H
208539_x_at	SPRR2D	small proline-rich protein 2D	NM_006945	6703	H
213927_at	MAP3K9	mitogen-activated protein kinase kinase kinase 9	AV753204	4293	H
216804_s_at	PDLIM5	PDZ and LIM domain 5	AK027217	10611	H
209363_s_at	MED21	mediator complex subunit 21	U46837	9412	H
211075_s_at	CD47	CD47 molecule	Z25521	961	H
207181_s_at	CASP7	caspase 7, apoptosis-related cysteine peptidase	NM_001227	840	H
207387_	GK	glycerol kinase	NM_000	2710	H

s_at			167		
206164_at	CLCA2	chloride channel, calcium activated, family member 2	NM_006536	9635	H
206166_s_at	CLCA2	chloride channel, calcium activated, family member 2	AF043977	9635	H
216607_s_at	CYP51A1	cytochrome P450, family 51, subfamily A, polypeptide 1	U40053	1595	H
217388_s_at	KYNU	kynureninase (L-kynurenine hydrolase)	D55639	8942	H
209208_at	MPDU1	mannose-P-dolichol utilization defect 1	AF059752	9526	H
209872_s_at	PKP3	plakophilin 3	BF001503	11187	H
203125_x_at	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	AF046997	4891	H
203972_s_at	PEX3	peroxisomal biogenesis factor 3	AB035307	8504	H
214070_s_at	ATP10B	ATPase, Class V, type 10B	AW006935	23120	H
217202_s_at	GLUL	glutamate-ammonia ligase (glutamine synthetase)	U08626	2752	H
209949_at	NCF2	neutrophil cytosolic factor 2 (65kDa, chronic granulomatous disease, autosomal 2)	BC001606	4688	H
209970_x_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	M87507	834	H
209142_s_at	UBE2G1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)	BC002775	7326	H
209456_s_at	FBXW11	F-box and WD repeat domain containing 11	AB033281	23291	H

206302_s_at	NUDT4	nudix (nucleoside diphosphate linked moiety X)-type motif 4	NM_019094	11163	H
206748_s_at	SPAG9	sperm associated antigen 9	NM_003971	9043	H
201487_at	CTSC	cathepsin C	NM_001814	1075	H
201739_at	SGK	serum/glucocorticoid regulated kinase	NM_005627	6446	H
200803_s_at	TEGT	testis enhanced gene transcript (BAX inhibitor 1)	NM_003217	7009	H
200806_s_at	HSPD1	heat shock 60kDa protein 1 (chaperonin)	BE256479	3329	H
200648_s_at	GLUL	glutamate-ammonia ligase (glutamine synthetase)	NM_002065	2752	H
200669_s_at	UBE2D3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	NM_003340	7323	H
217028_at	CXCR4	chemokine (C-X-C motif) receptor 4	AJ224869	7852	H
218095_s_at	TMEM165	transmembrane protein 165	BC003545	55858	H
214697_s_at	ROD1	ROD1 regulator of differentiation 1 (S. pombe)	AW190873	9991	H
216640_s_at	PDIA6	protein disulfide isomerase family A, member 6	AK026926	10130	H
213060_s_at	CHI3L2	chitinase 3-like 2	U58515	1117	H

213320_at	PRMT3	protein arginine methyltransferase 3	AL551971	10196	H
210951_x_at	RAB27A	RAB27A, member RAS oncogene family	AF125393	5873	H
211676_s_at	IFNGR1	interferon gamma receptor 1	AF056979	3459	H
210594_x_at	MPZL1	myelin protein zero-like 1	AF239756	9019	H
210638_s_at	FBXO9	F-box protein 9	AF176704	2628	H
207098_s_at	MFN1	mitofusin 1	NM_017927	55669	H
209520_s_at	NCBP1	nuclear cap binding protein subunit 1, 80kDa	BC001450	4686	H
204905_s_at	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1	NM_004280	9521	H
205126_at	VRK2	vaccinia related kinase 2	NM_006296	7444	H
221962_s_at	UBE2H	ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast)	AI829920	7328	H

200889_s_at	SSR1	signal sequence receptor, alpha (translocon-associated protein alpha)	NM_003144	6745	H
200987_x_at	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	AA758755	10197	H
219648_at	MREG	melanoregulin	NM_018000	55686	H
219960_s_at	UCHL5	ubiquitin carboxyl-terminal hydrolase L5	NM_015984	51377	H
214435_x_at	RALA	v-ral simian leukemia viral oncogene homolog A (ras related)	NM_005402	5898	H
214446_at	ELL2	elongation factor, RNA polymerase II, 2	NM_012081	22936	H
212102_s_at	KPNA6	karyopherin alpha 6 (importin alpha 7)	BG403834	23633	H
212219_at	PSME4	proteasome (prosome, macropain) activator subunit 4	D38521	23198	H
204240_s_at	SMC2	structural maintenance of chromosomes 2	NM_006444	10592	H
204614_at	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2	NM_002575	5055	H
202430_s_at	PLSCR1	phospholipid scramblase 1	NM_021105	5359	H
202626_s_at	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	AI356412	4067	H
202269_x_at	GBP1	guanylate binding protein 1, interferon-inducible, 67kDa	NM_002053	2633	H
202352_s_at	PSMD12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12	AI446530	5718	H
201048_x_at	RAB6A	RAB6A, member RAS oncogene family	NM_002869	5870	H
201195_	SLC7A5	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	AB0180	8140	H

s_at			09		
204761_at	USP6NL	USP6 N-terminal like	NM_014688	9712	H
204809_at	CLPX	ClpX caseinolytic peptidase X homolog (E. coli)	NM_006660	10845	H
203358_s_at	EZH2	enhancer of zeste homolog 2 (Drosophila)	NM_004456	2146	H
203770_s_at	STS	steroid sulfatase (microsomal), isozyme S	NM_000351	412	H
211906_s_at	SERPINB4	serpin peptidase inhibitor, clade B (ovalbumin), member 4	AB046400	6318	H
212009_s_at	STIP1	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)	AL553320	10963	H
209853_s_at	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	BC001423	10197	H
210186_s_at	FKBP1A	FK506 binding protein 1A, 12kDa	BC005147	2280	H
207126_x_at	UGT1A1	UDP glucuronosyltransferase 1 family, polypeptide A1	NM_000463	54658	H
207356_at	DEFB4	defensin, beta 4	NM_004942	1673	H
206628_at	SLC5A1	solute carrier family 5 (sodium/glucose cotransporter), member 1	NM_000343	6523	H
206911_at	TRIM25	tripartite motif-containing 25	NM_005082	7706	H
210138_	RGS20	regulator of G-protein signaling 20	AF0749	8601	H

at			79		
210317_s_at	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	U28936	7531	H
205016_at	TGFA	transforming growth factor, alpha	NM_003236	7039	H
205483_s_at	ISG15	ISG15 ubiquitin-like modifier	NM_005101	9636	H
206562_s_at	CSNK1A1	casein kinase 1, alpha 1	NM_001892	1452	H
206605_at	P11	26 serine protease	NM_006025	8909	H
206491_s_at	NAPA	N-ethylmaleimide-sensitive factor attachment protein, alpha	NM_003827	8775	H
206561_s_at	AKR1B10	aldo-keto reductase family 1, member B10 (aldose reductase)	NM_020299	57016	H
206303_s_at	NUDT4	nudix (nucleoside diphosphate linked moiety X)-type motif 4	NM_019094	11163	H

206409_at	TIAM1	T-cell lymphoma invasion and metastasis 1	NM_003253	7074	H
206177_s_at	ARG1	arginase, liver	NM_000045	383	H
206193_s_at	CDSN	corneodesmosin	NM_001264	1041	H
205990_s_at	WNT5A	wingless-type MMTV integration site family, member 5A	NM_003392	7474	H
206125_s_at	KLK8	kallikrein-related peptidase 8	NM_007196	1120 2	H
205822_s_at	HMGCS1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	NM_002130	3157	H
205844_at	VNN1	vanin 1	NM_004666	8876	H
205767_at	EREG	epiregulin	NM_001432	2069	H
205778_at	KLK7	kallikrein-related peptidase 7	NM_005046	5650	H

205724_at	PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	NM_000299	5317	H
205729_at	OSMR	oncostatin M receptor	NM_003999	9180	H
205552_s_at	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa	NM_002534	4938	H
205569_at	LAMP3	lysosomal-associated membrane protein 3	NM_014398	27074	H
204972_at	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa	NM_016817	4939	H
204995_at	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	AL567411	8851	H
204841_s_at	EEA1	early endosome antigen 1	NM_003566	8411	H
204967_at	SHROOM2	shroom family member 2	NM_001649	357	H
204527_at	MYO5A	myosin VA (heavy chain 12, myoxin)	NM_000259	4644	H
204532_x_at	UGT1A9	UDP glucuronosyltransferase 1 family, polypeptide A9	NM_021027	54600	H

204444_at	KIF11	kinesin family member 11	NM_004523	3832	H
204465_s_at	INA	internexin neuronal intermediate filament protein, alpha	NM_004692	9118	H
204147_s_at	TFDP1	transcription factor Dp-1	NM_007111	7027	H
204224_s_at	GCH1	GTP cyclohydrolase 1 (dopa-responsive dystonia)	NM_000161	2643	H
204059_s_at	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic	NM_002395	4199	H
204128_s_at	RFC3	replication factor C (activator 1) 3, 38kDa	BC000149	5983	H
203798_s_at	VSNL1	visinin-like 1	NM_003385	7447	H
203964_at	NMI	N-myc (and STAT) interactor	NM_004688	9111	H
203779_s_at	MPZL2	myelin protein zero-like 2	NM_005797	10205	H
203780_at	MPZL2	myelin protein zero-like 2	AF275945	10205	H
203691_at	PI3	peptidase inhibitor 3, skin-derived (SKALP)	NM_002638	5266	H
203699_s_at	DIO2	deiodinase, iodothyronine, type II	U53506	1734	H
203471_s_at	PLEK	pleckstrin	NM_002664	5341	H
203641_s_at	COBLL1	COBL-like 1	NM_014900	22837	H
203311_s_at	ARF6	ADP-ribosylation factor 6	NM_001663	382	H

203360_s_at	MYCBP	c-myc binding protein	D50692	26292	H
203207_s_at	MTFR1	mitochondrial fission regulator 1	BF214329	9650	H
203293_s_at	LMAN1	lectin, mannose-binding, 1	NM_005570	3998	H
203032_s_at	FH	fumarate hydratase	NM_000143	2271	H
203148_s_at	TRIM14	tripartite motif-containing 14	NM_014788	9830	H
202886_s_at	PPP2R1B	protein phosphatase 2 (formerly 2A), regulatory subunit A, beta isoform	M65254	5519	H
202889_x_at	MAP7	microtubule-associated protein 7	T62571	9053	H
202805_s_at	ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	NM_004996	4363	H
202869_at	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa	NM_016816	4938	H
202697_at	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	NM_007006	11051	H
202787_s_at	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3	NM_004635	7867	H
202604_x_at	ADAM10	ADAM metalloproteinase domain 10	NM_001110	102	H

202693_s_at	STK17A	serine/threonine kinase 17a	NM_004760	9263	H
202446_s_at	PLSCR1	phospholipid scramblase 1	AI825926	5359	H
202595_s_at	LEPROTL1	leptin receptor overlapping transcript-like 1	BC000642	23484	H
202357_s_at	CFB	complement factor B	NM_001710	629	H
202411_at	IFI27	interferon, alpha-inducible protein 27	NM_005532	3429	H
202195_s_at	TMED5	transmembrane emp24 protein transport domain containing 5	NM_016040	50999	H
202236_s_at	SLC16A1	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	NM_003051	6566	H
201946_s_at	CCT2	chaperonin containing TCP1, subunit 2 (beta)	AL545982	10576	H
202064_s_at	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)	AF052059	6400	H
201821_s_at	TIMM17A	translocase of inner mitochondrial membrane 17 homolog A (yeast)	NM_006335	10440	H
201848_s_at	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3	U15174	664	H
201732_s_at	CLCN3	chloride channel 3	NM_001829	1182	H
201733_at	CLCN3	chloride channel 3	AA902971	1182	H

201629_s_at	ACP1	acid phosphatase 1, soluble	NM_004300	52	H
201663_s_at	SMC4	structural maintenance of chromosomes 4	NM_005496	10051	H
201490_s_at	PPIF	peptidylprolyl isomerase F (cyclophilin F)	NM_005729	10105	H
201523_x_at	UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	BE262760	7334	H
201469_s_at	SHC1	SHC (Src homology 2 domain containing) transforming protein 1	AI809967	6464	H
201476_s_at	RRM1	ribonucleotide reductase M1 polypeptide	AI692974	6240	H
201118_at	PGD	phosphogluconate dehydrogenase	NM_002631	5226	H
201196_s_at	AMD1	adenosylmethionine decarboxylase 1	M21154	262	H
201089_at	ATP6V1B2	ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2	NM_001693	526	H
201101_s_at	BCLAF1	BCL2-associated transcription factor 1	BE963370	9774	H

200838_at	CTSB	cathepsin B	NM_001908	1508	H
200841_s_at	EPRS	glutamyl-prolyl-tRNA synthetase	AI142677	2058	H
41469_at	PI3	peptidase inhibitor 3, skin-derived (SKALP)	L10343	5266	H
200712_s_at	MAPRE1	microtubule-associated protein, RP/EB family, member 1	NM_012325	22919	H
200796_s_at	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	BF594446	4170	H
221903_s_at	CYLD	cylindromatosis (turban tumor syndrome)	BF516433	1540	H
266_s_at	CD24	CD24 molecule	L33930	934	H
221487_s_at	ENSA	endosulfine alpha	AF067170	2029	H
221803_s_at	NRBF2	nuclear receptor binding factor 2	AA883074	29982	H
220892_s_at	PSAT1	phosphoserine aminotransferase 1	NM_021154	29968	H
221113_s_at	WNT16	wingless-type MMTV integration site family, member 16	NM_016087	51384	H
220322_at	IL1F9	interleukin 1 family, member 9	NM_019618	56300	H

220724_at	FLJ21511	hypothetical protein FLJ21511	NM_025087	80157	H
219856_at	C1orf116	chromosome 1 open reading frame 116	NM_023938	79098	H
220104_at	ZC3HAV1	zinc finger CCCH-type, antiviral 1	NM_020119	56829	H
219630_at	PDZK1IP1	PDZK1 interacting protein 1	NM_005764	10158	H
219722_s_at	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3	NM_024307	79153	H
219412_at	RAB38	RAB38, member RAS oncogene family	NM_022337	23682	H
219428_s_at	PXMP4	peroxisomal membrane protein 4, 24kDa	NM_007238	11264	H
219289_at	HEATR3	HEAT repeat containing 3	NM_017939	55027	H
219403_s_at	HPSE	heparanase	AF155510	10855	H
219253_at	TMEM185B	transmembrane protein 185B	NM_024121	79134	H
219267_at	GLTP	glycolipid transfer protein	NM_016433	51228	H
219121_s_at	RBM35A	RNA binding motif protein 35A	NM_017697	54845	H
219209_at	IFIH1	interferon induced with helicase C domain 1	NM_022168	64135	H
219016_at	FASTKD5	FAST kinase domains 5	NM_021826	60493	H
219079_at	CYB5R4	cytochrome b5 reductase 4	NM_016230	51167	H
218810_at	ZC3H12A	zinc finger CCCH-type containing 12A	NM_025079	80149	H
218992_at	C9orf46	chromosome 9 open reading frame 46	NM_018465	55848	H

218295_s_at	NUP50	nucleoporin 50kDa	AF267865	10762	H
218454_at	FLJ22662	hypothetical protein FLJ22662	NM_024829	79887	H
218209_s_at	P15RS	hypothetical protein FLJ10656	NM_018170	55197	H
218254_s_at	SAR1B	SAR1 gene homolog B (<i>S. cerevisiae</i>)	NM_016103	51128	H
218073_s_at	TMEM48	transmembrane protein 48	NM_018087	55706	H
218163_at	MCTS1	malignant T cell amplified sequence 1	NM_014060	28985	H
217921_at	MAN1A2	mannosidase, alpha, class 1A, member 2	BE543064	10905	H
217930_s_at	TOLLIP	toll interacting protein	NM_019009	54472	H
217741_s_at	ZFAND5	zinc finger, AN1-type domain 5	NM_006007	7763	H
217835_x_at	C20orf24	chromosome 20 open reading frame 24	NM_018840	55969	H
217294_s_at	ENO1	enolase 1, (alpha)	U88968	2023	H
217356_s_at	PGK1	phosphoglycerate kinase 1	S81916	5230	H
216598_s_at	CCL2	chemokine (C-C motif) ligand 2	S69738	6347	H
216915_s_at	PTPN12	protein tyrosine phosphatase, non-receptor type 12	S69182	5782	H
216202_s_at	SPTLC2	serine palmitoyltransferase, long chain base subunit 2	U15555	9517	H

216258_s_at	SERPIN B13	serpin peptidase inhibitor, clade B (ovalbumin), member 13	BE148534	5275	H
215465_at	ABCA12	ATP-binding cassette, sub-family A (ABC1), member 12	AL080207	26154	H
215471_s_at	MAP7	microtubule-associated protein 7	AJ242502	9053	H
214499_s_at	BCLAF1	BCL2-associated transcription factor 1	AF249273	9774	H
214581_x_at	TNFRSF 21	tumor necrosis factor receptor superfamily, member 21	BE568134	27242	H
214076_at	GFOD2	glucose-fructose oxidoreductase domain containing 2	AI697803	81577	H
214119_s_at	FKBP1A	FK506 binding protein 1A, 12kDa	AI936769	2280	H
213562_s_at	SQLE	squalene epoxidase	BF979497	6713	H
213851_at	TMEM110	transmembrane protein 110	BG031677	375346	H
213189_at	MINA	MYC induced nuclear antigen	AI823896	84864	H
213425_at	WNT5A	wingless-type MMTV integration site family, member 5A	AI968085	7474	H
212942_s_at	KIAA1199	KIAA1199	AB033025	57214	H
212978_at	LRR8B	leucine rich repeat containing 8 family, member B	AU146004	23507	H
212531_at	LCN2	lipocalin 2 (oncogene 24p3)	NM_005564	3934	H
212902_at	SEC24A	SEC24 related gene family, member A (S. cerevisiae)	BE645231	10802	H
212016_s_at	PTBP1	polypyrimidine tract binding protein 1	AA679988	5725	H

212125_ at	RANGAP 1	Ran GTPase activating protein 1	NM_002 883	5905	H
211612_ s_at	IL13RA1	interleukin 13 receptor, alpha 1	U62858	3597	H
211681_ s_at	PDLIM5	PDZ and LIM domain 5	AF1167 05	1061 1	H
211150_ s_at	DLAT	dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex)	J03866	1737	H
211362_ s_at	SERPIN B13	serpin peptidase inhibitor, clade B (ovalbumin), member 13	AF1699 49	5275	H
210852_ s_at	AASS	aminoadipate-semialdehyde synthase	AF2291 80	1015 7	H
210935_ s_at	WDR1	WD repeat domain 1	AF2749 54	9948	H
210663_ s_at	KYNU	kynureninase (L-kynurenine hydrolase)	BC0008 79	8942	H
210802_ s_at	DIMT1L	DIM1 dimethyladenosine transferase 1-like (<i>S. cerevisiae</i>)	BC0028 41	2729 2	H
210413_ x_at	SERPIN B4	serpin peptidase inhibitor, clade B (ovalbumin), member 4	U19557	6318	H
210449_ x_at	MAPK14	mitogen-activated protein kinase 14	AF1005 44	1432	H

209882_ at	RIT1	Ras-like without CAAX 1	AF0844 62	6016	H
210087_ s_at	MPZL1	myelin protein zero-like 1	AF0957 27	9019	H
209761_ s_at	SP110	SP110 nuclear body protein	AA9691 94	3431	H
209772_ s_at	CD24	CD24 molecule	X69397	934	H
209231_ s_at	DCTN5	dynactin 5 (p25)	BC0041 91	8451 6	H
209514_ s_at	RAB27A	RAB27A, member RAS oncogene family	BE5020 30	5873	H
208952_ s_at	LARP5	La ribonucleoprotein domain family, member 5	AU1543 58	2318 5	H
209188_ x_at	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)	AW5169 32	1810	H
208932_ at	PPP4C	protein phosphatase 4 (formerly X), catalytic subunit	BC0014 16	5531	H
208934_ s_at	LGALS8	lectin, galactoside-binding, soluble, 8 (galectin 8)	AI65900 5	3964	H
208811_ s_at	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6	AF0805 69	1004 9	H
208905_ at	CYCS	cytochrome c, somatic	BC0052 99	5420 5	H
208708_ x_at	EIF5	eukaryotic translation initiation factor 5	AL0801 02	1983	H
208744_ x_at	HSPH1	heat shock 105kDa/110kDa protein 1	D86956	1080 8	H
208621_ s_at	VIL2	villin 2 (ezrin)	BF6631 41	7430	H

208650_s_at	CD24	CD24 molecule	BG327863	934	H
208290_s_at	EIF5	eukaryotic translation initiation factor 5	NM_001969	1983	H
208309_s_at	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1	NM_006785	10892	H
207791_s_at	RAB1A	RAB1A, member RAS oncogene family	NM_004161	5861	H
208103_s_at	ANP32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	NM_030920	81611	H
207367_at	ATP12A	ATPase, H+/K+ transporting, nongastric, alpha polypeptide	NM_001676	479	H
207620_s_at	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	NM_003688	8573	H
214838_at	SFT2D2	SFT2 domain containing 2	AL035297	375035	H
214959_s_at	API5	apoptosis inhibitor 5	AF229253	8539	H
209720_s_at	SERPINB3	serpin peptidase inhibitor, clade B (ovalbumin), member 3	BC005224	6317	H
209969_s_at	STAT1	signal transducer and activator of transcription 1, 91kDa	BC002704	6772	H
219358_s_at	CENTA2	centaurin, alpha 2	NM_018404	55803	H
219858_s_at	FLJ2016	FLJ20160 protein	NM_017	5484	H

s_at	0		694	2	
212374_at	FEM1B	fem-1 homolog b (<i>C. elegans</i>)	NM_015322	10116	H
212479_s_at	RMND5A	required for meiotic nuclear division 5 homolog A (<i>S. cerevisiae</i>)	AK022815	64795	H
35820_at	GM2A	GM2 ganglioside activator	M76477	2760	H
200628_s_at	WARS	tryptophanyl-tRNA synthetase	M61715	7453	H
200664_s_at	DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1	NM_006145	3337	H
32069_at	N4BP1	Nedd4 binding protein 1	AB014515	9683	H
33646_g_at	GM2A	GM2 ganglioside activator	X61094	2760	H
220599_s_at	CARD14	caspase recruitment domain family, member 14	NM_024110	79092	H
220658_s_at	ARNTL2	aryl hydrocarbon receptor nuclear translocator-like 2	NM_020183	56938	H
219990_at	E2F8	E2F transcription factor 8	NM_024680	79733	H
220066_at	NOD2	nucleotide-binding oligomerization domain containing 2	NM_022162	64127	H
217834_s_at	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	AL520908	10492	H
218049_s_at	MRPL13	mitochondrial ribosomal protein L13	NM_014078	28998	H
217738_at	PBEF1	pre-B-cell colony enhancing factor 1	NM_005746	10135	H
217739_s_at	PBEF1	pre-B-cell colony enhancing factor 1	NM_005746	10135	H

s_at			746	5	
216379_x_at	CD24	CD24 molecule	AK000168	934	H
216684_s_at	SS18	synovial sarcoma translocation, chromosome 18	AF257501	6760	H
211361_s_at	SERPIN B13	serpin peptidase inhibitor, clade B (ovalbumin), member 13	AF169949	5275	H
211762_s_at	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	BC005978	3838	H
210833_at	PTGER3	prostaglandin E receptor 3 (subtype EP3)	AL031429	5733	H
210904_s_at	IL13RA1	interleukin 13 receptor, alpha 1	U81380	3597	H
210652_s_at	C1orf34	chromosome 1 open reading frame 34	BC004399	22996	H
210754_s_at	LYN	v-src-1 Yamaguchi sarcoma viral related oncogene homolog	M79321	4067	H
210458_s_at	TANK	TRAF family member-associated NFKB activator	BC003388	10010	H
210589_s_at	GBA	glucosidase, beta; acid (includes glucosylceramidase)	D13287	2629	H

209925_ at	OCLN	occludin	U53823	4950	H
210058_ at	MAPK13	mitogen-activated protein kinase 13	BC0004 33	5603	H
209792_ s_at	KLK10	kallikrein-related peptidase 10	BC0027 10	5655	H
209921_ at	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	AB0408 75	2365 7	H
209771_ x_at	CD24	CD24 molecule	AA7611 81	934	H
209773_ s_at	RRM2	ribonucleotide reductase M2 polypeptide	BC0018 86	6241	H
209218_ at	SQLE	squalene epoxidase	AF0988 65	6713	H

209719_x_at	SERPIN B3	serpin peptidase inhibitor, clade B (ovalbumin), member 3	BC005224	6317	H
208651_x_at	CD24	CD24 molecule	BG327863	934	H
209025_s_at	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	AF037448	10492	H
208126_s_at	CYP2C18	cytochrome P450, family 2, subfamily C, polypeptide 18	NM_000772	1562	H
208436_s_at	IRF7	interferon regulatory factor 7	NM_004030	3665	H
207381_at	ALOX12B	arachidonate 12-lipoxygenase, 12R type	NM_001139	242	H
207654_x_at	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)	NM_001938	1810	H
207038_at	SLC16A6	solute carrier family 16, member 6 (monocarboxylic acid transporter 7)	NM_004694	9120	H
207254_at	SLC15A1	solute carrier family 15 (oligopeptide transporter), member 1	NM_005073	6564	H
206499_s_at	RCC1	regulator of chromosome condensation 1	NM_001269	1104	H
207018_s_at	RAB27B	RAB27B, member RAS oncogene family	NM_004163	5874	H
205783_at	KLK13	kallikrein-related peptidase 13	NM_015596	26085	H
206034_at	SERPIN B8	serpin peptidase inhibitor, clade B (ovalbumin), member 8	NM_002640	5271	H
205246_at	PEX13	peroxisome biogenesis factor 13	NM_002618	5194	H
205554_s_at	DNASE1L3	deoxyribonuclease I-like 3	NM_004944	1776	H
205008_	CIB2	calcium and integrin binding family member 2	NM_006	1051	H

s_at			383	8	
205241_at	SCO2	SCO cytochrome oxidase deficient homolog 2 (yeast)	NM_005138	9997	H
204616_at	UCHL3	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)	NM_006002	7347	H
204638_at	ACP5	acid phosphatase 5, tartrate resistant	NM_001611	54	H
204170_s_at	CKS2	CDC28 protein kinase regulatory subunit 2	NM_001827	1164	H
204341_at	TRIM16	tripartite motif-containing 16	NM_006470	10626	H
203153_at	IFIT1	interferon-induced protein with tetratricopeptide repeats 1	NM_001548	3434	H
203432_at	TMPO	thymopoietin	AW272611	7112	H
202539_s_at	HMGCR	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	NM_000859	3156	H
202575_at	CRABP2	cellular retinoic acid binding protein 2	NM_001878	1382	H
202503_s_at	KIAA0101	KIAA0101	NM_014736	9768	H
202533_s_at	DHFR	dihydrofolate reductase	NM_000791	1719	H
202069_s_at	IDH3A	isocitrate dehydrogenase 3 (NAD+) alpha	NM_005530	3419	H
202134_s_at	WWTR1	WW domain containing transcription regulator 1	NM_015472	25937	H
201890_at	RRM2	ribonucleotide reductase M2 polypeptide	BE966236	6241	H
202058_	KPNA1	karyopherin alpha 1 (importin alpha 5)	BC0023	3836	H

s_at			74		
201735_s_at	CLCN3	chloride channel 3	NM_001829	1182	H
201777_s_at	KIAA0494	KIAA0494	BC002525	9813	H
201543_s_at	SAR1A	SAR1 gene homolog A (<i>S. cerevisiae</i>)	NM_020150	56681	H
201673_s_at	GYS1	glycogen synthase 1 (muscle)	NM_002103	2997	H
217140_s_at	VDAC1	voltage-dependent anion channel 1	AJ002428	7416	H
217272_s_at	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13	AJ001698	5275	H
213342_at	YAP1	Yes-associated protein 1, 65kDa	AI745185	10413	H
213457_at	MFHAS1	malignant fibrous histiocytoma amplified sequence 1	BF739959	9258	H
214681_at	GK	glycerol kinase	AI830490	2710	H
217043_s_at	MFN1	mitofusin 1	U95822	55669	H
208951_at	ALDH7A1	aldehyde dehydrogenase 7 family, member A1	BC002515	501	H

209080_x_at	GLRX3	glutaredoxin 3	AF118652	10539	H
221477_s_at	MGC5618	hypothetical protein MGC5618	BC001980	79099	H
222223_s_at	IL1F5	interleukin 1 family, member 5 (delta)	AF216693	26525	H
209653_at	KPNA4	karyopherin alpha 4 (importin alpha 3)	U93240	3840	H
209727_at	GM2A	GM2 ganglioside activator	M76477	2760	H
60528_at	PLA2G4B	phospholipase A2, group IVB (cytosolic)	N71116	8681	H
202525_at	PRSS8	protease, serine, 8	NM_002773	5652	H
203946_s_at	ARG2	arginase, type II	NM_001172	384	H
55081_at	MICALL1	MICAL-like 1	W46406	85377	H
202086_	MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	NM_002	4599	H

at			462		
212142_at	MCM4	minichromosome maintenance complex component 4	AI936566	4173	H
211016_x_at	HSPA4	heat shock 70kDa protein 4	BC002526	3308	H
206004_at	TGM3	transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase)	NM_003245	7053	H
212246_at	MCFD2	multiple coagulation factor deficiency 2	BE880828	90411	H
217192_s_at	PRDM1	PR domain containing 1, with ZNF domain	AL022067	639	H
221896_s_at	HIGD1A	HIG1 domain family, member 1A	BE739519	25994	H
201489_at	PPIF	peptidylprolyl isomerase F (cyclophilin F)	BC005020	10105	H
201583_s_at	SEC23B	Sec23 homolog B (<i>S. cerevisiae</i>)	NM_006363	10483	H
214698_at	ROD1	ROD1 regulator of differentiation 1 (<i>S. pombe</i>)	AW190873	9991	H
215438_x_at	GSPT1	G1 to S phase transition 1	BE906054	2935	H
209125_at			J00269	140446	
214580_x_at	KRT6A	keratin 6A	AL569511	3853	H
204203_at	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma	NM_001806	1054	H
207291_at	PRRG4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	NM_024081	79056	H
218009_s_at	PRC1	protein regulator of cytokinesis 1	NM_003981	9055	H
218039_	NUSAP1	nucleolar and spindle associated protein 1	NM_016	5120	H

at			359	3	
213988_s_at	SAT1	spermidine/spermine N1-acetyltransferase 1	BE971383	6303	H
216834_at	RGS1	regulator of G-protein signaling 1	S59049	5996	H
208901_s_at	TOP1	topoisomerase (DNA) I	J03250	7150	H
212460_at	C14orf147	chromosome 14 open reading frame 147	BE738425	171546	H
204146_at	RAD51A P1	RAD51 associated protein 1	BE966146	10635	H
204825_at	MELK	maternal embryonic leucine zipper kinase	NM_014791	9833	H
201888_s_at	IL13RA1	interleukin 13 receptor, alpha 1	NM_001560	3597	H
202934_at	HK2	hexokinase 2	AI761561	3099	H
201292_at	TOP2A	topoisomerase (DNA) II alpha 170kDa	AL561834	7153	H
201420_s_at	WDR77	WD repeat domain 77	BF975273	79084	H

219296_at	ZDHHC13	zinc finger, DHHC-type containing 13	NM_019028	54503	H
33304_at	ISG20	interferon stimulated exonuclease gene 20kDa	U88964	3669	H
218888_s_at	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2	AI335263	81831	H
219503_s_at	TMEM40	transmembrane protein 40	AI087937	55287	H
219657_s_at	KLF3	Kruppel-like factor 3 (basic)	AF285837	51274	H
200750_s_at	RAN	RAN, member RAS oncogene family	AF054183	5901	H
201303_at	EIF4A3	eukaryotic translation initiation factor 4A, isoform 3	NM_014740	9775	H
216841_s_at	SOD2	superoxide dismutase 2, mitochondrial	X15132	6648	H
217755_at	HN1	hematological and neurological expressed 1	AF060925	51155	H
209694_at	PTS	6-pyruvoyltetrahydropterin synthase	M97655	5805	H
216243_s_at	IL1RN	interleukin 1 receptor antagonist	BE563442	3557	H
203797_at	VSNL1	visinin-like 1	AF039555	7447	H
204026_s_at	ZWINT	ZW10 interactor	NM_007057	11130	H
201912_s_at	GSPT1	G1 to S phase transition 1	NM_002094	2935	H
203214_x_at	CDC2	cell division cycle 2, G1 to S and G2 to M	NM_001786	983	H

204733_at	KLK6	kallikrein-related peptidase 6	NM_002774	5653	H
213797_at	RSAD2	radical S-adenosyl methionine domain containing 2	AI337069	91543	H
208727_s_at	CDC42	cell division cycle 42 (GTP binding protein, 25kDa)	BC003682	998	H
220230_s_at	CYB5R2	cytochrome b5 reductase 2	NM_016229	51700	H
219225_at	PGBD5	piggyBac transposable element derived 5	NM_024554	79605	H
207602_at	TMPRSS11D	transmembrane protease, serine 11D	NM_004262	9407	H
212527_at	D15Wsu75e	DNA segment, Chr 15, Wayne State University 75, expressed	BF057059	27351	H

203128_at	SPTLC2	serine palmitoyltransferase, long chain base subunit 2	NM_004863	9517	H
204580_at	MMP12	matrix metalloproteinase 12 (macrophage elastase)	NM_002426	4321	H
215977_x_at	GK	glycerol kinase	X68285	2710	H
217167_x_at	GK	glycerol kinase	AJ252550	2710	H
214088_s_at	FUT3	fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group)	AW080549	2525	H
205660_at	OASL	2'-5'-oligoadenylate synthetase-like	NM_003733	8638	H
210797_s_at	OASL	2'-5'-oligoadenylate synthetase-like	AF063612	8638	H
219680_at	NLRX1	NLR family member X1	NM_024618	79671	H
218562_s_at	TMEM57	transmembrane protein 57	NM_018202	55219	H
219395_at	RBM35B	RNA binding motif protein 35B	NM_024939	80004	H
212141_at	MCM4	minichromosome maintenance complex component 4	AA604621	4173	H
203616_at	POLB	polymerase (DNA directed), beta	NM_002690	5423	H
204268_at	S100A2	S100 calcium binding protein A2	NM_005978	6273	H
214599_at	IVL	involucrin	NM_005547	3713	H
212432_at	GRPEL1	GrpE-like 1, mitochondrial (E. coli)	AL542571	80273	H

216641_s_at	LAD1	ladinin 1	U58994	3898	H
213796_at	SPRR1A	small proline-rich protein 1A	AI923984	6698	H
37152_at	PPARD	peroxisome proliferator-activated receptor delta	L07592	5467	H
205194_at	PSPH	phosphoserine phosphatase	NM_004577	5723	H
213427_at	RPP40	ribonuclease P/MRP 40kDa subunit	NM_006638	10799	H
214549_x_at	SPRR1A	small proline-rich protein 1A	NM_005987	6698	H
218880_at	FOSL2	FOS-like antigen 2	NM_024530	2355	H
210164_at	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	J03189	3002	H
213137_s_at	PTPN2	protein tyrosine phosphatase, non-receptor type 2	AI828880	5771	H
210608_s_at	FUT2	fucosyltransferase 2 (secretor status included)	BC001899	2524	H
209714_s_at	CDKN3	cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)	AF213033	1033	H
209800_at	KRT16	keratin 16 (focal non-epidermolytic palmoplantar keratoderma)	AF061812	3868	H

203213_at	CDC2	cell division cycle 2, G1 to S and G2 to M	AL524035	983	H
204331_s_at	MRPS12	mitochondrial ribosomal protein S12	AA587905	6183	H
209626_s_at	OSBPL3	oxysterol binding protein-like 3	AY008372	26031	H
218384_at	CARHSP1	calcium regulated heat stable protein 1, 24kDa	NM_014316	23589	H
204656_at	SHB	Src homology 2 domain containing adaptor protein B	AL138752	6461	H
215223_s_at	SOD2	superoxide dismutase 2, mitochondrial	W46388	6648	H
212729_at	DLG3	discs, large homolog 3 (neuroendocrine-dlg, Drosophila)	AI916274	1741	H
208992_s_at	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	BC000627	6774	H
217497_at	ECGF1	endothelial cell growth factor 1 (platelet-derived)	AW613387	1890	H
209126_x_at	KRT6B	keratin 6B	L42612	3854	H
218120_s_at	HMOX2	heme oxygenase (decycling) 2	NM_002134	3163	H
203755_at	BUB1B	BUB1 budding uninhibited by benzimidazoles 1 homolog beta (yeast)	NM_001211	701	H
206008_	TGM1	transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-	NM_000	7051	H

at		glutamyltransferase)	359		
219978_s_at	NUSAP1	nucleolar and spindle associated protein 1	NM_018454	51203	H
202018_s_at	LTF	lactotransferrin	NM_002343	4057	H
202070_s_at	IDH3A	isocitrate dehydrogenase 3 (NAD+) alpha	NM_005530	3419	H
204601_at	N4BP1	Nedd4 binding protein 1	NM_014664	9683	H
204822_at	TTK	TTK protein kinase	NM_003318	7272	H
205034_at	CCNE2	cyclin E2	NM_004702	9134	H
205909_at	POLE2	polymerase (DNA directed), epsilon 2 (p59 subunit)	NM_002692	5427	H
219037_at	RRP15	ribosomal RNA processing 15 homolog (S. cerevisiae)	NM_016052	51018	H
201872_s_at	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1	NM_002940	6059	H
219006_at	C6orf66	chromosome 6 open reading frame 66	NM_014165	29078	H
204244_s_at	DBF4	DBF4 homolog (S. cerevisiae)	NM_006716	10926	H
221305_s_at	UGT1A8	UDP glucuronosyltransferase 1 family, polypeptide A8	NM_019076	54576	H

214155_s_at	LARP4	La ribonucleoprotein domain family, member 4	AI743740	113251	H
217808_s_at	MAPKAP1	mitogen-activated protein kinase associated protein 1	NM_024117	79109	H
200731_s_at	PTP4A1	protein tyrosine phosphatase type IVA, member 1	AW165960	7803	H
204109_s_at	NFYA	nuclear transcription factor Y, alpha	BF445142	4800	H
202589_at	TYMS	thymidylate synthetase	NM_001071	7298	H
206108_s_at	SFRS6	splicing factor, arginine/serine-rich 6	NM_006275	6431	H
212612_at	RCOR1	REST corepressor 1	D31888	23186	H
216388_s_at	LTB4R	leukotriene B4 receptor	U33448	1241	H
205895_s_at	NOLC1	nucleolar and coiled-body phosphoprotein 1	NM_004741	9221	H
206653_at	POLR3G	polymerase (RNA) III (DNA directed) polypeptide G (32kD)	BF062139	10622	H
203622_s_at	PNO1	partner of NOB1 homolog (S. cerevisiae)	NM_020143	56902	H
218360_at	RAB22A	RAB22A, member RAS oncogene family	NM_020673	57403	H
219959_at	MOCOS	molybdenum cofactor sulfurase	NM_017947	55034	H
218782_s_at	ATAD2	ATPase family, AAA domain containing 2	NM_014109	29028	H
219787_s_at	ECT2	epithelial cell transforming sequence 2 oncogene	NM_018098	1894	H
205419_at	EBI2	Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor)	NM_004951	1880	H

205891_at	ADORA2B	adenosine A2b receptor	NM_000676	136	H
205287_s_at	TFAP2C	transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)	NM_003222	7022	H
206932_at	CH25H	cholesterol 25-hydroxylase	NM_003956	9023	H
218881_s_at	FOSL2	FOS-like antigen 2	NM_024530	2355	H
202431_s_at	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	NM_002467	4609	H
206102_at	GINS1	GINS complex subunit 1 (Psf1 homolog)	NM_021067	9837	H
210480_s_at	MYO6	myosin VI	U90236	4646	H
206667_s_at	SCAMP1	secretory carrier membrane protein 1	AF005037	9522	H

218748_s_at	EXOC5	exocyst complex component 5	NM_006544	10640	H
201337_s_at	VAMP3	vesicle-associated membrane protein 3 (cellubrevin)	NM_004781	9341	H
218549_s_at	FAM82B	family with sequence similarity 82, member B	AK000672	51115	H
206134_at	ADAMDEC1	ADAM-like, decysin 1	NM_014479	27299	H
201683_x_at	TOX4	TOX high mobility group box family member 4	BE783632	9878	H
214059_at	IFI44	interferon-induced protein 44	BE049439	10561	H
211090_s_at	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)	Z25435	8899	H
201775_s_at	ATPAF1	ATP synthase mitochondrial F1 complex assembly factor 1	AA676790	64756	H
203087_s_at	KIF2A	kinesin heavy chain member 2A	NM_004520	3796	H
213875_x_at	C6orf62	chromosome 6 open reading frame 62	BG252842	81688	H
217777_s_at	PTPLAD1	protein tyrosine phosphatase-like A domain containing 1	NM_016395	51495	H
200604_s_at	PRKAR1A	protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	M18468	5573	H
200729_s_at	ACTR2	ARP2 actin-related protein 2 homolog (yeast)	BE566290	10097	H
203007_x_at	LYPLA1	lysophospholipase I	AF077198	10434	H
208653_s_at	CD164	CD164 molecule, sialomucin	AF299343	8763	H
210915_x_at	TRBC1	T cell receptor beta constant 1	M15564	28639	H
212588_at	PTPRC	protein tyrosine phosphatase, receptor type, C	Y00062	5788	H

201299_s_at	MOBKL1 B	MOB1, Mps One Binder kinase activator-like 1B (yeast)	NM_018 221	5523 3	H
201399_s_at	TRAM1	translocation associated membrane protein 1	BC0006 87	2347 1	H
200727_s_at	ACTR2	ARP2 actin-related protein 2 homolog (yeast)	AA6995 83	1009 7	H
201295_s_at	WSB1	WD repeat and SOCS box-containing 1	BF1118 21	2611 8	H
220386_s_at	EML4	echinoderm microtubule associated protein like 4	NM_019 063	2743 6	H
221081_s_at	DENND2 D	DENN/MADD domain containing 2D	NM_024 901	7996 1	H
219492_at	CHIC2	cysteine-rich hydrophobic domain 2	NM_012 110	2651 1	H
220330_s_at	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1	NM_022 136	6409 2	H
214483_s_at	ARFIP1	ADP-ribosylation factor interacting protein 1 (arfaptin 1)	AF1244 89	2723 6	H
214786_at	MAP3K1	mitogen-activated protein kinase kinase kinase 1	AA3613 61	4214	H
212835_at	KIAA015 7	KIAA0157	AA7776 41	2317 2	H
213975_s_at	LYZ	lysozyme (renal amyloidosis)	AV7119 04	4069	H
212008_at	UBXD2	UBX domain containing 2	N29889	2319 0	H
212409_s_at	TOR1AIP 1	torsin A interacting protein 1	AK0216 13	2609 2	H
210959_s_at	SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	AF1131 28	6715	H

211559_s_at	CCNG2	cyclin G2	L49506	901	H
209284_s_at	C3orf63	chromosome 3 open reading frame 63	AI922509	23272	H
210148_at	HIPK3	homeodomain interacting protein kinase 3	AF305239	10114	H
207339_s_at	LTB	lymphotoxin beta (TNF superfamily, member 3)	NM_002341	4050	H
207549_x_at	CD46	CD46 molecule, complement regulatory protein	NM_002389	4179	H
205836_s_at	YTHDC2	YTH domain containing 2	NM_022828	64848	H
207238_s_at	PTPRC	protein tyrosine phosphatase, receptor type, C	NM_002838	5788	H
205269_at	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	AI123251	3937	H
205732_s_at	NCOA2	nuclear receptor coactivator 2	NM_006540	10499	H
204174_at	ALOX5AP	arachidonate 5-lipoxygenase-activating protein	NM_001629	241	H
204716_at	CCDC6	coiled-coil domain containing 6	NM_005436	8030	H
204007_at	FCGR3B	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)	J04162	2215	H

204057_at	IRF8	interferon regulatory factor 8	AI073984	3394	H
203553_s_at	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	NM_006575	11183	H
203915_at	CXCL9	chemokine (C-X-C motif) ligand 9	NM_002416	4283	H
202647_s_at	NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog	NM_002524	4893	H

203416_at	CD53	CD53 molecule	NM_000560	963	H
201856_s_at	ZFR	zinc finger RNA binding protein	BC000376	51663	H
202516_s_at	DLG1	discs, large homolog 1 (Drosophila)	NM_004087	1739	H
217496_s_at	IDE	insulin-degrading enzyme	AA918442	3416	H
217521_at			N54942		
211574_s_at	CD46	CD46 molecule, complement regulatory protein	D84105	4179	H
212720_at	PAPOLA	poly(A) polymerase alpha	AI670847	10914	H
209629_s_at	NXT2	nuclear transport factor 2-like export factor 2	AK023289	55916	H
211547_s_at	PAFAH1B1	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa	L13387	5048	H
204393_s_at	ACPP	acid phosphatase, prostate	NM_001099	55	H
205159_at	CSF2RB	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	AV756141	1439	H
211668_s_at	PLAU	plasminogen activator, urokinase	K03226	5328	H

213470_s_at	HNRPH1	heterogeneous nuclear ribonucleoprotein H1 (H)	BF983406	3187	H
205401_at	AGPS	alkylglycerone phosphate synthase	NM_003659	8540	H
210154_at	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial	M55905	4200	H
202654_x_at	7-Mar	membrane-associated ring finger (C3HC4) 7	NM_022826	64844	H
202479_s_at	TRIB2	tribbles homolog 2 (Drosophila)	BC002637	28951	H
218465_at	TMEM33	transmembrane protein 33	NM_018126	55161	H
219017_at	ETNK1	ethanolamine kinase 1	NM_018638	55500	H
203123_s_at	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	AU154469	4891	H
205170_at	STAT2	signal transducer and activator of transcription 2, 113kDa	NM_005419	6773	H
202089_s_at	SLC39A6	solute carrier family 39 (zinc transporter), member 6	NM_012319	25800	H
213292_s_at	SNX13	sorting nexin 13	AA908770	23161	H
209723_at	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9	BC002538	5272	H
203535_at	S100A9	S100 calcium binding protein A9	NM_002965	6280	H
201571_s_at	DCTD	dCMP deaminase	AI656493	1635	H
202918_s_at	MOBKL3	MOB1, Mps One Binder kinase activator-like 3 (yeast)	AF151853	25843	H
219850_s_at	EHF	ets homologous factor	AF203977	26298	H
201298_s_at	MOBKL1B	MOB1, Mps One Binder kinase activator-like 1B (yeast)	BC003398	55233	H
201504_at	TSN	translin	AI43530	7247	H

s_at			2		
211801_x_at	MFN1	mitofusin 1	AF329637	55669	H
205543_at	HSPA4L	heat shock 70kDa protein 4-like	NM_014278	22824	H
206094_x_at	UGT1A6	UDP glucuronosyltransferase 1 family, polypeptide A6	NM_001072	54578	H
218884_s_at	GUF1	GUF1 GTPase homolog (<i>S. cerevisiae</i>)	AK025248	60558	H
213872_at	C6orf62	chromosome 6 open reading frame 62	BE465032	81688	H
217821_s_at	WBP11	WW domain binding protein 11	NM_016312	51729	H
204941_s_at	ALDH3B2	aldehyde dehydrogenase 3 family, member B2	AA071510	222	H
209000_s_at	8-Sep	septin 8	BC001329	23176	H
203265_s_at	MAP2K4	mitogen-activated protein kinase kinase 4	NM_003010	6416	H

210052_s_at	TPX2	TPX2, microtubule-associated, homolog (<i>Xenopus laevis</i>)	AF098158	22974	H
201259_s_at	SYPL1	synaptophysin-like 1	AI768845	6856	H
202874_s_at	ATP6V1C1	ATPase, H ⁺ transporting, lysosomal 42kDa, V1 subunit C1	NM_001695	528	H
205916_at	S100A7	S100 calcium binding protein A7	NM_002963	6278	H
208097_s_at	TXNDC1	thioredoxin domain containing 1	NM_030755	81542	H
221497_x_at	EGLN1	egl nine homolog 1 (<i>C. elegans</i>)	BC005369	54583	H
212763_at	CAMSAP1L1	calmodulin regulated spectrin-associated protein 1-like 1	AW593213	23271	H
215150_at	YOD1	YOD1 OTU deubiquinating enzyme 1 homolog (<i>S. cerevisiae</i>)	AF090896	55432	H
216652_s_at	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)	AL137673	1810	H
221220_s_at	SCYL2	SCY1-like 2 (<i>S. cerevisiae</i>)	NM_017988	55681	H
208596_s_at	UGT1A3	UDP glucuronosyltransferase 1 family, polypeptide A3	NM_019093	54659	H

212194_s_at	TM9SF4	transmembrane 9 superfamily protein member 4	AI418892	9777	H
220775_s_at	UEVLD	UEV and lactate/malate dehydrogenase domains	NM_018314	55293	H
202166_s_at	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	NM_006241	5504	H
218340_s_at	UBE1L2	ubiquitin-activating enzyme E1-like 2	NM_018227	55236	H
210285_x_at	WTAP	Wilms tumor 1 associated protein	BC000383	9589	H
201130_s_at	CDH1	cadherin 1, type 1, E-cadherin (epithelial)	NM_004360	999	H
208853_s_at	CANX	calnexin	L18887	821	H
215236_s_at	PICALM	phosphatidylinositol binding clathrin assembly protein	AV721177	8301	H
217301_x_at	RBBP4	retinoblastoma binding protein 4	X71810	5928	H

216205_s_at	MFN2	mitofusin 2	AK021947	9927	H
216689_x_at	ARHGAP1	Rho GTPase activating protein 1	U62794	392	H
206429_at	F2RL1	coagulation factor II (thrombin) receptor-like 1	NM_005242	2150	H
208351_s_at	MAPK1	mitogen-activated protein kinase 1	NM_002745	5594	H

211194_s_at	TP63	tumor protein p63	AB010153	8626	H
211195_s_at	TP63	tumor protein p63	AF116771	8626	H
212568_s_at	DLAT	dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex)	BF978872	1737	H
214553_s_at	ARPP-19	cyclic AMP phosphoprotein, 19 kD	NM_006628	10776	H
202816_s_at	SS18	synovial sarcoma translocation, chromosome 18	AW292882	6760	H
211536_x_at	MAP3K7	mitogen-activated protein kinase kinase kinase 7	AB009358	6885	H
202199_s_at	SRPK1	SFRS protein kinase 1	AW082913	6732	H

202543_s_at	GMFB	glia maturation factor, beta	BC005359	2764	H
202917_s_at	S100A8	S100 calcium binding protein A8	NM_002964	6279	H
204426_at	TMED2	transmembrane emp24 domain trafficking protein 2	NM_006815	10959	H
201688_s_at	TPD52	tumor protein D52	BG389015	7163	H
201992_s_at	KIF5B	kinesin family member 5B	NM_004521	3799	H
201211_s_at	DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	NM_001356	1654	H
201485_s_at	RCN2	reticulocalbin 2, EF-hand calcium binding domain	BC004892	5955	H
200890_s_at	SSR1	signal sequence receptor, alpha (translocon-associated protein alpha)	NM_003144	6745	H
200892_s_at	SFRS10	splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila)	BC000451	6434	H
220800_s_at	TMOD3	tropomodulin 3 (ubiquitous)	NM_014547	29766	H
200607_s_at	RAD21	RAD21 homolog (S. pombe)	BG289967	5885	H
200641_s_at	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	BC003623	7534	H
218036_x_at	NMD3	NMD3 homolog (S. cerevisiae)	AL520719	51068	H
218474_s_at	KCTD5	potassium channel tetramerisation domain containing 5	NM_018992	54442	H
213548_s_at	CDV3	CDV3 homolog (mouse)	BG257762	55573	H
215125_s_at	UGT1A6	UDP glucuronosyltransferase 1 family, polypeptide A6	AV691323	54578	H

212514_x_at	DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	R60068	1654	H
212800_at	STX6	syntaxin 6	AI740832	10228	H
210716_s_at	CLIP1	CAP-GLY domain containing linker protein 1	M97501	6249	H
212107_s_at	DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	BE561014	1660	H
208750_s_at	ARF1	ADP-ribosylation factor 1	AF052179	375	H
208867_s_at	CSNK1A1	casein kinase 1, alpha 1	AF119911	1452	H
201768_s_at	CLINT1	clathrin interactor 1	BC004467	9685	H
202129_s_at	RIOK3	RIO kinase 3 (yeast)	AW006290	8780	H
200722_s_at	CAPRIN1	cell cycle associated protein 1	BG258784	4076	H
201742_x_at	SFRS1	splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate splicing factor)	M69040	6426	H
214007_s_at	TWF1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	AW665024	5756	H
215707_s_at	PRNP	prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)	AV725328	5621	H
204427_s_at	TMED2	transmembrane emp24 domain trafficking protein 2	NM_006815	10959	H

206383_s_at	G3BP2	GTPase activating protein (SH3 domain) binding protein 2	NM_012297	9908	H
202270_at	GBP1	guanylate binding protein 1, interferon-inducible, 67kDa	NM_002053	2633	H
202583_s_at	RANBP9	RAN binding protein 9	NM_005493	10048	H
219399_at	LIN7C	lin-7 homolog C (C. elegans)	NM_018362	55327	H
221770_at	RPE	ribulose-5-phosphate-3-epimerase	BE964473	6120	H
208840_s_at	G3BP2	GTPase activating protein (SH3 domain) binding protein 2	AB014560	9908	H
209895_at	PTPN11	protein tyrosine phosphatase, non-receptor type 11 (Noonan syndrome 1)	AF119855	5781	H
213461_at	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	AI800983	11051	H
214975_s_at	MTMR1	myotubularin related protein 1	AK001816	8776	H

215177_s_at	ITGA6	integrin, alpha 6	AV733308	3655	H
204533_at	CXCL10	chemokine (C-X-C motif) ligand 10	NM_001565	3627	H
205763_s_at	DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	NM_006773	8886	H
200769_s_at	MAT2A	methionine adenosyltransferase II, alpha	BC001686	4144	H
201169_s_at	BHLHB2	basic helix-loop-helix domain containing, class B, 2	BG326045	8553	H

GENES UP-REGULATED BY ETANERCEPT IN RESPONDERS

R_1vs0	Log2 Fold change between Wk1 vs Wk0 in Responders
R_2vs0	Log2 Fold change between Wk2 vs Wk0 in Responders
R_4vs0	Log2 Fold change between Wk4 vs Wk0 in Responders
R_12vs0	Log2 Fold change between Wk12 vs Wk0 in Responders
R_NL	Mean expression value estimate (Log2) for Responders in NL skin
R_0	Mean expression value estimate (Log2) for Responders in LS skin
R_1	Mean expression value estimate (Log2) for Responders in LS at Wk 1
R_2	Mean expression value estimate (Log2) for Responders in LS at Wk 2
R_4	Mean expression value estimate (Log2) for Responders in LS at Wk 4
R_12	Mean expression value estimate (Log2) for Responders in LS at Wk 12
Cluster	Final cluster membership

Probe	Symbol	Description	Gene
205969_at	AADAC	arylacetamide deacetylase (esterase)	NM_086
209686_at	S100B	S100 calcium binding protein B	BC066
221019_s_at	COLEC12	collectin sub-family member 12	NM_781
218858_at	DEPDC6	DEP domain containing 6	NM_783
205987_at	CD1C	CD1c molecule	NM_765
201417_at	SOX4	SRY (sex determining region Y)-box 4	AL179
203910_at	ARHGAP29	Rho GTPase activating protein 29	NM_815
204112_s_at	HNMT	histamine N-methyltransferase	NM_895
213566_at	RNASE6	ribonuclease, RNase A family, k6	NM_615
211712_s_at	ANXA9	annexin A9	BC030
213456_at	SOSTDC1	sclerostin domain containing 1	AI920
211548_	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)	J055

s_at			
215784_at	CD1E	CD1e molecule	AA311
203914_x_at	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)	NM_860
217889_s_at	CYBRD1	cytochrome b reductase 1	AL193
203300_x_at	AP1S2	adaptor-related protein complex 1, sigma 2 subunit	NM_916
207173_x_at	CDH11	cadherin 11, type 2, OB-cadherin (osteoblast)	D21
212385_at	TCF4	transcription factor 4	AU126
214830_at	SLC38A6	solute carrier family 38, member 6	AI530
207172_s_at	CDH11	cadherin 11, type 2, OB-cadherin (osteoblast)	D21
210875_s_at	ZEB1	zinc finger E-box binding homeobox 1	U12
212956_at	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	AI344
213415_at	CLIC2	chloride intracellular channel 2	AI768
207265_s_at	KDELR3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	NM_657
210261_at	KCNK2	potassium channel, subfamily K, member 2	AF011
202311_s_at	COL1A1	collagen, type I, alpha 1	AI741

203325_s_at	COL5A1	collagen, type V, alpha 1	AI139
214163_at	C1orf41	chromosome 1 open reading frame 41	AV796
207496_at	MS4A2	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide)	NM_139
213959_s_at	RPGRIP1L	RPGRIP1-like	BF597
202319_at	SENP6	SUMO1/sentrin specific peptidase 6	NM_571
209012_at	TRIO	triple functional domain (PTPRF interacting)	AV792
221730_at	COL5A2	collagen, type V, alpha 2	AL535
202664_at	WIPF1	WAS/WASL interacting protein family, member 1	AWC22
204114_at	NID2	nidogen 2 (osteonidogen)	NM_361
212489_at	COL5A1	collagen, type V, alpha 1	AI988
221729_at	COL5A2	collagen, type V, alpha 2	AL535
215446_s_at	LOX	lysyl oxidase	L168
218006_s_at	ZNF22	zinc finger protein 22 (KOX 15)	AA771
203988_s_at	FUT8	fucosyltransferase 8 (alpha (1,6) fucosyltransferase)	NM_480

213304_at	KIAA0423	KIAA0423	AI822
209568_s_at	RGL1	ral guanine nucleotide dissociation stimulator-like 1	AF179
211734_s_at	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide	BC012
215536_at	HLA-DQB2	major histocompatibility complex, class II, DQ beta 2	X873
203485_at	RTN1	reticulon 1	NM_136
210325_at	CD1A	CD1a molecule	M28
218633_x_at	ABHD10	abhydrolase domain containing 10	NM_394
220124_at	GAN	giant axonal neuropathy (gigaxonin)	NM_041
209485_s_at	OSBPL1A	oxysterol binding protein-like 1A	AF214
213186_at	DZIP3	zinc finger DAZ interacting protein 3	BG505
218901_at	PLSCR4	phospholipid scramblase 4	NM_353
201990_s_at	CREBL2	cAMP responsive element binding protein-like 2	NM_310
206637_at	P2RY14	purinergic receptor P2Y, G-protein coupled, 14	NM_879
218005_at	ZNF22	zinc finger protein 22 (KOX 15)	AA771
210198_s_at	PLP1	proteolipid protein 1 (Pelizaeus-Merzbacher disease, spastic paraplegia 2, uncomplicated)	BC065
212798_s_at	ANKMY2	ankyrin repeat and MYND domain containing 2	AK089
203680_at	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta	NM_736
204290_s_at	ALDH6A1	aldehyde dehydrogenase 6 family, member A1	NM_589

220428_at	CD207	CD207 molecule, langerin	NM_717
201116_s_at	CPE	carboxypeptidase E	NM_873
203575_at	CSNK2A2	casein kinase 2, alpha prime polypeptide	NM_896
203758_at	CTSO	cathepsin O	AV784
203185_at	RASSF2	Ras association (RalGDS/AF-6) domain family 2	NM_737
210757_x_at	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	AF198
207719_x_at	CEP170	centrosomal protein 170kDa	NM_812
210658_s_at	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	BC084
36829_at	PER1	period homolog 1 (Drosophila)	AF091
215294_s_at	SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	AK026
204749_at	NAP1L3	nucleosome assembly protein 1-like 3	NM_538
205139_s_at	UST	uronyl-2-sulfotransferase	NM_715
212667_at	SPARC	secreted protein, acidic, cysteine-rich (osteonectin)	AL522
212713_at	MFAP4	microfibrillar-associated protein 4	R72
212327_at	LIMCH1	LIM and calponin homology domains 1	AK015
212387_at	TCF4	transcription factor 4	BG471

221249_s_at	FAM117A	family with sequence similarity 117, member A	NM_802
221272_s_at	C1orf21	chromosome 1 open reading frame 21	NM_806
203146_s_at	GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	NM_470
203498_at	RCAN2	regulator of calcineurin 2	NM_822
210495_x_at	FN1	fibronectin 1	AF195
210517_s_at	AKAP12	A kinase (PRKA) anchor protein (gravin) 12	AB076
209897_s_at	SLIT2	slit homolog 2 (Drosophila)	AF085
210135_s_at	SHOX2	short stature homeobox 2	AF054
208609_s_at	TNXB	tenascin XB	NM_105
208741_at	SAP18	Sin3A-associated protein, 18kDa	AW256
206030_at	ASPA	aspartoacylase (Canavan disease)	NM_049
207996_s_at	C18orf1	chromosome 18 open reading frame 1	NM_338
205399_at	DCLK1	doublecortin-like kinase 1	NM_734

205529_s_at	RUNX1T1	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	NM_349
204719_at	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8	NM_168
204834_at	FGL2	fibrinogen-like 2	NM_682
203404_at	ARMCX2	armadillo repeat containing, X-linked 2	NM_782
203417_at	MFAP2	microfibrillar-associated protein 2	NM_459
203296_s_at	ATP1A2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 (+) polypeptide	NM_702
203329_at	PTPRM	protein tyrosine phosphatase, receptor type, M	NM_845
202202_s_at	LAMA4	laminin, alpha 4	NM_290
202242_at	TSPAN7	tetraspanin 7	NM_615
218918_at	MAN1C1	mannosidase, alpha, class 1C, member 1	NM_379
43427_at	ACACB	acetyl-Coenzyme A carboxylase beta	AI978

205381_at	LRRC17	leucine rich repeat containing 17	NM_824
205518_s_at	CMAH	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuramate monooxygenase)	NM_570
205226_at	PDGFRL	platelet-derived growth factor receptor-like	NM_207
205908_s_at	OMD	osteomodulin	NM_014
207092_at	LEP	leptin (obesity homolog, mouse)	NM_230
207233_s_at	MITF	microphthalmia-associated transcription factor	NM_248
203494_s_at	CEP57	centrosomal protein 57kDa	NM_679
203571_s_at	C10orf116	chromosome 10 open reading frame 116	BC071
200795_at	SPARCL1	SPARC-like 1 (mast9, hevin)	NM_684
200885_at	PPM1J	protein phosphatase 1J (PP2C domain containing)	NM_167
203817_at	GUCY1B3	guanylate cyclase 1, soluble, beta 3	W93
209070_s_at	RGS5	regulator of G-protein signaling 5	AI187
203088_at	FBLN5	fibulin 5	NM_329
203799_at	CD302	CD302 molecule	NM_880
221825_at	ANGEL2	angel homolog 2 (Drosophila)	BE641
221834_at	LONP2	lon peptidase 2, peroxisomal	AV732
218309_at	CAMK2N1	calcium/calmodulin-dependent protein kinase II inhibitor 1	NM_584
218353_at	RGS5	regulator of G-protein signaling 5	NM_226
213496_at	LPPR4	plasticity related gene 1	AW5

at			63
214012_at	ARTS-1	type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	BE538
213033_s_at	NFIB	nuclear factor I/B	A189
213050_at	COBL	cordon-bleu homolog (mouse)	AA537
210664_s_at	TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	AF034
210986_s_at	TPM1	tropomyosin 1 (alpha)	Z247
217757_at	A2M	alpha-2-macroglobulin	NM014
217867_x_at	BACE2	beta-site APP-cleaving enzyme 2	AF132
214475_x_at	CAPN3	calpain 3, (p94)	AF164
201539_s_at	FHL1	four and a half LIM domains 1	U29
37462_i_at	SF3A2	splicing factor 3a, subunit 2, 66kDa	L219
204894_s_at	AOC3	amine oxidase, copper containing 3 (vascular adhesion protein 1)	AF006

204940_at	PLN	phospholamban	NM_667
212677_s_at	CEP68	centrosomal protein 68kDa	BG5_81
212695_at	CRY2	cryptochrome 2 (photolyase-like)	AB0_58
210230_at	LOC728965	hypothetical protein LOC728965	BC0_29
210469_at	DLG5	discs, large homolog 5 (Drosophila)	BC0_15
204468_s_at	TIE1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1	NM_424
204482_at	CLDN5	claudin 5 (transmembrane protein deleted in velocardiofacial syndrome)	NM_277
202861_at	PER1	period homolog 1 (Drosophila)	NM_616
202920_at	ANK2	ankyrin 2, neuronal	NM_148
209169_at	GPM6B	glycoprotein M6B	N63
209184_s_at	IRS2	insulin receptor substrate 2	AF0_10
209156_s_at	COL6A2	collagen, type VI, alpha 2	AY0_08

209167_at	GPM6B	glycoprotein M6B	AI410
209071_s_at	RGS5	regulator of G-protein signaling 5	AF170
209074_s_at	FAM107A	family with sequence similarity 107, member A	AF053
209005_at	FBXL5	F-box and leucine-rich repeat protein 5	AF123
209047_at	AQP1	aquaporin 1 (Colton blood group)	AL591
208981_at	PECAM1	platelet/endothelial cell adhesion molecule (CD31 antigen)	AA701
208982_at	PECAM1	platelet/endothelial cell adhesion molecule (CD31 antigen)	M37
208963_x_at	FADS1	fatty acid desaturase 1	AL560
208978_at	CRIP2	cysteine-rich protein 2	U36
208942_s_at	TLOC1	translocation protein 1	U93
208962_s_at	FADS1	fatty acid desaturase 1	BE552
208806_at	CHD3	chromodomain helicase DNA binding protein 3	BE342
208913_at	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	AA860
208791_at	CLU	clusterin	M25
208792_s_at	CLU	clusterin	M25
208789_at	PTRF	polymerase I and transcript release factor	BC095

208790_s_at	PTRF	polymerase I and transcript release factor	AF393
208740_at	SAP18	Sin3A-associated protein, 18kDa	BF550
208763_s_at	TSC22D3	TSC22 domain family, member 3	AL191
208712_at	CCND1	cyclin D1	M73
208723_at	USP11	ubiquitin specific peptidase 11	BC050
208158_s_at	OSBPL1A	oxysterol binding protein-like 1A	NM_030
208711_s_at	CCND1	cyclin D1	BC076

207966_s_at	GLG1	golgi apparatus protein 1	NM_201
208131_s_at	PTGIS	prostaglandin I2 (prostacyclin) synthase	NM_961
207955_at	CCL27	chemokine (C-C motif) ligand 27	NM_664
207961_x_at	MYH11	myosin, heavy chain 11, smooth muscle	NM_870
207317_s_at	CASQ2	calsequestrin 2 (cardiac muscle)	NM_232
207760_s_at	NCOR2	nuclear receptor co-repressor 2	NM_312
207283_at	RPL23AP13	ribosomal protein L23a pseudogene 13	NM_217
207302_at	SGCG	sarcoglycan, gamma (35kDa dystrophin-associated glycoprotein)	NM_231
206702_at	TEK	TEK tyrosine kinase, endothelial (venous malformations, multiple cutaneous and mucosal)	NM_459
206898_at	CDH19	cadherin 19, type 2	NM_153
206548_at	hCG_1776259	hypothetical protein FLJ23556	NM_880
206595_at	CST6	cystatin E/M	NM_323

206194_ at	HOXC6	homeobox C6	AW2 98
206509_ at	PIP	prolactin-induced protein	NM_ 652
206059_ at	ZNF91	zinc finger protein 91	NM_ 430
206170_ at	ADRB2	adrenergic, beta-2-, receptor, surface	NM_ 024
205883_ at	ZBTB16	zinc finger and BTB domain containing 16	NM_ 006
205923_ at	RELN	reelin	NM_ 045
205765_ at	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5	NM_ 777
205878_ at	POU6F1	POU class 6 homeobox 1	NM_ 702
205726_ at	DIAPH2	diaphanous homolog 2 (Drosophila)	NM_ 729
205730_ s_at	ABLIM3	actin binding LIM protein family, member 3	NM_ 945
205613_ at	SYT17	synaptotagmin XVII	NM_ 524
205619_ s_at	MEOX1	mesenchyme homeobox 1	NM_ 527

205547_s_at	TAGLN	transgelin	NM_186
205583_s_at	CXorf45	chromosome X open reading frame 45	NM_810
205471_s_at	DACH1	dachshund homolog 1 (Drosophila)	NM_392
205478_at	PPP1R1A	protein phosphatase 1, regulatory (inhibitor) subunit 1A	NM_741
205384_at	FXYP1	FXYP domain containing ion transport regulator 1 (phospholemman)	NM_031
205463_s_at	PDGFA	platelet-derived growth factor alpha polypeptide	NM_607
205330_at	MN1	meningioma (disrupted in balanced translocation) 1	NM_430
205383_s_at	ZBTB20	zinc finger and BTB domain containing 20	NM_642
205277_at	PRDM2	PR domain containing 2, with ZNF domain	NM_231
205315_s_at	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	NM_750
205236_x_at	SOD3	superoxide dismutase 3, extracellular	NM_102
205258_at	INHBB	inhibin, beta B	NM_193
205168_at	DDR2	discoidin domain receptor family, member 2	NM_182
205198_s_at	ATP7A	ATPase, Cu ⁺⁺ transporting, alpha polypeptide (Menkes syndrome)	NM_052

205110_s_at	FGF13	fibroblast growth factor 13	NM_114
205132_at	ACTC1	actin, alpha, cardiac muscle 1	NM_159
205073_at	CYP2J2	cytochrome P450, family 2, subfamily J, polypeptide 2	NM_775
205081_at	CRIP1	cysteine-rich protein 1 (intestinal)	NM_311
205006_s_at	NMT2	N-myristoyltransferase 2	NM_808
205011_at	LOH11CR2 A	loss of heterozygosity, 11, chromosomal region 2, gene A	NM_622
204964_s_at	SSPN	sarcospan (Kras oncogene-associated gene)	AL156
204985_s_at	TRAPPC6A	trafficking protein particle complex 6A	NM_108
204838_s_at	MLH3	mutL homolog 3 (E. coli)	NM_381
204948_s_at	FST	follistatin	NM_409
204797_s_at	EML1	echinoderm microtubule associated protein like 1	NM_434
204800_s_at	DHRS12	dehydrogenase/reductase (SDR family) member 12	NM_705
204718_at	EPHB6	EPH receptor B6	NM_445
204788_s_at	PPOX	protoporphyrinogen oxidase	NM_309
204497_at	ADCY9	adenylate cyclase 9	AB092

204610_s_at	CCDC85B	coiled-coil domain containing 85B	NM_848
204431_at	TLE2	transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila)	NM_260
204442_x_at	LTBP4	latent transforming growth factor beta binding protein 4	NM_573
204303_s_at	KIAA0427	KIAA0427	NM_772
204422_s_at	FGF2	fibroblast growth factor 2 (basic)	NM_006
204257_at	FADS3	fatty acid desaturase 3	NM_727
204288_s_at	SORBS2	sorbin and SH3 domain containing 2	NM_069
204151_x_at	AKR1C1	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	NM_353
204248_at	GNA11	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)	NM_067

204106_at	TESK1	testis-specific kinase 1	NM_285
204134_at	PDE2A	phosphodiesterase 2A, cGMP-stimulated	NM_599
204066_s_at	CENTG2	centaurin, gamma 2	NM_914
204069_at	MEIS1	Meis homeobox 1	NM_398
203929_s_at	MAPT	microtubule-associated protein tau	AI059
204021_s_at	PURA	purine-rich element binding protein A	NM_859
203872_at	ACTA1	actin, alpha 1, skeletal muscle	NM_100
203906_at	IQSEC1	IQ motif and Sec7 domain 1	AI655
203851_at	IGFBP6	insulin-like growth factor binding protein 6	NM_178
203865_s_at	ADARB1	adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)	NM_833
203813_s_at	SLIT3	slit homolog 3 (Drosophila)	AB038
203825_at	BRD3	bromodomain containing 3	NM_371
203729_at	EMP3	epithelial membrane protein 3	NM_425
203756_at	ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17	NM_786
203706_s_at	FZD7	frizzled homolog 7 (Drosophila)	NM_507

203723_at	ITPKB	inositol 1,4,5-trisphosphate 3-kinase B	NM_221
203697_at	FRZB	frizzled-related protein	U919
203698_s_at	FRZB	frizzled-related protein	U919
203632_s_at	GPRC5B	G protein-coupled receptor, family C, group 5, member B	NM_235
203685_at	BCL2	B-cell CLL/lymphoma 2	NM_633
203521_s_at	ZNF318	zinc finger protein 318	NM_345
203628_at	IGF1R	insulin-like growth factor 1 receptor	H051
203424_s_at	IGFBP5	insulin-like growth factor binding protein 5	AW148
203509_at	SORL1	sortilin-related receptor, L(DLR class) A repeats-containing	NM_105
203355_s_at	PSD3	pleckstrin and Sec7 domain containing 3	NM_310
203382_s_at	APOE	apolipoprotein E	NM_041

203249_at	EZH1	enhancer of zeste homolog 1 (Drosophila)	AB086
203304_at	BAMBI	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)	NM_342
203151_at	MAP1A	microtubule-associated protein 1A	NM_373
203188_at	B3GNT1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	NM_876
203071_at	SEMA3B	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	NM_636
203081_at	CTNNBIP1	catenin, beta interacting protein 1	NM_248
203020_at	RABGAP1L	RAB GTPase activating protein 1-like	NM_857
203065_s_at	CAV1	caveolin 1, caveolae protein, 22kDa	NM_753
202982_s_at	ACOT2	acyl-CoA thioesterase 2	NM_821
203006_at	INPP5A	inositol polyphosphate-5-phosphatase, 40kDa	NM_539
202908_at	WFS1	Wolfram syndrome 1 (wolframin)	NM_005
202975_s_at	RHOBTB3	Rho-related BTB domain containing 3	N21

202759_s_at	PALM2-AKAP2	PALM2-AKAP2 protein	BE867
202796_at	SYNPO	synaptopodin	NM_286
202724_s_at	FOXO1	forkhead box O1	NM_015
202732_at	PKIG	protein kinase (cAMP-dependent, catalytic) inhibitor gamma	NM_066
202669_s_at	EFNB2	ephrin-B2	U16
202723_s_at	FOXO1	forkhead box O1	AW198
202519_at	MLXIP	MLX interacting protein	NM_938
202548_s_at	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	NM_899
202500_at	DNAJB2	DnaJ (Hsp40) homolog, subfamily B, member 2	NM_736
202512_s_at	ATG5	ATG5 autophagy related 5 homolog (S. cerevisiae)	AK099
202468_s_at	CTNNAL1	catenin (cadherin-associated protein), alpha-like 1	NM_798
202481_at	DHRS3	dehydrogenase/reductase (SDR family) member 3	NM_753
202328_s_at	PKD1	polycystic kidney disease 1 (autosomal dominant)	NM_296

202368_s_at	TRAM2	translocation associated membrane protein 2	NM_288
202273_at	PDGFRB	platelet-derived growth factor receptor, beta polypeptide	NM_609
202289_s_at	TACC2	transforming, acidic coiled-coil containing protein 2	NM_997
202250_s_at	WDR42A	WD repeat domain 42A	NM_726
202262_x_at	DDAH2	dimethylarginine dimethylaminohydrolase 2	NM_974
202196_s_at	DKK3	dickkopf homolog 3 (<i>Xenopus laevis</i>)	NM_253
202222_s_at	DES	desmin	NM_927
202177_at	GAS6	growth arrest-specific 6	NM_820
202191_s_at	GAS7	growth arrest-specific 7	BE4_87
202054_s_at	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	NM_382

202112_at	VWF	von Willebrand factor	NM_552
202017_at	EPHX1	epoxide hydrolase 1, microsomal (xenobiotic)	NM_120
202022_at	ALDOC	aldolase C, fructose-bisphosphate	NM_165
201917_s_at	SLC25A36	solute carrier family 25, member 36	NM_155
201952_at	ALCAM	activated leukocyte cell adhesion molecule	AA1_21
201810_s_at	SH3BP5	SH3-domain binding protein 5 (BTK-associated)	AL5_52
201911_s_at	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)	NM_766

201802_at	SLC29A1	solute carrier family 29 (nucleoside transporters), member 1	NM_955
201809_s_at	ENG	endoglin (Osler-Rendu-Weber syndrome 1)	NM_118
201660_at	ACSL3	acyl-CoA synthetase long-chain family member 3	AL598
201737_s_at	6-Mar	membrane-associated ring finger (C3HC4) 6	NM_885
201602_s_at	PPP1R12A	protein phosphatase 1, regulatory (inhibitor) subunit 12A	NM_480
201655_s_at	HSPG2	heparan sulfate proteoglycan 2	AI993
201525_at	APOD	apolipoprotein D	NM_647
201578_at	PODXL	podocalyxin-like	NM_397
201389_at	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	NM_205
201416_at	SOX4	SRY (sex determining region Y)-box 4	NM_107
201261_x_at	BGN	biglycan	BC016
201313_at	ENO2	enolase 2 (gamma, neuronal)	NM_975
200974_at	ACTA2	actin, alpha 2, smooth muscle, aorta	NM_613
201058_s_at	MYL9	myosin, light chain 9, regulatory	NM_097
200676_s_at	UBE2L3	ubiquitin-conjugating enzyme E2L 3	NM_347
200747_s_at	NUMA1	nuclear mitotic apparatus protein 1	NM_185

1598_g_at	GAS6	growth arrest-specific 6	L137
200621_at	CSRP1	cysteine and glycine-rich protein 1	NM_078
58780_s_at	FLJ10357	hypothetical protein FLJ10357	R42
208109_s_at	C15orf5	chromosome 15 open reading frame 5	NM_944
222357_at	ZBTB20	zinc finger and BTB domain containing 20	AW923
37408_at	MRC2	mannose receptor, C type 2	AB009
221988_at	MED26	mediator complex subunit 26	AA453
222101_s_at	DCHS1	dachsous 1 (Drosophila)	BF293
221796_at	NTRK2	neurotrophic tyrosine kinase, receptor, type 2	AA799
221814_at	GPR124	G protein-coupled receptor 124	BF515
221589_s_at	ALDH6A1	aldehyde dehydrogenase 6 family, member A1	AW603
221645_s_at	ZNF83	zinc finger protein 83	M27
221127_s_at	RIG	regulated in glioma	NM_394
221276_s_at	SYNC1	syncoilin, intermediate filament 1	NM_786
220917_s_at	WDR19	WD repeat domain 19	NM_132
221011_s_at	LBH	limb bud and heart development homolog (mouse)	NM_915
220170_at	FHL5	four and a half LIM domains 5	NM_482
220692_at	POLR2J2	DNA directed RNA polymerase II polypeptide J-related	NM_147
219777_at	GIMAP6	GTPase, IMAP family member 6	NM_

at			711
219778_at	ZFPM2	zinc finger protein, multitype 2	NM_082
219440_at	RAI2	retinoic acid induced 2	NM_785
219518_s_at	ELL3	elongation factor RNA polymerase II-like 3	NM_165
219368_at	NAP1L2	nucleosome assembly protein 1-like 2	NM_963
219432_at	EVC	Ellis van Creveld syndrome	NM_556
219134_at	ELTD1	EGF, latrophilin and seven transmembrane domain containing 1	NM_159
219213_at	JAM2	junctional adhesion molecule 2	NM_219
219025_at	CD248	CD248 molecule, endosialin	NM_404
219093_at	PID1	phosphotyrosine interaction domain containing 1	NM_933
218718_at	PDGFC	platelet derived growth factor C	NM_205
218966_at	MYO5C	myosin VC	NM_728
218656_s_at	LHFP	lipoma HMGIC fusion partner	NM_780
218692_at	GOLSYN	Golgi-localized protein	NM_786
218573_at	MAGEH1	melanoma antigen family H, 1	NM_061
218638_s_at	SPON2	spondin 2, extracellular matrix protein	NM_445
218490_s_at	ZNF302	zinc finger protein 302	NM_443
218532_at	FAM134B	family with sequence similarity 134, member B	NM_443

s_at			000
217858_s_at	ARMCX3	armadillo repeat containing, X-linked 3	NM_607
218211_s_at	MLPH	melanophilin	NM_101
217771_at	GOLM1	golgi membrane protein 1	NM_548
217853_at	TNS3	tensin 3	NM_748
217025_s_at	DBN1	drebrin 1	AL1_25
217504_at	ABCA6	ATP-binding cassette, sub-family A (ABC1), member 6	AA0_57
216442_x_at	FN1	fibronectin 1	AK0_37
216620_s_at	ARHGEF10	Rho guanine nucleotide exchange factor (GEF) 10	AF0_05
216320_x_at	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)	U37
216333_x_at	TNXB	tenascin XB	M25
215322_at	LONRF1	LON peptidase N-terminal domain and ring finger 1	AL0_90
215516_at	LAMB4	laminin, beta 4	AC0_48
215073_s_at	NR2F2	nuclear receptor subfamily 2, group F, member 2	AL5_45

215116_s_at	DNM1	dynamain 1	AF021
214823_at	ZNF204	zinc finger protein 204	AF099
214850_at	GUSBP1	glucuronidase, beta pseudogene 1	X75
214724_at	DIXDC1	DIX domain containing 1	AF021
214761_at	ZNF423	zinc finger protein 423	AW117
214439_x_at	BIN1	bridging integrator 1	AF099
214451_at	TFAP2B	transcription factor AP-2 beta (activating enhancer binding protein 2 beta)	NM221
214180_at	MAN1C1	mannosidase, alpha, class 1C, member 1	AW388
214433_s_at	SELENBP1	selenium binding protein 1	NM944
214102_at	CENTD1	centaurin, delta 1	AK037
214152_at	CCPG1	cell cycle progression 1	AU143
213939_s_at	RUFY3	RUN and FYVE domain containing 3	AI871
214027_x_at	DES	desmin	AA853
213675_at			W61
213764_s_at	MFAP5	microfibrillar associated protein 5	AW692
213568_at	OSR2	odd-skipped related 2 (Drosophila)	AI818
213620_s_at	ICAM2	intercellular adhesion molecule 2	AA128
213451_x_at	TNXB	tenascin XB	BE014

213541_s_at	ERG	v-ets erythroblastosis virus E26 oncogene homolog (avian)	AI353
213413_at	STON1	stonin 1	BG474
213422_s_at	MXRA8	matrix-remodelling associated 8	AW823
213369_at	PCDH21	protocadherin 21	AI822
213380_x_at	MSTP9	macrophage stimulating, pseudogene 9	AA935
213348_at	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)	N33
213364_s_at	SNX1	sorting nexin 1	AI056
213222_at	PLCB1	phospholipase C, beta 1 (phosphoinositide-specific)	AL093
213290_at	COL6A2	collagen, type VI, alpha 2	AL550
213169_at	SEMA5A	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	BG155
213217_at	ADCY2	adenylate cyclase 2 (brain)	AU172

213106_ at	ATP8A1	ATPase, aminophospholipid transporter (APLT), Class I, type 8A, member 1	AI76 8
213122_ at	TSPYL5	TSPY-like 5	AI09 5
213075_ at	OLFML2A	olfactomedin-like 2A	AL05 02
213093_ at	PRKCA	protein kinase C, alpha	AI47 5

213058_ at	TTC28	tetratricopeptide repeat domain 28	AL0338
213059_ at	CREB3L1	cAMP responsive element binding protein 3-like 1	AF0909
213018_ at	GATAD1	GATA zinc finger domain containing 1	AI3311
213032_ at	NFIB	nuclear factor I/B	AI1899
212980_ at	USP34	ubiquitin specific peptidase 34	AL0776
212985_ at			BF139
212950_ at	GPR116	G protein-coupled receptor 116	BF999
212951_ at	GPR116	G protein-coupled receptor 116	N95
212845_ at	SAMD4A	sterile alpha motif domain containing 4A	AB076
212914_ at	CBX7	chromobox homolog 7	AV664
212793_ at	DAAM2	dishevelled associated activator of morphogenesis 2	BF544
212805_ at			AL149
212764_ at	ZEB1	zinc finger E-box binding homeobox 1	AI376
212771_ at	C10orf38	chromosome 10 open reading frame 38	AU143
212761_ at	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)	AI704

212762_ s_at	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)	AI37 6
212675_ s_at	CEP68	centrosomal protein 68kDa	AB0 54
212690_ at	DDHD2	DDHD domain containing 2	AB0 68
212609_ s_at	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	U79

212660_at	PHF15	PHD finger protein 15	AI739
212504_at	DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)	N311
212560_at	SORL1	sortilin-related receptor, L(DLR class) A repeats-containing	AV768
212488_at	COL5A1	collagen, type V, alpha 1	N301
212503_s_at	DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)	N221
212423_at	C10orf56	chromosome 10 open reading frame 56	AK084
212464_s_at	FN1	fibronectin 1	X021
212343_at	YIPF6	Yip1 domain family, member 6	AL161
212419_at	C10orf56	chromosome 10 open reading frame 56	AA124
212158_at	SDC2	syndecan 2	AL522
212233_at			AL576
211719_x_at	FN1	fibronectin 1	BC058

212157_ at	SDC2	syndecan 2	AI38 8
210944_ s_at	CAPN3	calpain 3, (p94)	BC0 69
211105_ s_at	NFATC1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	U80
210297_ s_at	MSMB	microseminoprotein, beta-	U22
210299_ s_at	FHL1	four and a half LIM domains 1	AF0 02
209763_ at	CHRDL1	chordin-like 1	AL04 76
209815_ at	PTCH1	patched homolog 1 (Drosophila)	BG0 16
209655_ s_at	TMEM47	transmembrane protein 47	AL13 50
209685_ s_at	PRKCB1	protein kinase C, beta 1	M13

209550_ at	NDN	neccin homolog (mouse)	U35
209651_ at	TGFB111	transforming growth factor beta 1 induced transcript 1	BC0 30
209443_ at	SERPINA5	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5	J026
209447_ at	SYNE1	spectrin repeat containing, nuclear envelope 1	AF0 90
209335_ at	DCN	decorin	BC0 22
209343_ at	EFHD1	EF-hand domain family, member D1	BC0 49
209292_ at	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	AL0 26

209298_s_at	ITSN1	intersectin 1 (SH3 domain protein)	AF188
209242_at	PEG3	paternally expressed 3	AL0488
209291_at	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	AW194
209200_at	MEF2C	myocyte enhancer factor 2C	AL517
209210_s_at	PLEKHC1	pleckstrin homology domain containing, family C (with FERM domain) member 1	Z24
209160_at	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	AB080
209183_s_at	C10orf10	chromosome 10 open reading frame 10	AL1153
209120_at	NR2F2	nuclear receptor subfamily 2, group F, member 2	AL0301
209121_x_at	NR2F2	nuclear receptor subfamily 2, group F, member 2	M64
209094_at	DDAH1	dimethylarginine dimethylaminohydrolase 1	AL0759
209101_at	CTGF	connective tissue growth factor	M92
208964_s_at	FADS1	fatty acid desaturase 1	AL560
208983_s_at	PECAM1	platelet/endothelial cell adhesion molecule (CD31 antigen)	M37

208760_at	UBE2I	ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	AL0314
208869_s_at	GABARAPL1	GABA(A) receptor-associated protein like 1	BF156
208335_s_at	DARC	Duffy blood group, chemokine receptor	NM_036
208498_s_at	AMY1A	amylase, alpha 1A (salivary)	NM_038
208015_at	SMAD1	SMAD family member 1	NM_583
208096_s_at	COL21A1	collagen, type XXI, alpha 1	NM_820
207430_s_at	MSMB	microseminoprotein, beta-	NM_443
207522_s_at	ATP2A3	ATPase, Ca ⁺⁺ transporting, ubiquitous	NM_173
207177_at	PTGFR	prostaglandin F receptor (FP)	NM_959
207191_s_at	ISLR	immunoglobulin superfamily containing leucine-rich repeat	NM_545
206873_at	CA6	carbonic anhydrase VI	NM_215
207123_s_at	MATN4	matrilin 4	NM_833
206580_s_at	EFEMP2	EGF-containing fibulin-like extracellular matrix protein 2	NM_938
206858_s_at	HOXC6	homeobox C6	NM_503
206373_at	ZIC1	Zic family member 1 (odd-paired homolog, Drosophila)	NM_412
206481_s_at	LDB2	LIM domain binding 2	NM_290
206159_at	GDF10	growth differentiation factor 10	NM_962

206201_s_at	MEOX2	mesenchyme homeobox 2	NM_924
206070_s_at	EPHA3	EPH receptor A3	AF259
206093_x_at	TNXB	tenascin XB	NM_116
205932_s_at	MSX1	msh homeobox 1	NM_448
205933_at	SETBP1	SET binding protein 1	NM_559
205794_s_at	NOVA1	neuro-oncological ventral antigen 1	NM_515
205802_at	TRPC1	transient receptor potential cation channel, subfamily C, member 1	NM_304
205620_at	F10	coagulation factor X	NM_504
205752_s_at	GSTM5	glutathione S-transferase M5	NM_851
205609_at	ANGPT1	angiopoietin 1	NM_146
205614_x_at	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)	NM_998
205528_s_at	RUNX1T1	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	X79
205594_at	ZNF652	zinc finger protein 652	NM_897
205440_s_at	NPY1R	neuropeptide Y receptor Y1	NM_909
205525_s_at	CALD1	caldesmon 1	NM_924

at			495
205392_s_at	CCL14	chemokine (C-C motif) ligand 14	NM_166
205404_at	HSD11B1	hydroxysteroid (11-beta) dehydrogenase 1	NM_525
205259_at	NR3C2	nuclear receptor subfamily 3, group C, member 2	NM_901
205304_s_at	KCNJ8	potassium inwardly-rectifying channel, subfamily J, member 8	BF558
205141_at	ANG	angiogenin, ribonuclease, RNase A family, 5	NM_145
205200_at	CLEC3B	C-type lectin domain family 3, member B	NM_278
205076_s_at	MTMR11	myotubularin related protein 11	NM_697
205116_at	LAMA2	laminin, alpha 2 (merosin, congenital muscular dystrophy)	NM_426
204992_s_at	PFN2	profilin 2	NM_628
205044_at	GABRP	gamma-aminobutyric acid (GABA) A receptor, pi	NM_211
204754_at	HLF	hepatic leukemia factor	W60

204773_at	IL11RA	interleukin 11 receptor, alpha	NM_512
204731_at	TGFBR3	transforming growth factor, beta receptor III	NM_243
204734_at	KRT15	keratin 15	NM_275
204686_at	IRS1	insulin receptor substrate 1	NM_544
204688_at	SGCE	sarcoglycan, epsilon	NM_919
204671_s_at	ANKRD6	ankyrin repeat domain 6	BE631
204677_at	CDH5	cadherin 5, type 2, VE-cadherin (vascular epithelium)	NM_795
204570_at	COX7A1	cytochrome c oxidase subunit VIIa polypeptide 1 (muscle)	NM_864
204604_at	PFTK1	PFTAIRE protein kinase 1	NM_395
204352_at	TRAF5	TNF receptor-associated factor 5	NM_619
204363_at	F3	coagulation factor III (thromboplastin, tissue factor)	NM_993
204284_at	PPP1R3C	protein phosphatase 1, regulatory (inhibitor) subunit 3C	N26
204345_at	COL16A1	collagen, type XVI, alpha 1	NM_856
204223_at	PRELP	proline/arginine-rich end leucine-rich repeat protein	NM_725
204276_at	TK2	thymidine kinase 2, mitochondrial	BE837

204083_s_at	TPM2	tropomyosin 2 (beta)	NM_289
204115_at	GNG11	guanine nucleotide binding protein (G protein), gamma 11	NM_126
204036_at	EDG2	endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2	AW235
204037_at	EDG2	endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2	BF066
203951_at	CNN1	calponin 1, basic, smooth muscle	NM_299
204030_s_at	SCHIP1	schwannomin interacting protein 1	NM_575
203903_s_at	HEPH	hephaestin	NM_799
203919_at	TCEA2	transcription elongation factor A (SII), 2	NM_195
203812_at	SLIT3	slit homolog 3 (Drosophila)	AB038
203881_s_at	DMD	dystrophin (muscular dystrophy, Duchenne and Becker types)	NM_010
203766_s_at	LMOD1	leiomodoin 1 (smooth muscle)	NM_134
203794_at	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)	NM_826
203657_s_at	CTSF	cathepsin F	NM_793
203666_at	CXCL12	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	NM_609

203335_at	PHYH	phytanoyl-CoA 2-hydroxylase	NM_214
203562_at	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	NM_103
203001_s_at	STMN2	stathmin-like 2	NM_029
203167_at	TIMP2	TIMP metalloproteinase inhibitor 2	NM_255
202994_s_at	FBLN1	fibulin 1	Z95
202995_s_at	FBLN1	fibulin 1	NM_486
202806_at	DBN1	drebrin 1	NM_395
202976_s_at	RHOBTB3	Rho-related BTB domain containing 3	NM_899
202747_s_at	ITM2A	integral membrane protein 2A	NM_867
202760_s_at	PALM2-AKAP2	PALM2-AKAP2 protein	NM_203
202686_s_at	AXL	AXL receptor tyrosine kinase	NM_913
202746_at	ITM2A	integral membrane protein 2A	AL0286
202561_at	TNKS	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	AF013
202609_at	EPS8	epidermal growth factor receptor pathway substrate 8	NM_447
202465_at	PCOLCE	procollagen C-endopeptidase enhancer	NM_593
202555_s_at	MYLK	myosin, light chain kinase	NM_965
202291_s_at	MGP	matrix Gla protein	NM_900
202350_at	MATN2	matrilin 2	NM_900

s_at			380
202156_s_at	CUGBP2	CUG triplet repeat, RNA binding protein 2	N36
202172_at	VEZF1	vascular endothelial zinc finger 1	BG016
202125_s_at	TRAK2	trafficking protein, kinesin binding 2	NM_049
202149_at	NEDD9	neural precursor cell expressed, developmentally down-regulated 9	AL1339
201843_s_at	EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	NM_105
201957_at	PPP1R12B	protein phosphatase 1, regulatory (inhibitor) subunit 12B	AF388
201792_at	AEBP1	AE binding protein 1	NM_129
201839_s_at	TACSTD1	tumor-associated calcium signal transducer 1	NM_354
201753_s_at	ADD3	adducin 3 (gamma)	NM_903
201787_at	FBLN1	fibulin 1	NM_996
201650_at	KRT19	keratin 19	NM_276
201719_s_at	EPB41L2	erythrocyte membrane protein band 4.1-like 2	NM_431
201540_at	FHL1	four and a half LIM domains 1	NM_449
201596_x_at	KRT18	keratin 18	NM_224
201431_s_at	DPYSL3	dihydropyrimidinase-like 3	NM_387
201497_x_at	MYH11	myosin, heavy chain 11, smooth muscle	NM_844
201307_at	11-Sep	septin 11	AL572
201430_s_at	DPYSL3	dihydropyrimidinase-like 3	W72

201150_s_at	TIMP3	TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	NM_362
201280_s_at	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	NM_343
201147_s_at	TIMP3	TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	NM_362
201148_s_at	TIMP3	TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	AW333
219398_at	CIDEA	cell death-inducing DFFA-like effector c	NM_094
200962_at	RPL31	ribosomal protein L31	AI340
222288_at			AI009
205913_at	PLIN	perilipin	NM_666
221795_at	NTRK2	neurotrophic tyrosine kinase, receptor, type 2	AA799
221950_at	EMX2	empty spiracles homeobox 2	AI475
221470_s_at	IL1F7	interleukin 1 family, member 7 (zeta)	NM_439
221530_s_at	BHLHB3	basic helix-loop-helix domain containing, class B, 3	AB088
219833_s_at	EFHC1	EF-hand domain (C-terminal) containing 1	NM_100
220559_at	EN1	engrailed homeobox 1	NM_426
219087_at	ASPN	asporin	NM_680
219304_s_at	PDGFD	platelet derived growth factor D	AB032
218820_at	C14orf132	chromosome 14 open reading frame 132	NM_215

219064_at	ITIH5	inter-alpha (globulin) inhibitor H5	NM_569
218625_at	NRN1	neuritin 1	NM_588
218730_s_at	OGN	osteoglycin	AF267
218418_s_at	ANKRD25	ankyrin repeat domain 25	NM_493
218546_at	C1orf115	chromosome 1 open reading frame 115	NM_709
218087_s_at	SORBS1	sorbin and SH3 domain containing 1	N214
218312_s_at	ZSCAN18	zinc finger and SCAN domain containing 18	NM_926
215303_at			BE061
217506_at	LOC400642	hypothetical gene supported by BC041875; BX648984	H49
214151_s_at	CCPG1	cell cycle progression 1	AU143
214927_at	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	AL352
213397_x_at	ANG	angiogenin, ribonuclease, RNase A family, 5	AI768
213800_at	CFH	complement factor H	X04
213071_at	DPT	dermatopontin	AL098
213156_at			BG221
212326_at	VPS13D	vacuolar protein sorting 13 homolog D (<i>S. cerevisiae</i>)	AB022
212850_s_at	LRP4	low density lipoprotein receptor-related protein 4	AA597
209894_at	LEPR	leptin receptor	U50

211685_s_at	NCALD	neurocalcin delta	AF261
209656_s_at	TMEM47	transmembrane protein 47	AL1350
209869_at	ADRA2A	adrenergic, alpha-2A-, receptor	AF295
209543_s_at	CD34	CD34 molecule	M81
209581_at	HRASLS3	HRAS-like suppressor 3	BC087
207175_at	ADIPOQ	adiponectin, C1Q and collagen domain containing	NM_797
209356_x_at	EFEMP2	EGF-containing fibulin-like extracellular matrix protein 2	AB055
206167_s_at	ARHGAP6	Rho GTPase activating protein 6	NM_174
206227_at	CILP	cartilage intermediate layer protein, nucleotide pyrophosphohydrolase	NM_613
205549_at	PCP4	Purkinje cell protein 4	NM_198
206149_at	CHP2	calcineurin B homologous protein 2	NM_097
204963_at	SSPN	sarcospan (Kras oncogene-associated gene)	AL1356
205003_at	DOCK4	dedicator of cytokinesis 4	NM_705
204591_at	CHL1	cell adhesion molecule with homology to L1CAM (close homolog of L1)	NM_614

204939_s_at	PLN	phospholamban	NM_667
203980_at	FABP4	fatty acid binding protein 4, adipocyte	NM_442
204589_at	NUAK1	NUAK family, SNF1-like kinase, 1	NM_840
203824_at	TSPAN8	tetraspanin 8	NM_616
203895_at	PLCB4	phospholipase C, beta 4	AL513
203548_s_at	LPL	lipoprotein lipase	BF675
203549_s_at	LPL	lipoprotein lipase	NM_237
202409_at	IGF2	insulin-like growth factor 2 (somatomedin A)	X078
202973_x_at	FAM13A1	family with sequence similarity 13, member A1	NM_883
202274_	ACTG2	actin, gamma 2, smooth muscle, enteric	NM_

at			615
202363_at	SPOCK1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	AF224
201496_x_at	MYH11	myosin, heavy chain 11, smooth muscle	NM_844
202052_s_at	RAI14	retinoic acid induced 14	NM_577
217525_at	OLFML1	olfactomedin-like 1	AW397
201124_at	ITGB5	integrin, beta 5	AL023
204294_at	AMT	aminomethyltransferase	NM_481
204519_s_at	PLLP	plasma membrane proteolipid (plasmolipin)	NM_993
65472_at	USP39	ubiquitin specific peptidase 39	AI168
65718_at	GPR124	G protein-coupled receptor 124	AI653
564_at	GNA11	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)	M69
57715_at	FAM26B	family with sequence similarity 26, member B	W72
46256_at	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	AA570
48825_at	ING4	inhibitor of growth family, member 4	AA883
41644_at	SASH1	SAM and SH3 domain containing 1	AB033
45297_at	EHD2	EH-domain containing 2	AI417

40446_at	PHF1	PHD finger protein 1	AL0266
40837_at	TLE2	transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila)	M99
36554_at	ASMTL	acetylserotonin O-methyltransferase-like	Y15
39313_at	WNK1	WNK lysine deficient protein kinase 1	AB042
36030_at	HOM-TES-103	hypothetical protein LOC25900	AL014
36553_at	ASMTL	acetylserotonin O-methyltransferase-like	AA699
222372_at	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1	AW948
32625_at	NPR1	natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)	X15
222362_at	HRBL	HIV-1 Rev binding protein-like	H07
222368_at			AW951
222266_at	C19orf2	chromosome 19 open reading frame 2	BF740
222282_at	PAPD4	PAP associated domain containing 4	AV753
222146_s_at	TCF4	transcription factor 4	AK074
222240_s_at	ISYNA1	myo-inositol 1-phosphate synthase A1	AL149
222116_s_at	TBC1D16	TBC1 domain family, member 16	AL185
222125_s_at	PH-4	hypoxia-inducible factor prolyl 4-hydroxylase	BC080

222027_at	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1	AW543
222108_at	AMIGO2	adhesion molecule with Ig-like domain 2	AC010
221974_at	PWCR1	Prader-Willi syndrome chromosome region 1	AW748
222024_s_at	AKAP13	A kinase (PRKA) anchor protein 13	AK014
221928_at	ACACB	acetyl-Coenzyme A carboxylase beta	AI057
221942_s_at	GUCY1A3	guanylate cyclase 1, soluble, alpha 3	AI710
221870_at	EHD2	EH-domain containing 2	AI417
221900_at	COL8A2	collagen, type VIII, alpha 2	AI803
221748_s_at	TNS1	tensin 1	AL0479
221864_at	ORAI3	ORAI calcium release-activated calcium modulator 3	AW564
221718_s_at	AKAP13	A kinase (PRKA) anchor protein 13	M90
221747_at	TNS1	tensin 1	AL0479
221646_s_at	ZDHHC11	zinc finger, DHHC-type containing 11	AF259
221675_s_at	CHPT1	choline phosphotransferase 1	AF124

221565_s_at	FAM26B	family with sequence similarity 26, member B	BC039
221599_at	C11orf67	chromosome 11 open reading frame 67	BC052
221527_s_at	PARD3	par-3 partitioning defective 3 homolog (C. elegans)	AF185
221552_at	ABHD6	abhydrolase domain containing 6	BC098
221496_s_at	TOB2	transducer of ERBB2, 2	AL082
221523_s_at	RRAGD	Ras-related GTP binding D	AL117
221016_s_at	TCF7L1	transcription factor 7-like 1 (T-cell specific, HMG-box)	NM_283
221123_x_at	ZNF395	zinc finger protein 395	NM_660
220744_s_at	IFT122	intraflagellar transport 122 homolog (Chlamydomonas)	NM_262
220940_at	KIAA1641	KIAA1641	NM_190
220512_at	DLC1	deleted in liver cancer 1	NM_767
220609_at	LOC202181	hypothetical protein LOC202181	NM_651
220349_s_at	FLJ21865	endo-beta-N-acetylglucosaminidase	NM_759

220432_s_at	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1	NM_593
220276_at	FLJ22655	hypothetical protein FLJ22655	NM_730
220327_at	VGLL3	vestigial like 3 (Drosophila)	NM_206
220184_at	NANOG	Nanog homeobox	NM_865
220244_at	LOH3CR2A	loss of heterozygosity, 3, chromosomal region 2, gene A	NM_343
220065_at	TNMD	tenomodulin	NM_144
220076_at	ANKH	ankylosis, progressive homolog (mouse)	NM_847
219999_at	MAN2A2	mannosidase, alpha, class 2A, member 2	NM_621
220016_at	AHNAK	AHNAK nucleoprotein	NM_060
219909_at	MMP28	matrix metalloproteinase 28	NM_302
219957_at	RUFY2	RUN and FYVE domain containing 2	NM_987
219765_at	ZNF329	zinc finger protein 329	NM_620
219848_s_at	ZNF432	zinc finger protein 432	NM_650
219561_at	COPZ2	coatamer protein complex, subunit zeta 2	NM_429
219563_at	C14orf139	chromosome 14 open reading frame 139	NM_633
219517_at	ELL3	elongation factor RNA polymerase II-like 3	NM_165
219534_at	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)	NM_165

x_at			076
219468_s_at	CUEDC1	CUE domain containing 1	NM_949
219511_s_at	SNCAIP	synuclein, alpha interacting protein (synphilin)	NM_460
219407_s_at	LAMC3	laminin, gamma 3	NM_059
219429_at	FA2H	fatty acid 2-hydroxylase	NM_306
219295_s_at	PCOLCE2	procollagen C-endopeptidase enhancer 2	NM_363
219390_at	FKBP14	FK506 binding protein 14, 22 kDa	NM_946
219229_at	SLCO3A1	solute carrier organic anion transporter family, member 3A1	NM_272
219274_at	TSPAN12	tetraspanin 12	NM_338
219167_at	RASL12	RAS-like, family 12	NM_563
219195_at	PPARGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	NM_261
219132_at	PELI2	pellino homolog 2 (Drosophila)	NM_255
219140_s_at	RBP4	retinol binding protein 4, plasma	AF168
218974_at	SOBP	sine oculis binding protein homolog (Drosophila)	NM_013
219062_s_at	ZCCHC2	zinc finger, CCHC domain containing 2	BE643
218934_s_at	HSPB7	heat shock 27kDa protein family, member 7 (cardiovascular)	NM_424
218952_s_at	PCSK1N	proprotein convertase subtilisin/kexin type 1 inhibitor	NM_

at			271
218665_at	FZD4	frizzled homolog 4 (Drosophila)	NM_193
218847_at	IGF2BP2	insulin-like growth factor 2 mRNA binding protein 2	NM_548
218641_at	MGC3032	hypothetical protein MGC3032	NM_941
218651_s_at	LARP6	La ribonucleoprotein domain family, member 6	NM_357
218574_s_at	LMCD1	LIM and cysteine-rich domains 1	NM_583
218624_s_at	MGC2752	hypothetical protein MGC2752	NM_939
218486_at	KLF11	Kruppel-like factor 11	AA1_94
218517_at	PHF17	PHD finger protein 17	NM_900
218437_s_at	LZTFL1	leucine zipper transcription factor-like 1	AA8_32
218450_at	HEBP1	heme binding protein 1	NM_987
218164_at	SPATA20	spermatogenesis associated 20	NM_827
218168_s_at	CABC1	chaperone, ABC1 activity of bc1 complex homolog (S. pombe)	NM_247
218086_at	NPDC1	neural proliferation, differentiation and control, 1	NM_392
218149_s_at	ZNF395	zinc finger protein 395	NM_606
217897_at	FXVD6	FXVD domain containing ion transport regulator 6	NM_003
217974_at	TM7SF3	transmembrane 7 superfamily member 3	NM_551
217667_at	LOC729799	similar to SEC14-like protein 1	AV7_14
217734_s_at	WDR6	WD repeat domain 6	NM_031
217437_s_at	TACC1	transforming, acidic coiled-coil containing protein 1	AB0_26
217627_at	ZNF573	zinc finger protein 573	BE5_46
217226_s_at	SFXN3	sideroflexin 3	M95

217257_ at			L371
217087_ at	C1orf68	chromosome 1 open reading frame 68	AF081
217164_ at			AK008
216331_ at	ITGA7	integrin, alpha 7	AK048
216614_ at	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	AL088
216080_ s_at	FADS3	fatty acid desaturase 3	AC070
216264_ s_at	LAMB2	laminin, beta 2 (laminin S)	X79
215768_ at	SOX5	SRY (sex determining region Y)-box 5	AL037
216000_ at	KIAA0484	KIAA0484 protein	AA795
215617_ at			AU111
215695_ s_at	GYG2	glycogenin 2	U94
215537_ x_at	DDAH2	dimethylarginine dimethylaminohydrolase 2	AJ08
215567_ at	FCF1	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)	AU119

215235_at	SPTAN1	spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)	AL173
215358_x_at	ZNF37B	zinc finger protein 37B	AK080
215139_at	ARHGEF10	Rho guanine nucleotide exchange factor (GEF) 10	AL108
215146_s_at	TTC28	tetratricopeptide repeat domain 28	AB066
215066_at	PTPRF	protein tyrosine phosphatase, receptor type, F	AU143
215129_at	PIK3C2G	phosphoinositide-3-kinase, class 2, gamma polypeptide	AJ008
214967_at	SAMD4A	sterile alpha motif domain containing 4A	AU183
215016_x_at	DST	dystonin	BC012
214920_at	THSD7A	thrombospondin, type I, domain containing 7A	R33
214925_s_at	SPTAN1	spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)	AK084
214890_s_at	DKFZP564J102	DKFZP564J102 protein	AL065
214909_s_at	DDAH2	dimethylarginine dimethylaminohydrolase 2	AK091
214783_s_at	ANXA11	annexin A11	BG120
214808_at			AU151
214734_at	EXPH5	exophilin 5	AB024
214739_at	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3	AI359
214598_at	CLDN8	claudin 8	AL077

214682_at	LOC399491	LOC399491 protein	AK076
214454_at	ADAMTS2	ADAM metalloproteinase with thrombospondin type 1 motif, 2	NM_244
214464_at	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)	NM_607
214415_at	PLGLB1	plasminogen-like B1	N58
214434_at	HSPA12A	heat shock 70kDa protein 12A	AB077
214247_s_at	DKK3	dickkopf homolog 3 (<i>Xenopus laevis</i>)	AU157
214395_x_at	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	AI613
214234_s_at	CYP3A5P2	cytochrome P450, family 3, subfamily A, polypeptide 5 pseudogene 2	X903
214239_x_at	CISD3	CDGSH iron sulfur domain 3	AI565
214188_at	HEXIM1	hexamethylene bis-acetamide inducible 1	AW696
214212_x_at	PLEKHC1	pleckstrin homology domain containing, family C (with FERM domain) member 1	AI921
214156_at	MYRIP	myosin VIIA and Rab interacting protein	AL090
214175_x_at	PDLIM4	PDZ and LIM domain 4	AI257
214041_x_at	RPL37A	ribosomal protein L37a	BE872
214110_s_at	LOC654342	similar to lymphocyte-specific protein 1	BF104
214021_x_at	ITGB5	integrin, beta 5	AI338

214036_at			BE499
213982_s_at	RABGAP1L	RAB GTPase activating protein 1-like	BG103
214001_x_at	RPS10	ribosomal protein S10	AW347
213931_at	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	AI818
213942_at	MEGF6	multiple EGF-like-domains 6	AL103
213924_at	MPPE1	metallophosphoesterase 1	BF402
213925_at	C1orf95	chromosome 1 open reading frame 95	AL112
213900_at	C9orf61	chromosome 9 open reading frame 61	AA529
213905_x_at	BGN	biglycan	AA858
213792_s_at			AA408
213891_s_at	TCF4	transcription factor 4	AI927
213705_at			AW361
213706_at	GPD1	glycerol-3-phosphate dehydrogenase 1 (soluble)	AI368
213686_at	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)	AI185
213693_s_at	MUC1	mucin 1, cell surface associated	AI619
213661_at	DKFZP586H2123	regeneration associated muscle protease	AI676
213668_s_at	SOX4	SRY (sex determining region Y)-box 4	AI987
213605_s_at	LOC728411	similar to Beta-glucuronidase precursor	AL087
213657_s_at	ZNF710	zinc finger protein 710	BE894
213587_s_at	ATP6V0E2	ATPase, H+ transporting V0 subunit e2	AI887
213592_at	AGTRL1	angiotensin II receptor-like 1	X892

213489_at	MAPRE2	microtubule-associated protein, RP/EB family, member 2	BE656
213543_at			AA553
213388_at	LOC727942	similar to phosphodiesterase 4D interacting protein isoform 2	H15
213455_at	FAM114A1	family with sequence similarity 114, member A1	W87
213351_s_at	TMCC1	transmembrane and coiled-coil domain family 1	AB022
213371_at	LDB3	LIM domain binding 3	AI802
213329_at	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2	AA761
213350_at	RPS11	ribosomal protein S11	BF655
213317_at	CLIC5	chloride intracellular channel 5	AL0413
213326_at	VAMP1	vesicle-associated membrane protein 1 (synaptobrevin 1)	AU119
213260_at			AU190
213316_at	KIAA1462	KIAA1462	AL054
213183_s_at	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)	N95
213249_at	FBXL7	F-box and leucine-rich repeat protein 7	AU127
213116_at	NEK3	NIMA (never in mitosis gene a)-related kinase 3	AI190
213182_x_at	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)	R78
213030_s_at	PLXNA2	plexin A2	AI688
213089_at	GUSBP1	glucuronidase, beta pseudogene 1	AU190
213010_at	PRKCDBP	protein kinase C, delta binding protein	AI082
213029_at	NFIB	nuclear factor I/B	BG428

212991_ at	FBXO9	F-box protein 9	AL0378
212993_ at			AA166
212923_ s_at	C6orf145	chromosome 6 open reading frame 145	AK028
212970_ at			AI693
212913_ at	C6orf26	chromosome 6 open reading frame 26	BE660
212915_ at	PDZRN3	PDZ domain containing RING finger 3	AL504
212822_ at	HEG1	HEG homolog 1 (zebrafish)	AA102
212875_ s_at	C21orf25	chromosome 21 open reading frame 25	AP045
212775_ at	OBSL1	obscurin-like 1	AI973
212813_ at	JAM3	junctional adhesion molecule 3	AA144
212647_ at	RRAS	related RAS viral (r-ras) oncogene homolog	NM270
212651_ at	RHOBTB1	Rho-related BTB domain containing 1	AB083
212567_ s_at	MAP4	microtubule-associated protein 4	AL510
212594_ at	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)	AI180
212510_ at	GPD1L	glycerol-3-phosphate dehydrogenase 1-like	AA122
212518_ at	PIP5K1C	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma	AB061

212498_at			AF033
212509_s_at	MXRA7	matrix-remodelling associated 7	BF934
212483_at	NIPBL	Nipped-B homolog (Drosophila)	AB094
212494_at	TENC1	tensin like C1 domain containing phosphatase (tensin 2)	AB098
212427_at	KIAA0368	KIAA0368	AB066
212468_at	SPAG9	sperm associated antigen 9	AK012
212346_s_at	MXD4	MAX dimerization protein 4	AK092
212372_at	MYH10	myosin, heavy chain 10, non-muscle	AK077
212254_s_at	DST	dystonin	AI790
212328_at	LIMCH1	LIM and calponin homology domains 1	AB025
212226_s_at	PPAP2B	phosphatidic acid phosphatase type 2B	AA686
212240_s_at	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)	AI678

212104_s_at	RBM9	RNA binding motif protein 9	N95
212151_at	PBX1	pre-B-cell leukemia homeobox 1	BF998

212080_at	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	AV729
212097_at	CAV1	caveolin 1, caveolae protein, 22kDa	AU199
211998_at	H3F3B	H3 histone, family 3B (H3.3B)	Z489
212071_s_at	SPTBN1	spectrin, beta, non-erythrocytic 1	BE933
211841_s_at	TNFRSF25	tumor necrosis factor receptor superfamily, member 25	U944
211959_at	IGFBP5	insulin-like growth factor binding protein 5	AWC32
211538_s_at	HSPA2	heat shock 70kDa protein 2	U561
211564_s_at	PDLIM4	PDZ and LIM domain 4	BC096
211458_s_at	GABARAPL3	GABA(A) receptors associated protein like 3	AF119
211535_s_at	FGFR1	fibroblast growth factor receptor 1 (fms-related tyrosine kinase 2, Pfeiffer syndrome)	M601
210987_x_at	TPM1	tropomyosin 1 (alpha)	M19
211026_s_at	MGLL	monoglyceride lipase	BC030
210778_s_at	MXD4	MAX dimerization protein 4	BC013
210946_	PPAP2A	phosphatidic acid phosphatase type 2A	AF0

at			03
210511_s_at	INHBA	inhibin, beta A	M13
210762_s_at	DLC1	deleted in liver cancer 1	AF019
210078_s_at	KCNAB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1	L398
210139_s_at	PMP22	peripheral myelin protein 22	L032
210051_at	RAPGEF3	Rap guanine nucleotide exchange factor (GEF) 3	U78
210069_at	CPT1B	carnitine palmitoyltransferase 1B (muscle)	U62
209866_s_at	LPHN3	latrophilin 3	AF380
210002_at	GATA6	GATA binding protein 6	D87
209782_s_at	DBP	D site of albumin promoter (albumin D-box) binding protein	U79

s_at			
209842_at	SOX10	SRY (sex determining region Y)-box 10	AI369
209621_s_at	PDLIM3	PDZ and LIM domain 3	AF080
209663_s_at	ITGA7	integrin, alpha 7	AF032
209604_s_at	GATA3	GATA binding protein 3	AI799
209616_s_at	CES1	carboxylesterase 1 (monocyte/macrophage serine esterase 1)	S73
209602_s_at	GATA3	GATA binding protein 3	AI799
209603_at	GATA3	GATA binding protein 3	AI799
209561_at	THBS3	thrombospondin 3	L389
209590_at	BMP7	bone morphogenetic protein 7 (osteogenic protein 1)	AL14
209534_x_at	AKAP13	A kinase (PRKA) anchor protein 13	BF223

209539_at	ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	D25
209496_at	RARRES2	retinoic acid receptor responder (tazarotene induced) 2	BC069
209522_s_at	CRAT	carnitine acetyltransferase	BC023
209431_s_at	PATZ1	POZ (BTB) and AT hook containing zinc finger 1	AF283
209487_at	RBPMS	RNA binding protein with multiple splicing	D84
209355_s_at	PPAP2B	phosphatidic acid phosphatase type 2B	AB089
209375_at	XPC	xeroderma pigmentosum, complementation group C	D21
209285_s_at	C3orf63	chromosome 3 open reading frame 63	N38
209289_at	NFIB	nuclear factor I/B	AI708
209264_s_at	TSPAN4	tetraspanin 4	AF041
209283_at	CRYAB	crystallin, alpha B	AF062
209185_s_at	IRS2	insulin receptor substrate 2	AF010
209263_x_at	TSPAN4	tetraspanin 4	BC089
33850_at	MAP4	microtubule-associated protein 4	W28
35776_at	ITSN1	intersectin 1 (SH3 domain protein)	AF043

222043_at	CLU	clusterin	AI984
32259_at	EZH1	enhancer of zeste homolog 1 (Drosophila)	AB086
212706_at	RASA4	RAS p21 protein activator 4	AI731
214298_x_at	6-Sep	septin 6	AL574
208868_s_at	GABARAPL1	GABA(A) receptor-associated protein like 1	BF156
209596_at	MXRA5	matrix-remodelling associated 5	AF205
202259_s_at	PFAAP5	phosphonoformate immuno-associated protein 5	NM887
202992_at	C7	complement component 7	NM587
209612_s_at	ADH1B	alcohol dehydrogenase IB (class I), beta polypeptide	M24
209613_s_at	ADH1B	alcohol dehydrogenase IB (class I), beta polypeptide	M21

203240_ at	FCGBP	Fc fragment of IgG binding protein	NM_890
205357_ s_at	AGTR1	angiotensin II receptor, type 1	NM_685
202073_ at	OPTN	optineurin	AV775
210113_ s_at	NLRP1	NLR family, pyrin domain containing 1	AF305
210102_ at	LOH11CR2 A	loss of heterozygosity, 11, chromosomal region 2, gene A	BC034
213258_ at	TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	BF531
204639_ at	ADA	adenosine deaminase	NM_022
205079_ s_at	MPDZ	multiple PDZ domain protein	NM_829
201009_ s_at	TXNIP	thioredoxin interacting protein	NM_472
201034_ at	ADD3	adducin 3 (gamma)	BE556
221511_ x_at	CCPG1	cell cycle progression 1	AF228
221564_ at	PRMT2	protein arginine methyltransferase 2	AL594
217707_ x_at	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	AI533

219935_at	ADAMTS5	ADAM metalloproteinase with thrombospondin type 1 motif, 5 (aggrecanase-2)	NM_038
213375_s_at	CG018	hypothetical gene CG018	N80
217047_s_at	FAM13A1	family with sequence similarity 13, member A1	AK038
218613_at	PSD3	pleckstrin and Sec7 domain containing 3	NM_422
222156_x_at	CCPG1	cell cycle progression 1	AK059
213306_at	MPDZ	multiple PDZ domain protein	AA999
213429_at			AW079
203603_s_at	ZEB2	zinc finger E-box binding homeobox 2	NM_795
204796_at	EML1	echinoderm microtubule associated protein like 1	NM_434
201801_s_at	SLC29A1	solute carrier family 29 (nucleoside transporters), member 1	NM_955
201117_s_at	CPE	carboxypeptidase E	NM_873
219317_at	POLI	polymerase (DNA directed) iota	NM_195
219908_at	DKK2	dickkopf homolog 2 (<i>Xenopus laevis</i>)	NM_421
213068_at	DPT	dermatopontin	AI148
213880_at	LGR5	leucine-rich repeat-containing G protein-coupled receptor 5	AL520
207977_s_at	DPT	dermatopontin	NM_937
209199_s_at	MEF2C	myocyte enhancer factor 2C	L08
204017_at	KDEL3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	NM_855
205407_at	RECK	reversion-inducing-cysteine-rich protein with kazal motifs	NM_111

212486_s_at	FYN	FYN oncogene related to SRC, FGR, YES	N20
220783_at	MMP27	matrix metalloproteinase 27	NM_122
202321_at	GGPS1	geranylgeranyl diphosphate synthase 1	AW207
213125_at	OLFML2B	olfactomedin-like 2B	AWC73
212148_at	PBX1	pre-B-cell leukemia homeobox 1	AL0481
212310_at	MIA3	melanoma inhibitory activity family, member 3	D87
205158_at	RNASE4	ribonuclease, RNase A family, 4	NM_937
212730_at	DMN	desmuslin	AK020
221024_s_at	SLC2A10	solute carrier family 2 (facilitated glucose transporter), member 10	NM_777
221833_at	LONP2	lon peptidase 2, peroxisomal	AV732
219243_at	GIMAP4	GTPase, IMAP family member 4	NM_326
219689_at	SEMA3G	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G	NM_163
203501_at	PGCP	plasma glutamate carboxypeptidase	NM_102
203801_at	MRPS14	mitochondrial ribosomal protein S14	BG253

206101_at	ECM2	extracellular matrix protein 2, female organ and adipocyte specific	NM_393
204755_x_at	HLF	hepatic leukemia factor	NM_126
215239_x_at	ZNF273	zinc finger protein 273	AU189
218370_s_at	S100PBP	S100P binding protein	NM_753
213150_at	HOXA10	homeobox A10	BF717
213158_at			BG221
221756_at	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	BE076
211732_x_at	HNMT	histamine N-methyltransferase	BC007
213247_at	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	AA707
213435_at	SATB2	SATB homeobox 2	AB057
207714_s_at	SERPINH1	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	NM_353
209466_x_at	PTN	pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1)	M57
219427_at	FAT4	FAT tumor suppressor homolog 4 (Drosophila)	NM_582
219895_at	FAM70A	family with sequence similarity 70, member A	NM_938
222316_at	VDP	vesicle docking protein p115	AW953
49452_at	ACACB	acetyl-Coenzyme A carboxylase beta	AI057
61734_at	RCN3	reticulocalbin 3, EF-hand calcium binding domain	AI794
201278_at	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	N21

220351_at	CCRL1	chemokine (C-C motif) receptor-like 1	NM_557
220988_s_at	C1QTNF3	C1q and tumor necrosis factor related protein 3	NM_945
214954_at	SUSD5	sushi domain containing 5	BF937
218162_at	OLFML3	olfactomedin-like 3	NM_190
212865_s_at	COL14A1	collagen, type XIV, alpha 1 (undulin)	BF463
213909_at	LRRC15	leucine rich repeat containing 15	AU199
210298_x_at	FHL1	four and a half LIM domains 1	AF018
210571_s_at	CMAH	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuramate monooxygenase)	AF080
209465_x_at	PTN	pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1)	AL512
209501_at	CDR2	cerebellar degeneration-related protein 2, 62kDa	AL514
205857_at	SLC18A2	solute carrier family 18 (vesicular monoamine), member 2	AI260
206726_at	PGDS	prostaglandin D2 synthase, hematopoietic	NM_485
205422_s_at	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	NM_791
205803_s_at	TRPC1	transient receptor potential cation channel, subfamily C, member 1	NM_304
205051_s_at	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	NM_222
205382_s_at	CFD	complement factor D (adipsin)	NM_928
204154_at	CDO1	cysteine dioxygenase, type I	NM_801

204160_s_at	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	NM_936
203874_s_at	SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1	M88
203886_s_at	FBLN2	fibulin 2	NM_998
211737_x_at	PTN	pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1)	BC016
212670_at	ELN	elastin (supravalvular aortic stenosis, Williams-Beuren syndrome)	AA478
209406_at	BAG2	BCL2-associated athanogene 2	AF092
211062_s_at	CPZ	carboxypeptidase Z	BC093
205498_at	GHR	growth hormone receptor	NM_163
205907_s_at	OMD	osteomodulin	AI769
202733_at	P4HA2	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II	NM_199
207543_s_at	P4HA1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I	NM_917
219284_at	HSPBAP1	HSPB (heat shock 27kDa) associated protein 1	NM_610
220711_at			NM_978

GENES MODULATED DIFFERENTLY IN RESPONDERS AND NON-RES

R_0	Mean expression value estimate (Log2) for Responders in LS skin
R_1	Mean expression value estimate (Log2) for Responders in LS at Wk 1
R_2	Mean expression value estimate (Log2) for Responders in LS at Wk 2
R_4	Mean expression value estimate (Log2) for Responders in LS at Wk 4
R_12	Mean expression value estimate (Log2) for Responders in LS at Wk 12
R_NL	Mean expression value estimate (Log2) for Responders in NL skin at baseline
NR_0	Mean expression value estimate (Log2) for Non-Responders in LS skin
NR_1	Mean expression value estimate (Log2) for Non-Responders in LS at Wk 1
NR_2	Mean expression value estimate (Log2) for Non-Responders in LS at Wk 2
NR_4	Mean expression value estimate (Log2) for Non-Responders in LS at Wk 4
NR_12	Mean expression value estimate (Log2) for Non-Responders in LS at Wk 12
NR_NL	Mean expression value estimate (Log2) for Non-Responders in LS at Wk 12
Cluster	Final cluster membership

Probe	Symbol	Description
208018_s_at	HCK	hemopoietic cell kinase
203058_s_at	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2
208813_at	GOT1	glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)

219198_at	GTF3C4	general transcription factor IIIC, polypeptide 4, 90kDa
219956_at	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)
206562_s_at	CSNK1A1	casein kinase 1, alpha 1
206643_at	HAL	histidine ammonia-lyase
206036_s_at	REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)
206125_s_at	KLK8	kallikrein-related peptidase 8
204331_s_at	MRPS12	mitochondrial ribosomal protein S12
205064_at	SPRR1B	small proline-rich protein 1B (cornifin)
204174_at	ALOX5AP	arachidonate 5-lipoxygenase-activating protein
204203_at	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma

203740_at	MPHOSP H6	M-phase phosphoprotein 6
203888_at	THBD	thrombomodulin
202917_s_at	S100A8	S100 calcium binding protein A8
203535_at	S100A9	S100 calcium binding protein A9
202264_s_at	TOMM40	translocase of outer mitochondrial membrane 40 homolog (yeast)
202787_s_at	MAPKAPK 3	mitogen-activated protein kinase-activated protein kinase 3
201516_at	SRM	spermidine synthase
201912_s_at	GSPT1	G1 to S phase transition 1
201196_s_at	AMD1	adenosylmethionine decarboxylase 1
201490_s_at	PPIF	peptidylprolyl isomerase F (cyclophilin F)
211572_	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2

s_at		
220745_at	IL19	interleukin 19
221245_s_at	FZD5	frizzled homolog 5 (Drosophila)
221704_s_at	VPS37B	vacuolar protein sorting 37 homolog B (S. cerevisiae)
219795_at	SLC6A14	solute carrier family 6 (amino acid transporter), member 14
220249_at	HYAL4	hyaluronoglucosaminidase 4
216905_s_at	ST14	suppression of tumorigenicity 14 (colon carcinoma)
217738_at	NAMPT	nicotinamide phosphoribosyltransferase
216316_x_at	GK	glycerol kinase
216834_at	RGS1	regulator of G-protein signaling 1
215966_	GK3P	glycerol kinase 3 pseudogene

x_at		
215977_x_at	GK	glycerol kinase
215103_at	CYP2C18	cytochrome P450, family 2, subfamily C, polypeptide 18
215223_s_at	SOD2	superoxide dismutase 2, mitochondrial
212976_at	LRRC8B	leucine rich repeat containing 8 family, member B
213523_at	CCNE1	cyclin E1
210827_s_at	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)
211429_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1

210001_s_at	SOCS1	suppressor of cytokine signaling 1
210567_s_at	SKP2	S-phase kinase-associated protein 2 (p45)
209236_at	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2
209853_s_at	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)
207500_at	CASP5	caspase 5, apoptosis-related cysteine peptidase
209100_at	IFRD2	interferon-related developmental regulator 2
206336_at	CXCL6	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
206529_x_at	SLC26A4	solute carrier family 26, member 4
205239_at	AREG	amphiregulin

205633_s_at	ALAS1	aminolevulinate, delta-, synthase 1
204440_at	CD83	CD83 molecule
204858_s_at	TYMP	thymidine phosphorylase
203665_at	HMOX1	heme oxygenase (decycling) 1
203904_x_at	CD82	CD82 molecule
203234_at	UPP1	uridine phosphorylase 1
203499_	EPHA2	EPH receptor A2

at		
203127_s_at	SPTLC2	serine palmitoyltransferase, long chain base subunit 2
203233_at	IL4R	interleukin 4 receptor
202833_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
202988_s_at	RGS1	regulator of G-protein signaling 1
202575_at	CRABP2	cellular retinoic acid binding protein 2
202779_s_at	UBE2S	ubiquitin-conjugating enzyme E2S
201243_s_at	ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
201473_at	JUNB	jun B proto-oncogene
203968_s_at	CDC6	cell division cycle 6 homolog (<i>S. cerevisiae</i>)

38037_at	HBEGF	heparin-binding EGF-like growth factor
203821_at	HBEGF	heparin-binding EGF-like growth factor
208893_s_at	DUSP6	dual specificity phosphatase 6
205015_s_at	TGFA	transforming growth factor, alpha
209237_s_at	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2
222223_s_at	IL1F5	interleukin 1 family, member 5 (delta)
204493_at	BID	BH3 interacting domain death agonist

220664_at	SPRR2C	small proline-rich protein 2C (pseudogene)
222037_at	MCM4	minichromosome maintenance complex component 4
218810_at	ZC3H12A	zinc finger CCCH-type containing 12A
219680_at	NLRX1	NLR family member X1
216212_s_at	DKC1	dyskeratosis congenita 1, dyskerin
217185_s_at	LOC442240	similar to zinc finger protein 259
213421_x_at	PRSS3	protease, serine, 3
214011_s_at	HSPC111	hypothetical protein HSPC111
210754_s_at	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
212141_at	MCM4	minichromosome maintenance complex component 4
209792_s_at	KLK10	kallikrein-related peptidase 10

209800_ at	KRT16	keratin 16
209727_ at	GM2A	GM2 ganglioside activator
209772_ s_at	CD24	CD24 molecule
209126_ x_at	KRT6B	keratin 6B
209514_ s_at	RAB27A	RAB27A, member RAS oncogene family
208992_ s_at	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)
209093_ s_at	GBA	glucosidase, beta; acid (includes glucosylceramidase)

208002_ s_at	ACOT7	acyl-CoA thioesterase 7
208433_ s_at	LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor
207381_ at	ALOX12B	arachidonate 12-lipoxygenase, 12R type
207463_ x_at	PRSS3	protease, serine, 3
206788_ s_at	CBFB	core-binding factor, beta subunit
207367_ at	ATP12A	ATPase, H+/K+ transporting, nongastric, alpha polypeptide
206499_ s_at	RCC1	regulator of chromosome condensation 1

206628_at	SLC5A1	solute carrier family 5 (sodium/glucose cotransporter), member 1
206008_at	TGM1	transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)
206472_s_at	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)
205895_s_at	NOLC1	nucleolar and coiled-body phosphoprotein 1
206004_at	TGM3	transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase)
205595_at	DSG3	desmoglein 3 (pemphigus vulgaris antigen)
205847_at	PRSS22	protease, serine, 22
205349_at	GNA15	guanine nucleotide binding protein (G protein), alpha 15 (Gq class)
205476_at	CCL20	chemokine (C-C motif) ligand 20
204767_s_at	FEN1	flap structure-specific endonuclease 1

205014_at	FGFBP1	fibroblast growth factor binding protein 1
203128_at	SPTLC2	serine palmitoyltransferase, long chain base subunit 2
203147_s_at	TRIM14	tripartite motif-containing 14
202068_s_at	LDLR	low density lipoprotein receptor
202712_s_at	CKMT1B	creatine kinase, mitochondrial 1B
201531_at	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)
201583_s_at	SEC23B	Sec23 homolog B (<i>S. cerevisiae</i>)
200874_s_at	NOL5A	nucleolar protein 5A (56kDa with KKE/D repeat)
201489_at	PPIF	peptidylprolyl isomerase F (cyclophilin F)

200648_s_at	GLUL	glutamate-ammonia ligase (glutamine synthetase)
200731_s_at	PTP4A1	protein tyrosine phosphatase type IVA, member 1
220599_s_at	CARD14	caspase recruitment domain family, member 14
39249_at	AQP3	aquaporin 3 (Gill blood group)
220318_at	EPN3	epsin 3
220322_at	IL1F9	interleukin 1 family, member 9
219695_at	SMPD3	sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)
220013_at	ABHD9	abhydrolase domain containing 9
219403_s_at	HPSE	heparanase
219630_at	PDZK1IP1	PDZK1 interacting protein 1
219272_at	TRIM62	tripartite motif-containing 62
219358_s_at	CENTA2	centaurin, alpha 2

218295_s_at	NUP50	nucleoporin 50kDa
218900_at	CNNM4	cyclin M4
217202_s_at	GLUL	glutamate-ammonia ligase (glutamine synthetase)
217755_at	HN1	hematological and neurological expressed 1
216684_s_at	SS18	synovial sarcoma translocation, chromosome 18
217140_s_at	LOC100132302	similar to Voltage-dependent anion-selective channel protein 1 (VDAC-1) (hVDAC1) (Outer mitochondrial membrane porin 1) (Plasmalemmal porin) (Porin 31HL) (Porin 31HM)
216258_s_at	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13
216379_x_at		
215465_at	ABCA12	ATP-binding cassette, sub-family A (ABC1), member 12
215728_s_at	ACOT7	acyl-CoA thioesterase 7
214490_at	ARSF	arylsulfatase F
214549_x_at	SPRR1A	small proline-rich protein 1A
214070_s_at	ATP10B	ATPase, class V, type 10B
214205_x_at	GLRX3	glutaredoxin 3
213562_s_at	SQLE	squalene epoxidase

213796_at	SPRR1A	small proline-rich protein 1A
213060_s_at	CHI3L2	chitinase 3-like 2
213470_s_at	HNRNPH1	heterogeneous nuclear ribonucleoprotein H1 (H)
211367_s_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
212531_at	LCN2	lipocalin 2
211015_s_at	HSPA4	heat shock 70kDa protein 4
211366_x_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
210663_s_at	KYNU	kynureninase (L-kynurenine hydrolase)
210951_x_at	RAB27A	RAB27A, member RAS oncogene family
209872_s_at	PKP3	plakophilin 3
210413_x_at	SERPINB4	serpin peptidase inhibitor, clade B (ovalbumin), member 4
209719_	SERPINB3	serpin peptidase inhibitor, clade B (ovalbumin), member 3

x_at		
209771_x_at		
208651_x_at	CD24	CD24 molecule
209372_x_at	TUBB2A	tubulin, beta 2A
208596_s_at	UGT1A3	UDP glucuronosyltransferase 1 family, polypeptide A3
208650_s_at	CD24	CD24 molecule

207622_s_at	ABCF2	ATP-binding cassette, sub-family F (GCN20), member 2
208539_x_at	SPRR2D	small proline-rich protein 2D
216237_s_at	MCM5	minichromosome maintenance complex component 5
217167_x_at	GK	glycerol kinase
205829_at	HSD17B1	hydroxysteroid (17-beta) dehydrogenase 1
205863_at	S100A12	S100 calcium binding protein A12
218498_s_at	ERO1L	ERO1-like (<i>S. cerevisiae</i>)
207720_at	LOR	loricrin

210212_x_at	MTCP1	mature T-cell proliferation 1
209205_s_at	LMO4	LIM domain only 4
209206_at	SEC22B	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>)
205467_at	CASP10	caspase 10, apoptosis-related cysteine peptidase
206953_s_at	LPHN2	latrophilin 2
205074_at	SLC22A5	solute carrier family 22 (organic cation/carnitine transporter), member 5
205191_at	RP2	retinitis pigmentosa 2 (X-linked recessive)
203803_at	PCYOX1	prenylcysteine oxidase 1
203881_s_at	DMD	dystrophin
212148_	PBX1	pre-B-cell leukemia homeobox 1

at		
212327_at	LIMCH1	LIM and calponin homology domains 1
204041_at	MAOB	monoamine oxidase B
204568_at	KIAA0831	KIAA0831
221188_s_at	CIDEB	cell death-inducing DFFA-like effector b
222111_at		
213657_s_at		
203080_s_at	BAZ2B	bromodomain adjacent to zinc finger domain, 2B
203202_at	KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast)
201836_s_at	SUPT7L	suppressor of Ty 7 (<i>S. cerevisiae</i>)-like
201843_s_at	EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1
201661_s_at	ACSL3	acyl-CoA synthetase long-chain family member 3
201824_at	RNF14	ring finger protein 14

201124_at	ITGB5	integrin, beta 5
201449_at	TIA1	TIA1 cytotoxic granule-associated RNA binding protein
200719_at	SKP1	S-phase kinase-associated protein 1
200856_x_at	LOC100133918	similar to nuclear receptor co-repressor 1
221213_s_at	ZNF280D	zinc finger protein 280D
44783_s_at	HEY1	hairy/enhancer-of-split related with YRPW motif 1
220351_at	CCRL1	chemokine (C-C motif) receptor-like 1
220988_s_at	C1QTNF3	C1q and tumor necrosis factor related protein 3
219518_s_at	ELL3	elongation factor RNA polymerase II-like 3
220244_at	LOH3CR2A	loss of heterozygosity, 3, chromosomal region 2, gene A
219213_at	JAM2	junctional adhesion molecule 2

219517_at	ELL3	elongation factor RNA polymerase II-like 3
218641_at	MGC3032	hypothetical protein MGC3032
219132_at	PELI2	pellino homolog 2 (Drosophila)
218532_s_at	FAM134B	family with sequence similarity 134, member B
218633_x_at	ABHD10	abhydrolase domain containing 10
218437_s_at	LZTFL1	leucine zipper transcription factor-like 1
218490_s_at	ZNF302	zinc finger protein 302
218309_at	CAMK2N1	calcium/calmodulin-dependent protein kinase II inhibitor 1
218370_s_at	S100PBP	S100P binding protein
216320_x_at	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)
216331_at	ITGA7	integrin, alpha 7
214152_at	CCPG1	cell cycle progression 1
214454_at	ADAMTS2	ADAM metallopeptidase with thrombospondin type 1 motif, 2
213496_at	LPPR4	plasticity related gene 1
214151_s_at	CCPG1	cell cycle progression 1
213106_at	ATP8A1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1

213397_x_at	ANG	angiogenin, ribonuclease, RNase A family, 5
213010_at	PRKCDBP	protein kinase C, delta binding protein
213075_at	OLFML2A	olfactomedin-like 2A
212675_s_at	CEP68	centrosomal protein 68kDa
212690_at	DDHD2	DDHD domain containing 2
212328_at	LIMCH1	LIM and calponin homology domains 1
212503_s_at	DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)
210571_s_at	CMAH	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuramate monooxygenase) pseudo
212097_at	CAV1	caveolin 1, caveolae protein, 22kDa

209656_s_at	TMEM47	transmembrane protein 47
210102_at	VWA5A	von Willebrand factor A domain containing 5A
209200_at	MEF2C	myocyte enhancer factor 2C
209291_at	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
205609_at	ANGPT1	angiopoietin 1
208760_at	UBE2I	ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)
205158_at	RNASE4	ribonuclease, RNase A family, 4
205225_at	ESR1	estrogen receptor 1

204992_s_at	PFN2	profilin 2
205076_s_at	MTMR11	myotubularin related protein 11
204797_s_at	EML1	echinoderm microtubule associated protein like 1
204838_s_at	MLH3	mutL homolog 3 (E. coli)
204686_at	IRS1	insulin receptor substrate 1
204788_s_at	PPOX	protoporphyrinogen oxidase
203919_at	TCEA2	transcription elongation factor A (SII), 2
204276_at	TK2	thymidine kinase 2, mitochondrial
203723_s_at	ITPKB	inositol 1,4,5-trisphosphate 3-kinase B

at		
203874_s_at	SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1
203065_s_at	CAV1	caveolin 1, caveolae protein, 22kDa
203335_at	PHYH	phytanoyl-CoA 2-hydroxylase
202468_s_at	CTNNAL1	catenin (cadherin-associated protein), alpha-like 1
202973_x_at	FAM13A1	family with sequence similarity 13, member A1
202321_at	GGPS1	geranylgeranyl diphosphate synthase 1

202350_s_at	MATN2	matrilin 2
201117_s_at	CPE	carboxypeptidase E
202125_s_at	TRAK2	trafficking protein, kinesin binding 2
205614_x_at	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)
221756_at	PIK3IP1	phosphoinositide-3-kinase interacting protein 1
218418_s_at	KANK2	KN motif and ankyrin repeat domains 2
219440_at	RAI2	retinoic acid induced 2
213369_at	PCDH21	protocadherin 21
213455_at	FAM114A1	family with sequence similarity 114, member A1
212299_at	NEK9	NIMA (never in mitosis gene a)- related kinase 9
213249_at	FBXL7	F-box and leucine-rich repeat protein 7
208158_s_at	OSBPL1A	oxysterol binding protein-like 1A
210135_s_at	SHOX2	short stature homeobox 2
205932_s_at	MSX1	msh homeobox 1
206149_	CHP2	calcineurin B homologous protein 2

at		
204151_x_at	AKR1C1	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
204939_s_at	PLN	phospholamban
202500_at	DNAJB2	DnaJ (Hsp40) homolog, subfamily B, member 2
202733_at	P4HA2	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II
65472_at	C2orf68	chromosome 2 open reading frame 68
202289_s_at	TACC2	transforming, acidic coiled-coil containing protein 2
45297_at	EHD2	EH-domain containing 2
64942_at	GPR153	G protein-coupled receptor 153
38892_at	KIAA0240	KIAA0240
40446_at	PHF1	PHD finger protein 1
222156_x_at	CCPG1	cell cycle progression 1
222273_at	PAPOLG	poly(A) polymerase gamma
221974_at	SNRPN	small nuclear ribonucleoprotein polypeptide N

222125_s_at	PH-4	hypoxia-inducible factor prolyl 4-hydroxylase
221833_at	SIAH1	seven in absentia homolog 1 (Drosophila)
221864_at	ORAI3	ORAI calcium release-activated calcium modulator 3
221735_at	WDR48	WD repeat domain 48
221749_at	YTHDF3	YTH domain family, member 3
221589_s_at	ALDH6A1	aldehyde dehydrogenase 6 family, member A1
221645_s_at	ZNF83	zinc finger protein 83
221543_s_at	ERLIN2	ER lipid raft associated 2
221554_at	LYK5	protein kinase LYK5
221511_x_at	CCPG1	cell cycle progression 1
221523_s_at	RRAGD	Ras-related GTP binding D
221208_	C11orf61	chromosome 11 open reading frame 61

s_at		
221510_s_at	GLS	glutaminase
221090_s_at	OGFOD1	2-oxoglutarate and iron-dependent oxygenase domain containing 1
221156_x_at	CCPG1	cell cycle progression 1
220974_x_at	SFXN3	sideroflexin 3
221014_s_at	RAB33B	RAB33B, member RAS oncogene family
220432_s_at	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1
220744_s_at	IFT122	intraflagellar transport 122 homolog (Chlamydomonas)
219909_at	MMP28	matrix metalloproteinase 28
220402_at	P53AIP1	p53-regulated apoptosis-inducing protein 1
219833_s_at	EFHC1	EF-hand domain (C-terminal) containing 1
219848_s_at	ZNF432	zinc finger protein 432
219765_at	ZNF329	zinc finger protein 329

219802_at	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1
219407_s_at	LAMC3	laminin, gamma 3
219487_at	BBS10	Bardet-Biedl syndrome 10
219376_at	ZNF322A	zinc finger protein 322A
219401_at	XYLT2	xylosyltransferase II
219284_at	HSPBAP1	HSPB (heat shock 27kDa) associated protein 1
219353_at	NHLRC2	NHL repeat containing 2
219069_at	ANKRD49	ankyrin repeat domain 49
219274_at	TSPAN12	tetraspanin 12
218878_s_at	SIRT1	sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)
218909_at	RPS6KC1	ribosomal protein S6 kinase, 52kDa, polypeptide 1
218761_at	RNF111	ring finger protein 111
218789_s_at	C11orf71	chromosome 11 open reading frame 71

218718_ at	PDGFC	platelet derived growth factor C
218757_ s_at	UPF3B	UPF3 regulator of nonsense transcripts homolog B (yeast)
218694_ at	ARMCX1	armadillo repeat containing, X-linked 1
218701_ at	LACTB2	lactamase, beta 2
218651_ s_at	LARP6	La ribonucleoprotein domain family, member 6
218683_ at	PTBP2	polypyrimidine tract binding protein 2
218574_ s_at	LMCD1	LIM and cysteine-rich domains 1
218637_ at	IMPACT	Impact homolog (mouse)
218528_ s_at	RNF38	ring finger protein 38
218546_ at	C1orf115	chromosome 1 open reading frame 115
218456_ at	CAPRIN2	caprin family member 2
218491_ s_at	THYN1	thymocyte nuclear protein 1
218352_ at	RCBTB1	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 1
218361_ at	GOLPH3L	golgi phosphoprotein 3-like
218304_ s_at	OSBPL11	oxysterol binding protein-like 11
218346_ s_at	SESN1	sestrin 1
218168_ s_at	CABC1	chaperone, ABC1 activity of bc1 complex homolog (S. pombe)
218285_ s_at	BDH2	3-hydroxybutyrate dehydrogenase, type 2

217935_s_at	UQCC	ubiquinol-cytochrome c reductase complex chaperone
217954_s_at	PHF3	PHD finger protein 3
217853_at	TNS3	tensin 3
217894_at	KCTD3	potassium channel tetramerisation domain containing 3
216321_s_at	NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
217800_s_at	NDFIP1	Nedd4 family interacting protein 1
214843_s_at	USP33	ubiquitin specific peptidase 33
215012_at	ZNF451	zinc finger protein 451
214724_at	DIXDC1	DIX domain containing 1
214749_s_at	ARMCX6	armadillo repeat containing, X-linked 6
214683_s_at	CLK1	CDC-like kinase 1
214686_at	ZNF266	zinc finger protein 266
214132_at	ATP5C1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, gamma polypeptide 1

214186_s_at	3.8-1	MHC class I mRNA fragment 3.8-1
213982_s_at	RABGAP1 L	RAB GTPase activating protein 1-like
214036_at		
213675_at		
213895_at	EMP1	epithelial membrane protein 1
213592_at	APLNR	apelin receptor
213626_at	CBR4	carbonyl reductase 4
213480_at	VAMP4	vesicle-associated membrane protein 4
213500_at		
213304_at	FAM179B	family with sequence similarity 179, member B
213331_s_at	NEK1	NIMA (never in mitosis gene a)-related kinase 1
213169_at	SEMA5A	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A
213213_at	DIDO1	death inducer-obliterator 1
212984_at	ATF2	activating transcription factor 2
213020_at	GOSR1	golgi SNAP receptor complex member 1

212981_s_at	FAM115A	family with sequence similarity 115, member A
212982_at	ZDHHC17	zinc finger, DHHC-type containing 17
212847_at	FUBP1	far upstream element (FUSE) binding protein 1
212893_at	ZZZ3	zinc finger, ZZ-type containing 3
212761_at	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)
212762_s_at	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)
212752_at	CLASP1	cytoplasmic linker associated protein 1

212756_s_at	UBR2	ubiquitin protein ligase E3 component n-recognin 2
212631_at	STX7	syntaxin 7
212669_at	CAMK2G	calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma
212549_at	STAT5B	signal transducer and activator of transcription 5B
212628_at	PKN2	protein kinase N2
212510_at	GPD1L	glycerol-3-phosphate dehydrogenase 1-like

212511_at	PICALM	phosphatidylinositol binding clathrin assembly protein
212310_at	MIA3	melanoma inhibitory activity family, member 3
212504_at	DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)
212243_at	GRINL1A	glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A
212305_s_at	MIA3	melanoma inhibitory activity family, member 3
212122_at	RHOQ	ras homolog gene family, member Q
212158_at	SDC2	syndecan 2
212060_at	SR140	U2-associated SR140 protein
212061_at	SR140	U2-associated SR140 protein
210346_s_at	CLK4	CDC-like kinase 4
211105_s_at	NFATC1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
209894_at	LEPR	leptin receptor

210239_at	IRX5	iroquois homeobox 5
209815_at	PTCH1	patched homolog 1 (Drosophila)
209884_s_at	SLC4A7	solute carrier family 4, sodium bicarbonate cotransporter, member 7
209537_at	EXTL2	exostoses (multiple)-like 2
209568_s_at	RGL1	ral guanine nucleotide dissociation stimulator-like 1
209497_s_at	RBM4B	RNA binding motif protein 4B
209501_at	CDR2	cerebellar degeneration-related protein 2, 62kDa
209484_s_at	NSL1	NSL1, MIND kinetochore complex component, homolog (S. cerevisiae)
209487_at	RBPMS	RNA binding protein with multiple splicing
209323_at	PRKRIR	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor)

209422_ at	PHF20	PHD finger protein 20
209300_ s_at	NECAP1	NECAP endocytosis associated 1
209307_ at	SWAP70	SWAP-70 protein
209268_ at	VPS45	vacuolar protein sorting 45 homolog (<i>S. cerevisiae</i>)
209298_ s_at	ITSN1	intersectin 1 (SH3 domain protein)
209112_ at	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
209167_ at	GPM6B	glycoprotein M6B
209031_ at	CADM1	cell adhesion molecule 1

209064_x_at	LOC645139	hypothetical LOC645139
208986_at	TCF12	transcription factor 12
209005_at	FBXL5	F-box and leucine-rich repeat protein 5
208913_at	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2
208939_at	SEPHS1	selenophosphate synthetase 1
208398_s_at	TBPL1	TBP-like 1
208848_at	ADH5	alcohol dehydrogenase 5 (class III), chi polypeptide
207719_x_at	CEP170	centrosomal protein 170kDa
207753_at	ZNF304	zinc finger protein 304
206555_	THUMPD1	THUMP domain containing 1

s_at		
207625_s_at	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2
205928_at	ZNF443	zinc finger protein 443
206539_s_at	CYP4F12	cytochrome P450, family 4, subfamily F, polypeptide 12
205726_at	DIAPH2	diaphanous homolog 2 (Drosophila)
205794_s_at	NOVA1	neuro-oncological ventral antigen 1
205664_at	KIN	KIN, antigenic determinant of recA protein homolog (mouse)
205684_s_at	DENND4C	DENN/MADD domain containing 4C
205516_x_at	CIZ1	CDKN1A interacting zinc finger protein 1
205558_at	TRAF6	TNF receptor-associated factor 6
205437_at	ZNF211	zinc finger protein 211
205453_at	HOXB2	homeobox B2
205003_s_at	DOCK4	dedicator of cytokinesis 4

at		
205006_s_at	NMT2	N-myristoyltransferase 2
204643_s_at	ENOX2	ecto-NOX disulfide-thiol exchanger 2
204937_s_at	ZNF274	zinc finger protein 274
204464_s_at	EDNRA	endothelin receptor type A
204523_at	ZNF140	zinc finger protein 140
204291_at	ZNF518A	zinc finger protein 518A
204303_s_at	KIAA0427	KIAA0427
204176_at	KLHL20	kelch-like 20 (Drosophila)
204237_at	GULP1	GULP, engulfment adaptor PTB domain containing 1
204062_s_at	ULK2	unc-51-like kinase 2 (C. elegans)
204069_at	MEIS1	Meis homeobox 1
203981_s_at	ABCD4	ATP-binding cassette, sub-family D (ALD), member 4

204030_s_at	SCHIP1	schwannomin interacting protein 1
203905_at	PARN	poly(A)-specific ribonuclease (deadenylation nuclease)
203935_at	ACVR1	activin A receptor, type I
203825_at	BRD3	bromodomain containing 3
203855_at	WDR47	WD repeat domain 47
203810_at	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4
203822_s_at	ELF2	E74-like factor 2 (ets domain transcription factor)
203710_at	ITPR1	inositol 1,4,5-triphosphate receptor, type 1

203794_at	CDC42BP A	CDC42 binding protein kinase alpha (DMPK-like)
203614_at	UTP14C	UTP14, U3 small nucleolar ribonucleoprotein, homolog C (yeast)
203680_at	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta
203556_at	ZHX2	zinc fingers and homeoboxes 2
203562_at	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)
203494_s_at	CEP57	centrosomal protein 57kDa
203521_s_at	ZNF318	zinc finger protein 318
203448_s_at	TERF1	telomeric repeat binding factor (NIMA-interacting) 1
203449_s_at	TERF1	telomeric repeat binding factor (NIMA-interacting) 1

203284_s_at	HS2ST1	heparan sulfate 2-O-sulfotransferase 1
203323_at	CAV2	caveolin 2
202979_s_at	CREBZF	CREB/ATF bZIP transcription factor
202983_at	HLTF	helicase-like transcription factor
202732_at	PKIG	protein kinase (cAMP-dependent, catalytic) inhibitor gamma
202769_at	CCNG2	cyclin G2
202651_at	LPGAT1	lysophosphatidylglycerol acyltransferase 1
202660_at	ITPR2	inositol 1,4,5-triphosphate receptor, type 2

202598_at	S100A13	S100 calcium binding protein A13
202630_at	APPBP2	amyloid beta precursor protein (cytoplasmic tail) binding protein 2
202551_s_at	CRIM1	cysteine rich transmembrane BMP regulator 1 (chordin-like)
202557_at	HSPA13	heat shock protein 70kDa family, member 13
202409_at	IGF2	insulin-like growth factor 2 (somatomedin A)
202512_s_at	ATG5	ATG5 autophagy related 5 homolog (S. cerevisiae)
202265_at	BMI1	BMI1 polycomb ring finger oncogene
202342_s_at	TRIM2	tripartite motif-containing 2
202173_s_at	VEZF1	vascular endothelial zinc finger 1
202260_s_at	STXBP1	syntaxin binding protein 1
202073_at	OPTN	optineurin
202172_at	VEZF1	vascular endothelial zinc finger 1

201918_at	SLC25A36	solute carrier family 25, member 36
201986_at	MED13	mediator complex subunit 13
204294_at	AMT	aminomethyltransferase
204671_s_at	ANKRD6	ankyrin repeat domain 6
221470_s_at	IL1F7	interleukin 1 family, member 7 (zeta)
203249_at	EZH1	enhancer of zeste homolog 1 (Drosophila)
213118_at	UHRF1BP1L	UHRF1 binding protein 1-like
211379_x_at	B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)
212985_at	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2
220369_at	SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)
221715_at		
211466_at	NFIB	nuclear factor I/B

at		
217695_x_at		
210282_at	ZMYM2	zinc finger, MYM-type 2
210985_s_at	SP100	SP100 nuclear antigen
206757_at	PDE5A	phosphodiesterase 5A, cGMP-specific
208262_x_at	MEFV	Mediterranean fever
206438_x_at	TCTN2	tectonic family member 2
206514_s_at	CYP4F3	cytochrome P450, family 4, subfamily F, polypeptide 3
211133_x_at	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
221712_s_at	WDR74	WD repeat domain 74
203672_x_at	TPMT	thiopurine S-methyltransferase
213006_at	CEBPD	CCAAT/enhancer binding protein (C/EBP), delta
211712_s_at	ANXA9	annexin A9
202179_at	BLMH	bleomycin hydrolase

210085_s_at	ANXA9	annexin A9
213707_s_at	DLX5	distal-less homeobox 5
220413_at	SLC39A2	solute carrier family 39 (zinc transporter), member 2
205464_at	SCNN1B	sodium channel, nonvoltage-gated 1, beta
213820_s_at	STARD5	STAR-related lipid transfer (START) domain containing 5
210015_s_at	MAP2	microtubule-associated protein 2
210052_s_at	TPX2	TPX2, microtubule-associated, homolog (<i>Xenopus laevis</i>)
214077_x_at	MEIS3P1	Meis homeobox 3 pseudogene 1
218541_s_at	C8orf4	chromosome 8 open reading frame 4
204075_s_at	KIAA0562	KIAA0562
205169_at	RBBP5	retinoblastoma binding protein 5
219446_at	RIC8B	resistance to inhibitors of cholinesterase 8 homolog B (<i>C. elegans</i>)
222162_s_at	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1

209426_ s_at	AMACR	alpha-methylacyl-CoA racemase
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Online Repository Table 5. GSEA table responders versus non-responders.

GS ^a	SIZE	ES ^b	NES _c	p-value	FDR ^d
IL17 & TNF	36	-0.91	-2.95	0.000	0.000
IL17 specific	19	-0.84	-2.33	0.000	0.000
IFN γ	1184	-0.42	-2.12	0.000	0.000
TNF specific	557	-0.38	-1.82	0.000	0.001

^aGS gene set

^bES enrichment score

^cNES normalized enrichment score

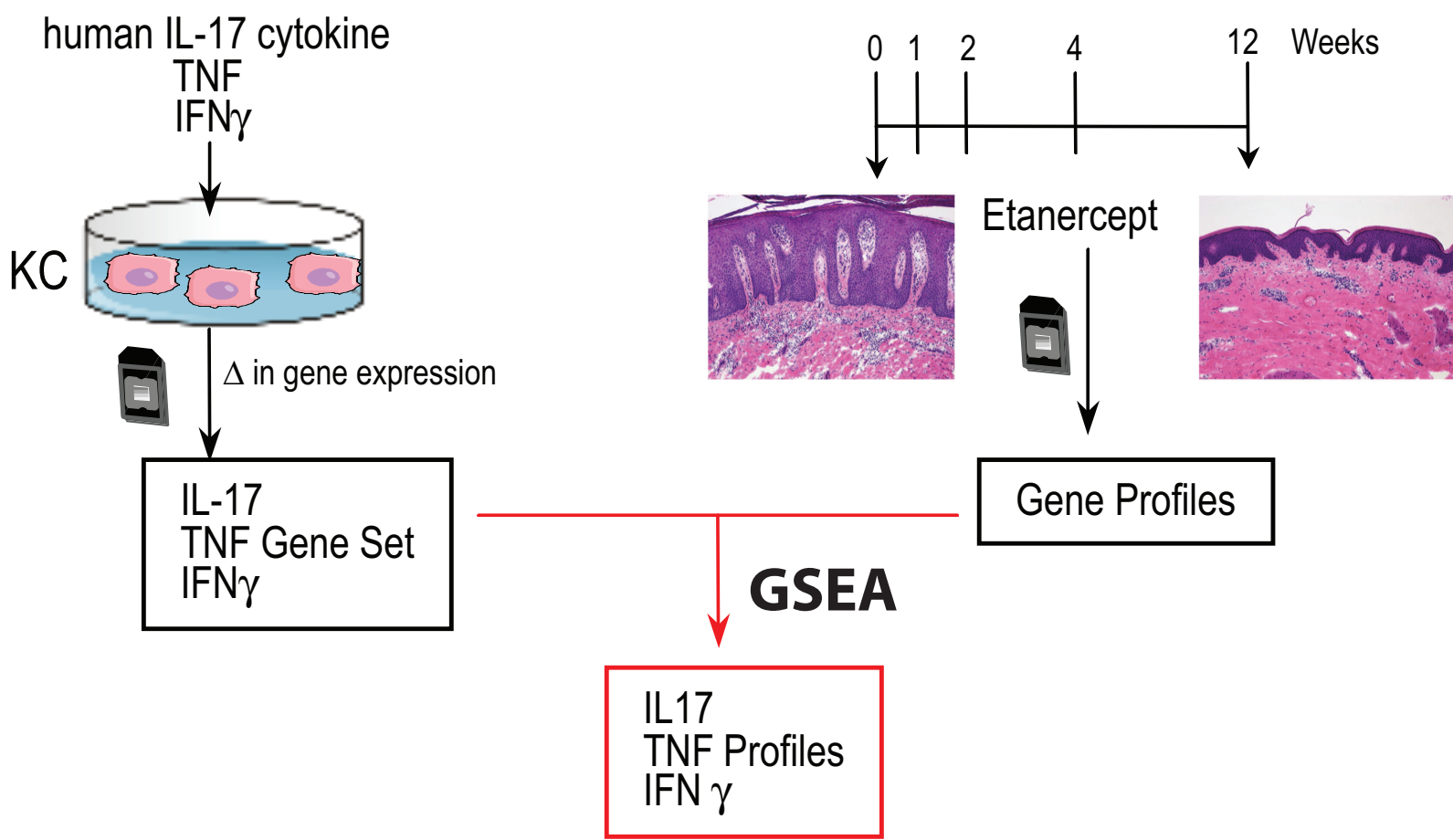
^dFDR false discovery rate

Online Repository Table 6. GSEA table for responders.

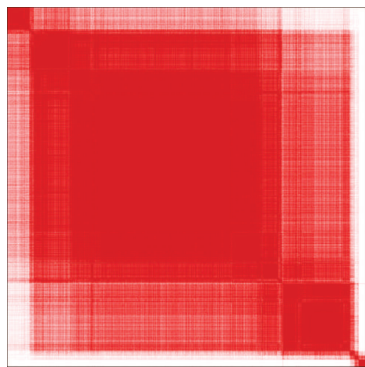
GS ^a	SIZE	ES ^b	NES ^c	p-value	FDR ^d
IL-17 & TNF	36	-0.90	-2.84	0.000	0.000
IL-17 specific	19	-0.86	-2.38	0.000	0.000
IFN γ	1184	-0.41	-2.10	0.000	0.000
TNF specific	557	-0.38	-1.86	0.000	0.003

^aGS gene set^bES enrichment score^cNES normalized enrichment score^dFDR false discovery rate

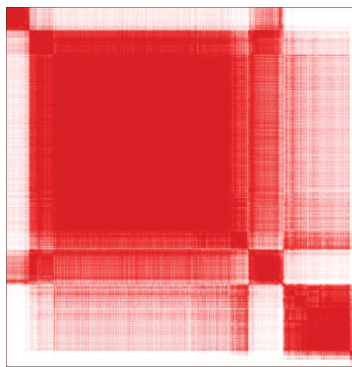
Online Repository Figure 1



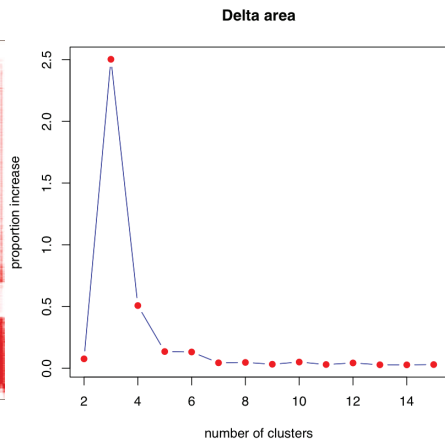
a. Down



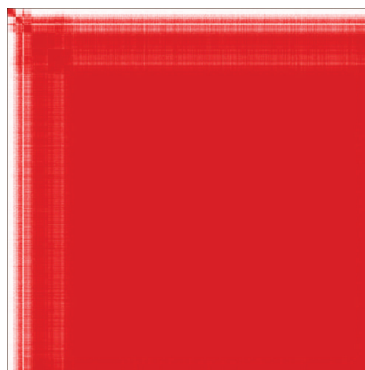
k=3



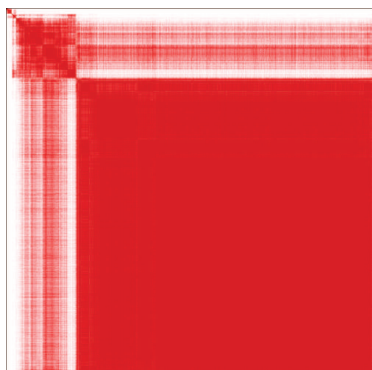
k=4



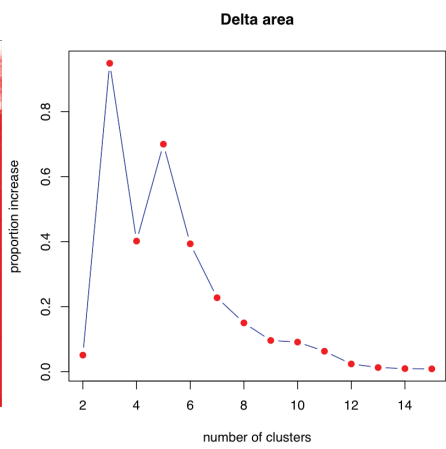
b. Up



k=3

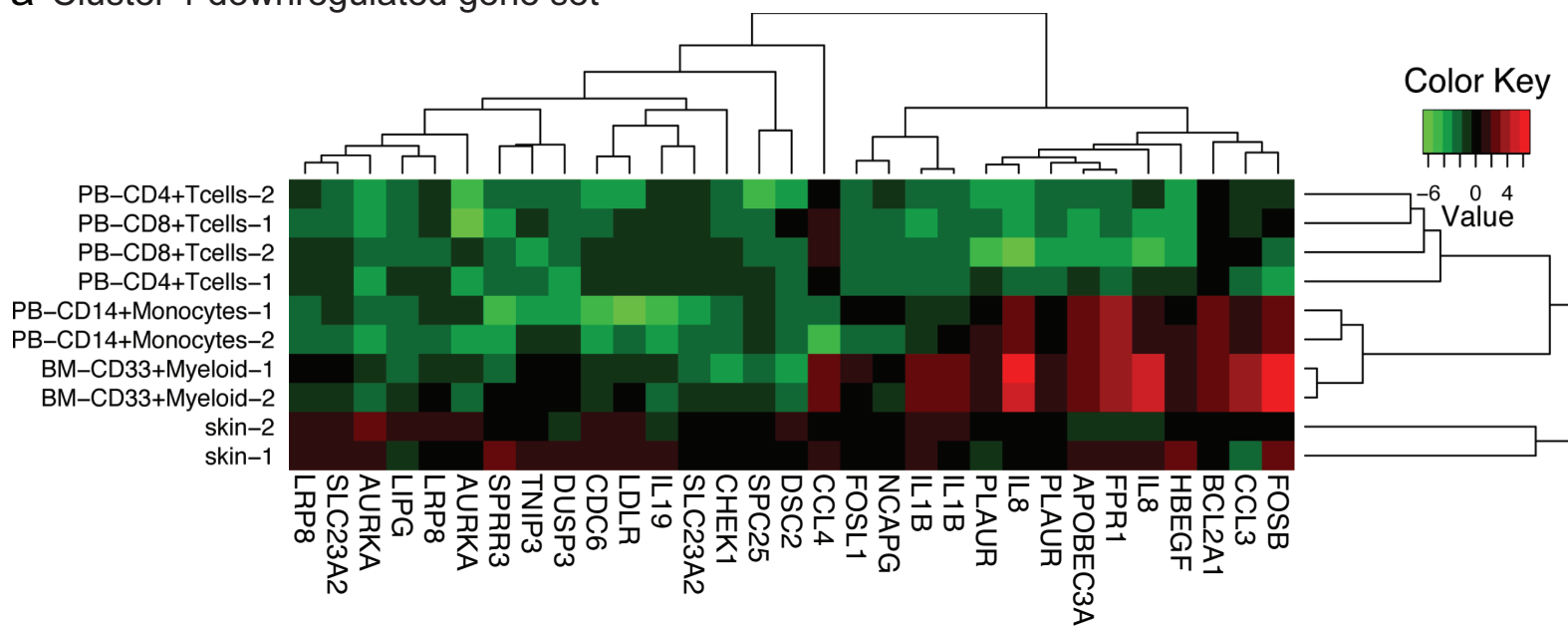


k=5

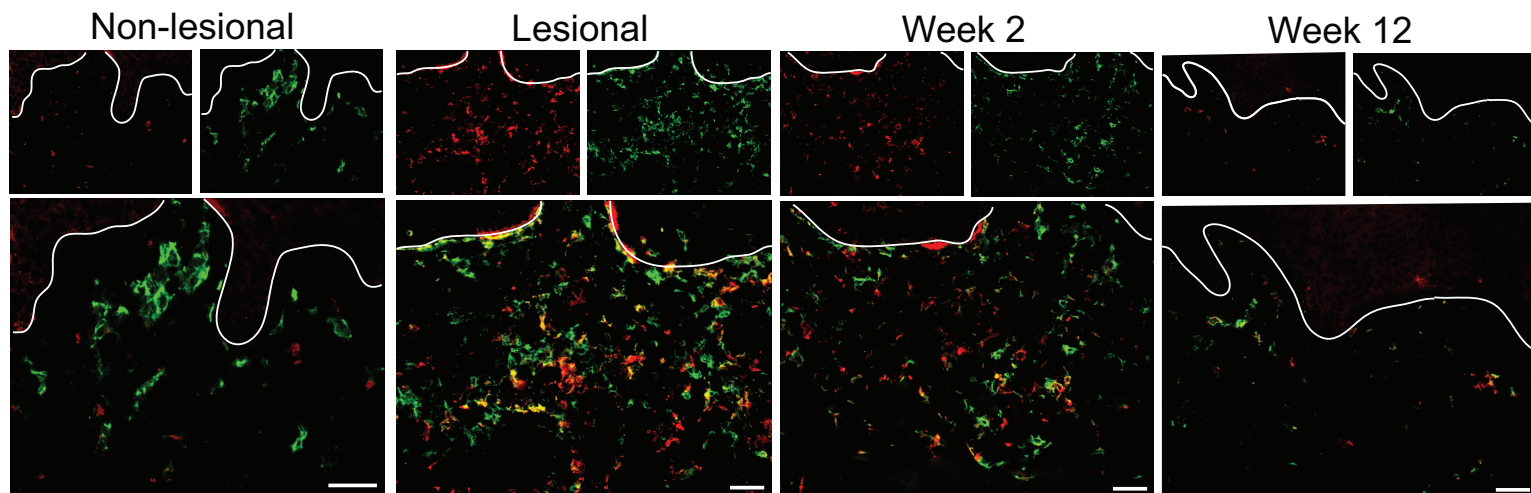


Online Repository Figure 3

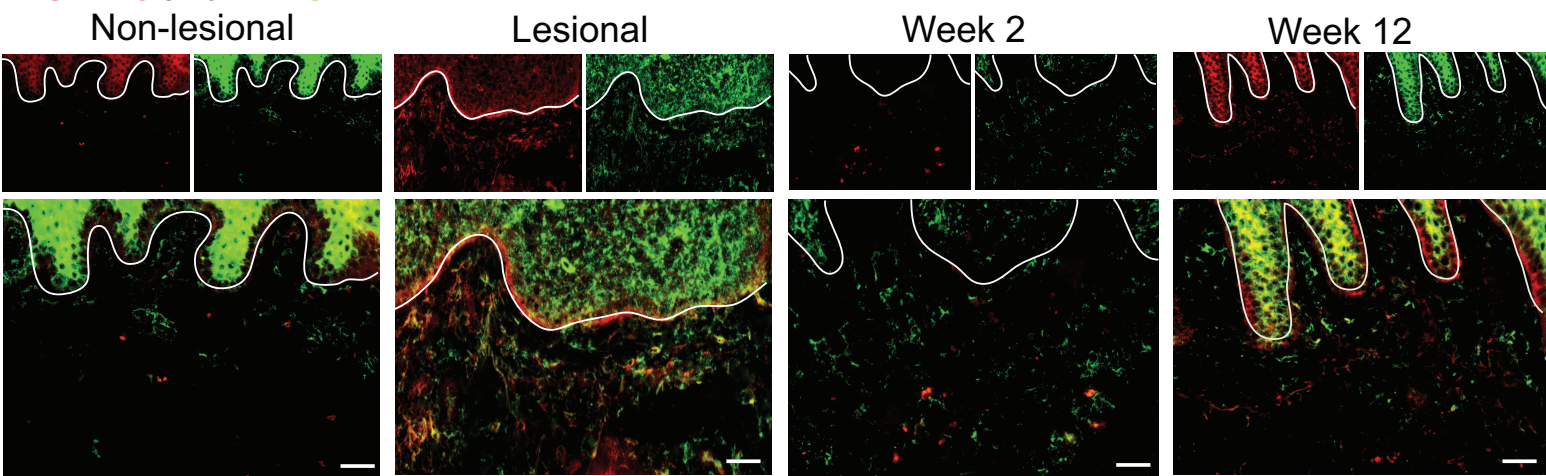
a Cluster 1 downregulated gene set

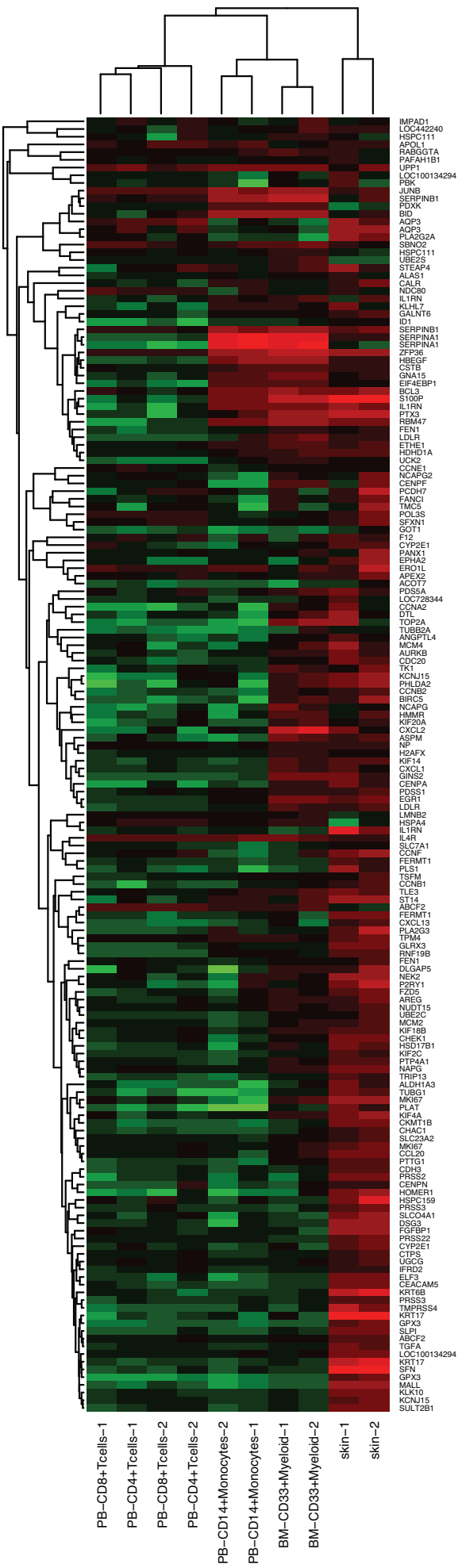


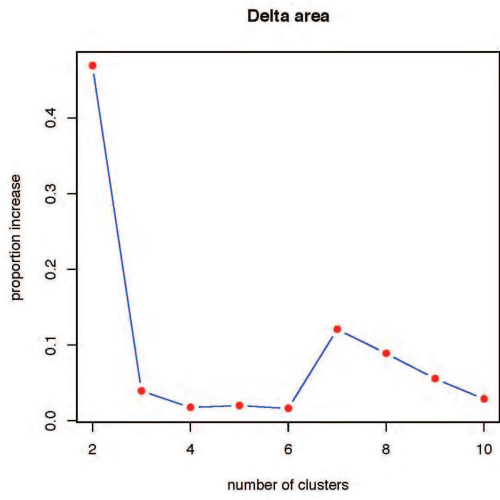
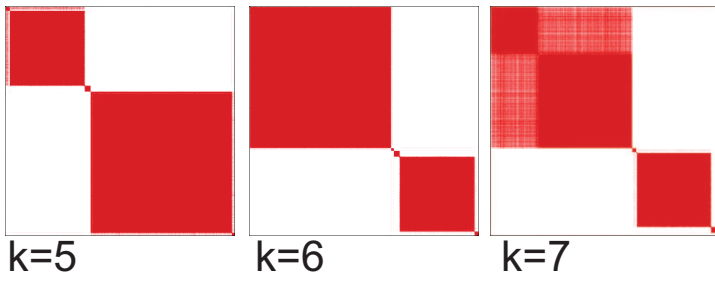
b **HBEGF** and **CD11c**



c **CD11c** and **PLAUR**

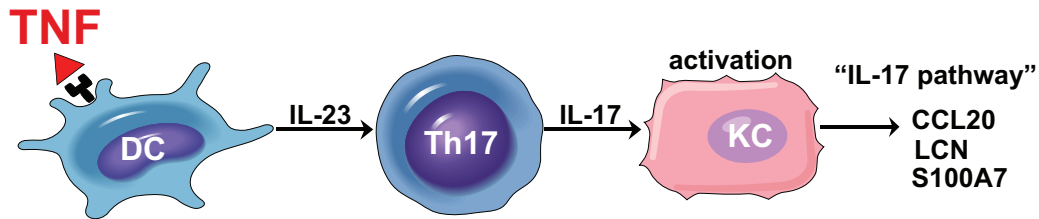






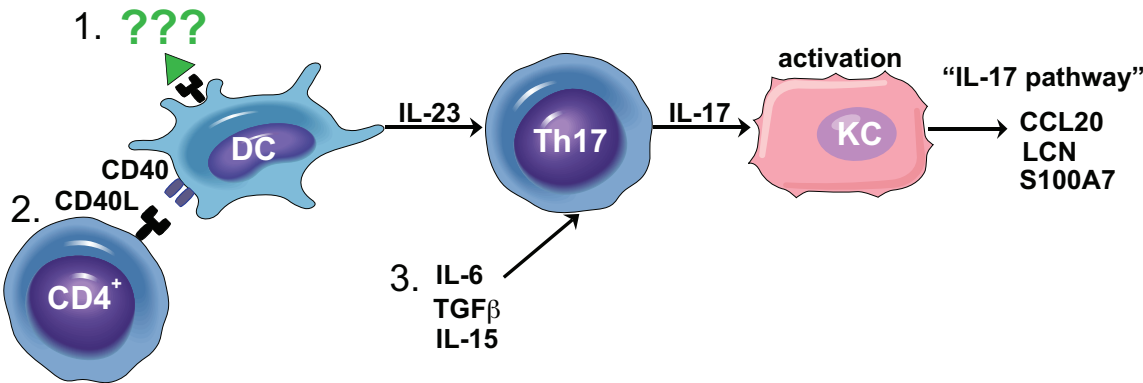
a. Responders

TNF-dependent DC activation

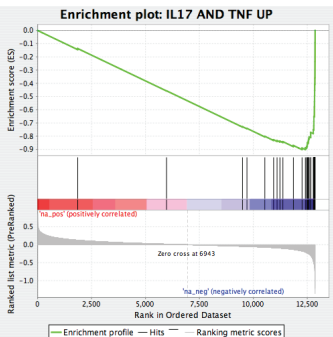


b. Non-responders

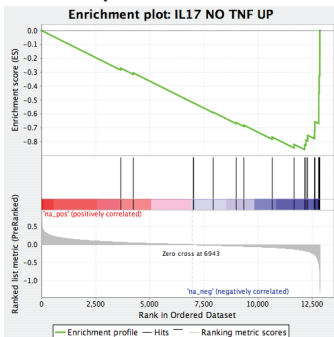
TNF-independent DC activation



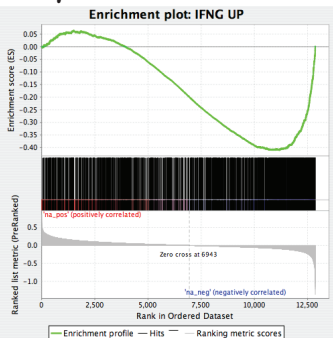
IL-17 and TNF



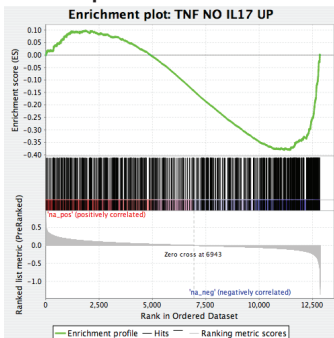
IL-17 specific



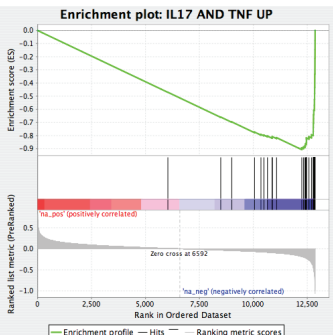
IFN γ



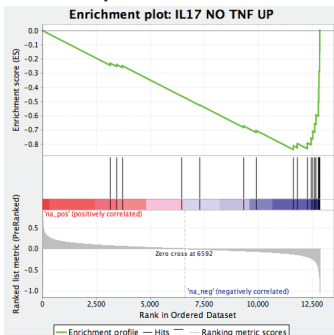
TNF specific



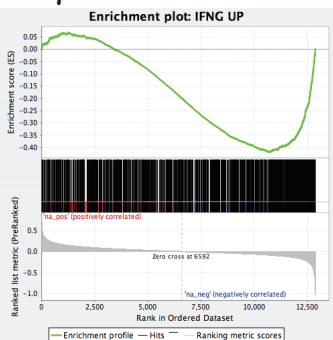
IL-17 and TNF



IL-17 specific



IFN γ



TNF specific

