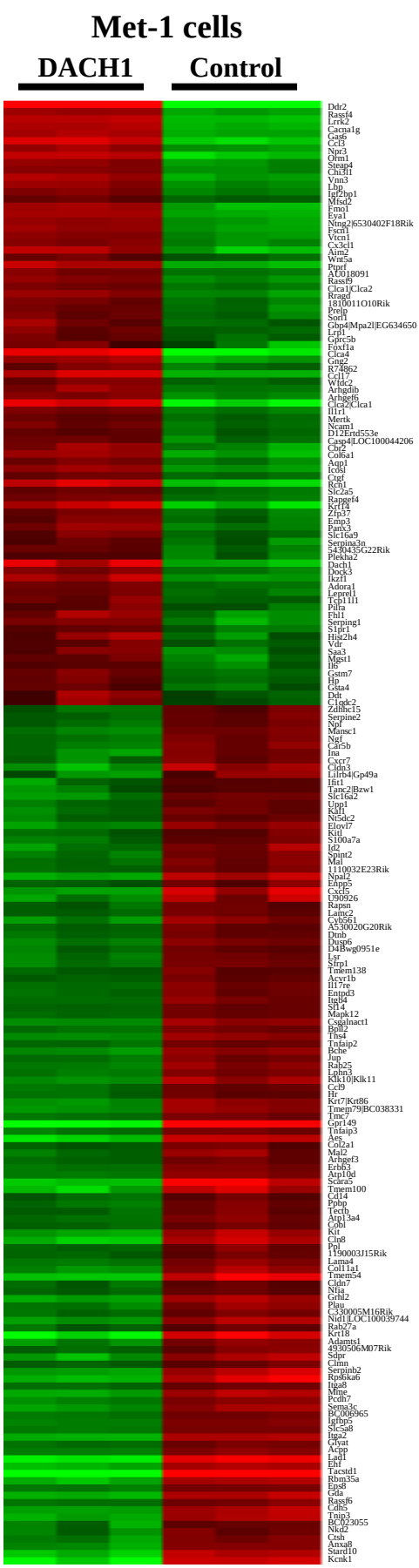
SUPPLEMENTAL DATA

Supplemental Figure. Treeview display of Met-1 cells in culture of microarray analysis. DACH1 stably cell lines (N=3) vs vector control (N=3). Green represents repression and red induction of gene expression.

Supplemental Table. Level of gene expression for each gene are shown in Table 1.

Supplementary Figure



Supplemental Table 1

Transcripts	genbank	genesymbol	genedescription	FCAbsolu	p-value	Aliases	UniProt_Function
6764010	X76505	Ddr2	discoidin domain receptor family, member 2	13.20273	6.91E-07	OTTHUMP00000038368 |NTRKR3 |OTTHUMP00000032332 |TYRO10 |MIG20a |TKT |EC 2.7.10.1	SwissProt: Q16832 # This tyrosine kinase receptor for fibrillar collagen mediates fibroblast migration and proliferation. Contributes to cutaneous wound healing (By similarity)
6910129	AY008277	Clca4	chloride channel calcium activated 4	7.867944	1.12E-05	hCLCA4 |OTTHUMP00000011915 |CaCC |MGC142247 |CaCC-2 |CaCC2 |MGC142249 |hCaCC-2	SwissProt: Q14CN2 # May be involved in mediating calcium-activated chloride conductance
6910126	AF047838	Clca2|Clca1	chloride channel calcium activated 2 | chloride channel calcium activated 1	6.500951	2.17E-05		
6790294	M23447	Ccl3	chemokine (C-C motif) ligand 3	5.489417	8.60E-06	G0S19-1 |SCYA3 |SIS-beta |MIP1A |MIP-1-alpha |LD78ALPHA	SwissProt: P10147 # Monokine with inflammatory and chemokinetic properties. Binds to CCR1, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-alpha induces a dose-dependent inhibition of different strains o
6889413	D13003	Rcn1	reticulocalbin 1	5.268672	2.02E-05	RCN |Rcal |FLJ37041 |PIG20 |RCAL	SwissProt: Q15293 # May regulate calcium-dependent activities in the endoplasmic reticulum lumen or post-ER compartment
6791408	BC011074	Krt14	keratin 14	4.878441	2.17E-04	K14 |Cytokeratin-14 |NFJ |CK-14 |CK14 |EBS3 |EBS4 |Keratin-14	
6914007	M27008	Orm1	orosomucoid 1	4.810838	1.64E-05	Orosomucoid-1 |OTTHUMP00000022741 |AGP1 |AGP-A |ORM	SwissProt: P02763 # Appears to function in modulating the activity of the immune system during the acute-phase reaction
6826883	AF129510	Dach1	dachshund 1 (Drosophila)	4.674828	2.40E-04	DACH |Dach1 |OTTHUMP00000018493 |OTTHUMP00000040839 |FLJ10138	SwissProt: Q9UI36 # Transcription factor that is involved in regulation of organogenesis. Seems to be a regulator of SIX1, SIX6 and probably SIX5. Corepression of precursor cell proliferation in myoblasts by SIX1 is switched to coactivation through recrui
6978336	AF125571	Ccl17	chemokine (C-C motif) ligand 17	4.546633	3.47E-05	OTTHUMP00000164673 |ABCD-2 |MGC138273 |SCYA17 |TARC |MGC138271 |A-152E5.3	SwissProt: Q92583 # Chemotactic factor for T-lymphocytes but not monocytes or granulocytes. May play a role in T-cell development in thymus and in trafficking and activation of mature T-cells. Binds to CCR4
6832713	AY792512	Lrrk2	leucine-rich repeat kinase 2	4.381855	2.95E-07	AURA17 |RIPK7 |ROCO2 |DARDARIN |FLJ45829 |PARK8 |DKFZp434H2111 |Dardarin |EC 2.7.11.1	SwissProt: Q5S007 # Probable protein kinase whose role is not yet known. May play a role in the phosphorylation of proteins central to Parkinson disease. May also have GTPase activity
6924882	AF300943	Ptprf	protein tyrosine phosphatase, receptor type, F	4.045665	1.86E-05	FLJ43335 |OTTHUMP00000008684 |FLJ45062 |LAR |LCA-homolog |FLJ45567 |EC 3.1.3.48	SwissProt: P10586 # The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one
6755282	BC009664	Aim2	absent in melanoma 2	3.998569	2.86E-04	PYHIN4 |OTTHUMP00000035296	SwissProt: O14862 # Tumor suppressor which may act by repressing NF-kappa-B transcriptional activity
6790947	BC057399	Cacna1g	calcium channel, voltage-dependent, T type, alpha 1G subunit	3.943078	8.81E-07	KIAA1123 |Cav3.1 |Cav3.1c |Ca(V)T.1 |NBR13 |MGC117234	SwissProt: O43497 # Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene
6763623	BC011229	Fmo1	flavin containing monooxygenase 1	3.708622	2.41E-05	OTTHUMP00000033536 |OTTHUMP00000033537 |EC 1.14.13.8	SwissProt: Q01740 # This protein is involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides. Form I catalyzes the N-oxygenation of secondary and tertiary amines
6757035	BC060260	Eya1	eyes absent 1 homolog (Drosophila)	3.652037	4.37E-07	MGC141875 |BOR |BOP |OTTHUMP00000195053 |EC 3.1.3.48	SwissProt: Q99502 # Thought to play a role in transcription regulation during organogenesis through its intrinsic protein phosphatase activity. Seems to coactivate SIX2, SIX4 and SIX5 (By similarity). May be required for normal development of branchial ar
6980568	BC005444	Gas6	growth arrest specific 6	3.640159	1.46E-06	FLJ34709 |AXLLG |GAS-6 |AXSF |DKFZp666G247 |OTTHUMP00000018777	SwissProt: Q14393 # Ligand for tyrosine-protein kinase receptors AXL, TYRO3 and MER whose signaling is implicated in cell growth and survival, cell adhesion and cell migration. Plays a role in thrombosis by amplifying platelet aggregation and secretion in
6823007	BC021599	Gnq2	guanine nucleotide binding protein (G protein), gamma 2	3.505411	6.84E-05		SwissProt: P59768 # Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and f
6766577	BC111521	Vnn3	vanin 3	3.480773	3.00E-05	PAGEL-alpha |PAGEL-eta |pantetheinase |MGC171203 |HSA238982 |PAGEL-zeta |PAGEL-delta |PAGEL-beta |Vanin-3 |PAGEL-gamma |PAGEL-epsilon	SwissProt: Q9NY84 # Probable hydrolase
6778784	AK220235	Ikzf1	IKAROS family zinc finger 1	3.449625	1.39E-04	Hs.54452 |PRO0758 |hIk-1 |IK1 |IKAROS |LYF1 |ZNFN1A1 |LyF-1	SwissProt: Q13422 # Binds and activates the enhancer (delta-A element) of the CD3-delta gene. Functions in the specification and the maturation of the T-lymphocyte. Also interacts with a critical control element in the TDT (terminal deoxynucleotidyltransf
6775185	X66405	Col6a1	collagen, type VI, alpha 1	3.449291	3.77E-05	OPLL	SwissProt: P12109 # Collagen VI acts as a cell-binding protein
6956765	BC060709	Rassf4	Ras association (RalGDS/AF-6) domain family member 4	3.28936	1.67E-06	OTTHUMP00000019493 |MGC44914 |AD037	SwissProt: Q9H2L5 # Potential tumor suppressor. May act as a KRAS effector protein. May promote apoptosis and cell cycle arrest
6935370	BC052408	Fscn1	fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	3.203644	1.05E-05	FAN1 |HSN |FLJ38511 |SNL |p55	SwissProt: Q16658 # Organizes filamentous actin into bundles with a minimum of 4.1:1 actin/fascin ratio. Probably involved in the assembly of actin filament bundles present in microspikes, membrane ruffles, and stress fibers
6834025	BC055897	Npr3	natriuretic peptide receptor 3	3.109566	1.91E-05	GUCY2B |NPRC |ANPRC |NPR-C |ANP-C	SwissProt: P17342 # Receptor for natriuretic peptide hormones. Has broad specificity and can bind several distinct natriuretic peptides, including atrial natriuretic peptide (NPPA) and brain natriuretic peptide (NPPB). Does not have guanylate cyclase acti
6769033	BC029227	Icosl	icos ligand	3.089205	9.36E-06	ICOSL |B7RP1 |B7RP-1 |LICOS |KIAA0653 |GL50 |OTTHUMP00000109524 |ICOS-L |CD275 |B7H2 |B7-H2	SwissProt: O75144 # Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells. Could play an important
6885671	AF475080	Ntng2|653040	netrin G2 | RIKEN cDNA 6530402F18 gene	3.078946	6.15E-06		
6912517	BC038137	Rragd	Ras-related GTP binding D	2.944259	6.04E-05	DKFZP761H171 |FLJ44176 |bA11D8.2.1 |RagD |OTTHUMP00000016853 |DKFZp761H171 |RAGD	SwissProt: Q9NQL2 # Has guanine nucleotide-binding activity but lacks intrinsic GTPase activity
6928716	BC006651	Steap4	STEAP family member 4	2.911707	3.90E-05	DKFZp666D049 |STAMP2 |TIARP |TNFAIP9 |FLJ23153 |EC 1.16.1.-	SwissProt: Q687X5 # Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor (By similarity)
6882730	BC004795	Lbp	lipopolysaccharide binding protein	2.898152	2.56E-05	OTTHUMP00000030965 |MGC22233	SwissProt: P18428 # Binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria. The LBP/LPS complex seems to interact with the CD14 receptor
6792814	BC010758	Cbr2	carbonyl reductase 2	2.881359	6.66E-04		
6899966	AY346099	Vtcn1	V-set domain containing T cell activation inhibitor 1	2.811154	1.83E-05	B7h.5 |FLJ22418 |B7-H4 |B7H4 |B7X |OTTHUMP00000013947 |PRO1291 |B7S1 |VCTN1 |RP11-229A19.4	SwissProt: Q7Z7D3 # Negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role,

6791072	BC051679	Igf2bp1	insulin-like growth factor 2 mRNA binding protein 1	2.510551	1.29E-05	CRD-BP |VICKZ1 |IMP-1 |CRDBP |IMP1 |ZBP1	SwissProt: Q9NZI8 # RNA-binding factor that affects mRNA nuclear export, localization, stability and translation. Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNA and regulates its subcellular localization and translation. Binds both to
6907255	BC057955	Hist2h4	histone cluster 2, H4	2.496719	0.006073	H4/J |H4FC |H4/O |H4FN |H4FI |H4/H |H4FA |H4FH |H4F2 |H4FM |H4/A |H4FK |H4FG |H4/G |H4FJ |HIST2H4 |H4FD |H4FB |H4/I |H4/K |H4FO |H4/B |H4/N |H4FE |H4/C |H4/D |H4/M |H4/a |H4/E	SwissProt: P62805 # Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DN
6998603	AY145302	Dock3	dedicator of cyto-kinesis 3	2.418528	8.91E-05	KIAA0299 |PBP |MOCA	SwissProt: Q8IZD9 # Potential guanine nucleotide exchange factor (GEF). GEF proteins activate some small GTPases by exchanging bound GDP for free GTP. Its interaction with presenilin proteins as well as its ability to stimulate Tau/MAPT phosphorylation su
6748884	M20658	Il1r1	interleukin 1 receptor, type I	2.386177	2.06E-05	IL-1R-1 |IL1R |P80 |OTTHUMP00000161344 |IL1RT1 |IL1RA |IL-1R-alpha |CD121A |IL-1RT1 |p80 |D2S1473	SwissProt: P14778 # Receptor for interleukin-1 alpha (IL-1A), beta (IL-1B), and interleukin-1 receptor antagonist protein (IL-1RA). Binding to the agonist leads to the activation of NF-kappa-B. Signaling involves formation of a ternary complex containing
6946406	L02914	Aqp1	aquaporin 1	2.373978	1.25E-04	Aquaporin-CHIP |MGC26324 |AQP-CHIP |CO |CHIP28 |AQP-1	SwissProt: P29972 # Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient
6967059	BC055885	Saa3	serum amyloid A 3	2.349319	0.002177	SAA3	
6878038	AK220281	Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4	2.332753	1.69E-05	OTTHUMP00000165045 |CAMP-GEFII |cAMP-GEFII |Nbla00496 |EPAC2 |CGEF2 |OTTHUMP00000165043	SwissProt: Q8WZA2 # Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2 (By
7003143	BC080735	AU018091		2.329828	2.05E-05		
6950582	BC009155	Mgst1	microsomal glutathione S-transferase 1	2.320335	0.001351	GST12 |MGC14525 |MGST |MGST-I |EC 2.5.1.18	SwissProt: P10620 # Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Has a wide substrate specificity
6979570		Foxf1a	forkhead box F1a	2.308121	0.012143		
6972339	BC005669	R74862		2.269749	5.10E-04		
6922202	BC063757	Zfp37	zinc finger protein 37	2.267329	2.59E-04	OTTHUMP00000022750 |FLJ38524 |Zfp-37	SwissProt: Q9Y6Q3 # May be involved in transcriptional regulation
6910123	AF047838	Clca1|Clca2	chloride channel calcium activated 1 | chloride channel calcium activated 2	2.255458	1.81E-05		
6981091	BC016562	1810011O10R	RIKEN cDNA 1810011O10 gene	2.253686	1.40E-04		
6762328	BC019775	Prelp	proline arginine-rich end leucine-rich repeat	2.243225	3.71E-04	MSTP161 |prolargin |OTTHUMP00000034099 |SLRR2A |MST161 |MGC45323	SwissProt: P51888 # May anchor basement membranes to the underlying connective tissue (By similarity)
6967017	BC001999	Emp3	epithelial membrane protein 3	2.241378	0.001026	HNMP-1 |YMP |EMP-3	SwissProt: P54852 # Probably involved in cell proliferation and cell-cell interactions
6940648	EF494423	Gbp4|Mpa2l|E	guanylate nucleotide binding protein 4 | macrophage activation 2 like | predicti	2.207654	0.00221		
6762353	BC079624	Adora1	adenosine A1 receptor	2.204086	1.67E-05	OTTHUMP00000039090 |RDC7 |OTTHUMP00000039091	SwissProt: P30542 # Receptor for adenosine. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase
6844806	AJ430350	Leprel1	leprecan-like 1	2.203971	1.17E-04	FLJ10718 |P3H2 |MLAT4 |EC 1.14.11.7	SwissProt: Q8IVL5 # Has prolyl 3-hydroxylase activity catalyzing the post-translational formation of 3-hydroxyproline in -Xaa-Pro-Gly-sequences in collagens, especially types IV and V (By similarity)
6986649	BC061255	Casp4|LOC10	caspase 4, apoptosis-related cysteine peptidase | hypothetical protein LOC10	2.197047	4.71E-04		
6995454	BC011310	Ncam1	neural cell adhesion molecule 1	2.191002	1.33E-04	MSK39 |N-CAM-1 |CD56 |NCAM-1 |NCAM	SwissProt: P13591 # This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc
6908073	BC051924	Gstm7	glutathione S-transferase, mu 7	2.18504	1.57E-04		
6994927	AB015790	Sorl1	sortilin-related receptor, LDLR class A repeats-containing	2.18045	5.51E-04	LR11 |SorLA-1 |gp250 |FLJ21930 |LRP9 |SorLA |SORLA |FLJ39258 |C11orf32	SwissProt: Q92673 # Likely to be a multifunctional endocytic receptor, that may be implicated in the uptake of lipoproteins and of proteases. Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and transports it into cells by endocytosis. Bin
6883105	BC099427	Wfdc2	WAP four-disulfide core domain 2	2.155865	1.74E-04	MGC57529 |HE4 |OTTHUMP00000031141 |dJ461P17.6 |WAP5	
6753068	AB232641	5430435G22R	RIKEN cDNA 5430435G22 gene	2.140186	2.75E-04		
6889350	BC116926	Tcp11l1	t-complex 11 like 1	2.11933	5.91E-04	FLJ11336 |dJ85M6.3 |FLJ11386	
6766623	BC006783	Ctgf	connective tissue growth factor	2.102829	2.45E-05	IGFBP8 |OTTHUMP00000017213 |CCN2 |MGC102839 |NOV2 |HCS24	SwissProt: P29279 # Major connective tissue mitoattractant secreted by vascular endothelial cells. Promotes proliferation and differentiation of chondrocytes. Mediates heparin- and divalent cation-dependent cell adhesion in many cell types including fibro
6918858	BC023500	Slc2a5	solute carrier family 2 (facilitated glucose transporter), member 5	2.094611	4.48E-05	GLUT-5 |GLUT5 |OTTHUMP00000001704	SwissProt: P22732 # Cytochalasin B-sensitive carrier. Seems to function primarily as a fructose transporter
6775148	BC010753	Ddt	D-dopachrome tautomerase	2.091087	0.008187	DDCT |EC 4.1.1.84	SwissProt: P30046 # Tautomerization of D-dopachrome with decarboxylation to give 5,6-dihydroxyindole (DHI)
6768618	BC034205	Slc16a9	solute carrier family 16 (monocarboxylic acid transporters), member 9	2.090044	6.94E-04	FLJ43803 |OTTHUMP00000178989 |MCT9 |C10orf36 |OTTHUMP00000178988	SwissProt: Q7RTY1 # Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates (By similarity)
6777957	AF367720	Lrp1	low density lipoprotein receptor-related protein 1	2.089781	4.34E-04	TGFBR5 |IGFBP3R |A2MR |FLJ16451 |CD91 |LRP |APOER |APR |MGC88725	SwissProt: Q07954 # Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells. Required for early embryonic development. Involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated
6797579	BC013651	Serpina3n	serine (or cysteine) peptidase inhibitor, clade A, member 3N	2.080387	0.00222		
6908461	BC051023	S1pr1	sphingosine-1-phosphate receptor 1	2.059599	3.43E-04	CHEDG1 |edg-1 |OTTHUMP00000012525 |D1S3362 |ECGF1 |EDG1 |S1P1 |FLJ58121 |EDG-1	SwissProt: P21453 # Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. This inducible epithelial cell G-protein-coupled recepto
6985252	M96827	Hp	haptoglobin	2.031722	2.50E-04	HP2-ALPHA-2 |BP |HPA1S |MGC111141	SwissProt: P00738 # Haptoglobin combines with free plasma hemoglobin, preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin, while making the hemoglobin accessible to degradative enzymes
6929591	J03783	Il6	interleukin 6	2.014849	9.06E-04	HSF |BSF-2 |BSF2 |HGF |IL-6 |CDF |IFNB2	SwissProt: P05231 # IL-6 is a cytokine with a wide variety of biological functions: it plays an essential role in the final differentiation of B-cells into Ig-secreting cells, it induces myeloma and plasmacytoma growth, it induces nerve cells differentiat
6990685	BC012639	Gsta4	glutathione S-transferase, alpha 4	2.006552	9.37E-04	OTTHUMP00000016624 |GTA4 |OTTHUMP00000016625 |GSTA4-4 |DKFZp686D21185 |EC 2.5.1.18	SwissProt: O15217 # Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. This isozyme has a high catalytic efficiency with 4-hydroxyalkenals such as 4-hydroxynonenal (4-HNE)
6970857	AF378831	Gprc5b	G protein-coupled receptor, family C, group 5, member B	2.003906	2.93E-04	RAIG2 |RAIG-2 |A-69G12.1	SwissProt: Q9NZH0 # Unknown. This retinoic acid-inducible G-protein coupled receptor provide evidence for a possible interaction between retinoid and G-protein signaling pathways
						MGC133249 |c-mer |RP38 |mer |MER	SwissProt: Q12866 # In case of filovirus infection, seems to function as a cell

6864700	BC057889	Cd14	CD14 antigen	-1.95988	3.48E-04	0	SwissProt: P08571 # Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulate
6871496	BC058237	Tmem138	transmembrane protein 138	-1.96322	7.31E-04	HSPC196	
6990435	BC008173	Rab27a	RAB27A, member RAS oncogene family	-1.96843	2.75E-04	Rab-27 |GS2 |RAB27 |HsT18676 |MGC117246 |RAM	
6833306	BC059832	Acvr1b	activin A receptor, type 1B	-1.96942	7.63E-05	ALK-4 |SKR2 |ActRIB |ACTR-IB |ACVRLK4 |ALK4 |ACTRIB |EC 2.7.11.30	SwissProt: P36896 # On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate
6803319	AB059648	Clmn	calmin	-1.97411	1.61E-04	KIAA0500 |KIAA1188 |FLJ43048 |calmin |FLJ12383	
6770201	U44725	Kitl	kit ligand	-1.98173	8.61E-04	Kitl |SF |SCF |MGF |SHEP7 |DKFZp686F2250 |KL-1	SwissProt: P21583 # Stimulates the proliferation of mast cells. Able to augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. Mediates also cell-cell adhesion. Acts synergistically with other cytokines, p
6782087	BC050007	Cldn7	claudin 7	-1.98629	2.26E-04	claudin-1 |CPETRL2 |CLDN-7 |Hs.84359 |CEPTRL2	SwissProt: O95471 # Plays a major role in tight junction-specific obliteration of the intercellular space (By similarity)
6965123	BC051545	1190003J15Rik	RIKEN cDNA 1190003J15 gene	-1.9935	1.29E-04		
6900952	AK040725	LA530020G20R	RIKEN cDNA A530020G20 gene	-1.9946	1.60E-04		
6838346	BC082331	Col2a1	collagen, type II, alpha 1	-1.99784	4.24E-04	COL11A3 |ANFH |MGC131516 |chondrocalcin |OTTHUMP00000195063 |SEDC |AOM	SwissProt: P02458 # Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces
6850552	AF233377	Enpp5	ectonucleotide pyrophosphatase/phosphodiesterase 5	-2.00318	9.11E-04	OTTHUMP00000016543 |KIAA0879 |E-NPP5 |OTTHUMP00000016542 |NPP-5 |EC 3.1.-.-	SwissProt: Q9UJA9 # May play a role in neuronal cell communication. Lacks nucleotide pyrophosphatase and lysopholipase D activity (By similarity)
6879015	J03962	Rapsn	receptor-associated protein of the synapse	-2.01249	4.17E-04	CMS1E |rapsyn |MGC3597 |RNF205 |RAPsyn |CMS1D	SwissProt: Q13702 # Thought to play some role in anchoring or stabilizing the nicotinic acetylcholine receptor at synaptic sites. It may link the receptor to the underlying postsynaptic cytoskeleton, possibly by direct association with actin or spectrin
6784578	BC028865	Tanc2|Bzw1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2 | basic leu	-2.01359	0.001881		
7018687		Zdhhc15	zinc finger, DHHC domain containing 15	-2.01663	7.61E-04	OTTHUMP00000023583 |DHHC-15 |MGC119974 |FLJ31812 |MGC119975 |MGC119976 |MRX91 |EC 2.3.1.-	SwissProt: Q96MV8 # Palmitoyltransferase specific for GAP43 and DLG4/PSD95 (By similarity)
6763129	U43327	Lamc2	laminin, gamma 2	-2.01903	9.55E-05	MGC141938 |BM600-100kDa |kalinin-105kDa |nicein-100kDa |EBR2A |CSF |OTTHUMP00000033550 |EBR2 |LAMB2T |MGC138491 |LAMNB2 |epiligrin |BM600 |B2T	SwissProt: Q13753 # Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. Ladsi
6994353	BC005496	St14	suppression of tumorigenicity 14 (colon carcinoma)	-2.02017	5.48E-06	MTSP1 |Prostamin |PRSS14 |Matriptase |MTSP-1 |SNC19 |HAI |TADG15 |TADG-15 |MT-SP1 |matriptase |epithin |EC 3.4.21.109	SwissProt: Q9Y5Y6 # Degrades extracellular matrix. Proposed to play a role in breast cancer invasion and metastasis. Exhibits trypsin-like activity as defined by cleavage of synthetic substrates with Arg or Lys as the P1 site
6760009	BC010675	Serpine2	serine (or cysteine) peptidase inhibitor, clade E, member 2	-2.02185	3.22E-04	nexin |PI7 |GDN |PN-1 |PNI |PN1	SwissProt: P07093 # Serine protease inhibitor with activity toward thrombin, trypsin, and urokinase. Promotes neurite extension by inhibiting thrombin. Binds heparin
6778719	D44464	Upp1	uridine phosphorylase 1	-2.02765	2.00E-04	UDRPASE |UPP |OTTHUMP00000159566 |UP |UPASE |EC 2.4.2.3	SwissProt: Q16831 # Catalyzes the reversible phosphorylytic cleavage of uridine and deoxyuridine to uracil and ribose- or deoxyribose-1-phosphate. The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases f
6786049	AY308745	Cobl	cordon-bleu	-2.02988	7.22E-05	DKFZp686G13227 |MGC131893 |KIAA0633	
6820085	BC049182	Hr	hairless	-2.03376	9.68E-05	AU |HSA277165 |OTTHUMP00000122609 |OTTHUMP00000159164 |ALUNC	SwissProt: O43593 # May act as a transcription factor that could act on to regulate one of the phases of hair growth
6869334	BC003768	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	-2.04168	0.003736	IFI-56 |IFI56 |GARG-16 |IFNAI1 |ISG56 |RNM561 |IFIT-1 |IFI-56K |OTTHUMP00000020062 |G10P1	
6817970	BC011230	Nl5dc2	5'-nucleotidase domain containing 2	-2.05373	3.89E-04	FLJ12442	
6870562	X99806	Tectb	tectorin beta	-2.05531	4.37E-04	OTTHUMP00000020488 |MGC142057 |MGC142059 |KIAA1560	SwissProt: Q96PL2 # One of the major non-collagenous components of the tectorial membrane (By similarity). The tectorial membrane is an extracellular matrix of the inner ear that covers the neuroepithelium of the cochlea and contacts the stereocilia bundl
6792942	BC030924	Dtnb	dystrobrevin, beta	-2.05699	7.23E-05	MGC17163 |MGC57126 |Beta-dystrobrevin |DTN-B	
6914765	BC021501	D4Bwg0951e	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	-2.05746	3.52E-04		
6817700	BC005517	Arhgef3	Rho guanine nucleotide exchange factor (GEF) 3	-2.06159	5.55E-05	DKFZP434F2429 |MGC118905 |STA3 |FLJ98126 |XPLN |GEF3 |DKFZp434F2429	SwissProt: Q9NR81 # Acts as guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases
6763146	BC022734	Npl	N-acetylneuraminate pyruvate lyase	-2.07266	2.50E-04	C112 |C1orf13 |NALase |MGC61869 |NPL1 |OTTHUMP00000033259 |MGC149582 |c112 |EC 4.1.3.3	SwissProt: Q9BXD5 # Catalyzes the cleavage of N-acetylneuraminic acid (sialic acid) to form pyruvate and N-acetylmannosamine via a Schiff base intermediate. It prevents sialic acids from being recycled and returning to the cell surface (By similarity)
6837784	BC021640	Mapk12	mitogen-activated protein kinase 12	-2.07961	4.41E-06	ERK5 |P38GAMMA |p38gamma |ERK3 |ERK6 |ERK-6 |PRKM12 |SAPK3 |SAPK-3 |EC 2.7.11.24	SwissProt: P53778 # Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating downstream targets. Plays a role in myoblast differentiation and also in the down-regulation of cyclin D1 in response to hypoxia in adrena
6843685	AF126834	Ppl	periplakin	-2.09348	4.96E-04	MGC134872 |KIAA0568 |OTTHUMP00000159922	SwissProt: O60437 # Component of the cornified envelope of keratinocytes. May link the cornified envelope to desmosomes and intermediate filaments. May act as a localization signal in PKB/AKT-mediated signaling
6798213		Tnfaip2	tumor necrosis factor, alpha-induced protein 2	-2.10454	1.15E-05	B94	SwissProt: Q03169 # May play a role as a mediator of inflammation and angiogenesis
6884750		Itga8	integrin alpha 8	-2.11445	7.04E-06	OTTHUMP00000019207	SwissProt: P53708 # Integrin alpha-8/beta-1 functions in the genesis of kidney and probably of other organs by regulating the recruitment of mesenchymal cells into epithelial structures. It recognizes the sequence R-G-D in a wide array of ligands includin
6790291	U15209	Ccl9	chemokine (C-C motif) ligand 9	-2.11719	4.19E-05		
6898630	BC056975	1110032E23Rik	RIKEN cDNA 1110032E23 gene	-2.13394	7.79E-05		
6899375	AY465109	S100a7a	S100 calcium binding protein A7A	-2.13466	4.36E-04	S100A15 |OTTHUMP00000015324 |S100A7f |OTTHUMP00000015326 |OTTHUMP00000015325 |NICE-2 |S100A7L1	SwissProt: Q86SG5 # May be involved in epidermal differentiation and inflammation and might therefore be important for the pathogenesis of psoriasis and other diseases
						CD39L3 |Ecto-apyrase |NTPDase-3	SwissProt: Q75355 # Has a threefold preference for the hydrolysis of ATP over

6890710	BC006826	Mal	myelin and lymphocyte protein, T-cell differentiation protein	-2.26183	1.68E-04	0	SwissProt: P21145 # Could be an important component in vesicular trafficking cycling between the Golgi complex and the apical plasma membrane. Could be involved in myelin biogenesis and/or myelin function
6900071	M35075	Ngf	nerve growth factor	-2.26688	5.96E-05	NID67 |OTTHUMP00000013653 |MGC161428 |HSAN5 |Beta-NGF |MGC161426 |NGFB	SwissProt: P01138 # Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. It stimulates division and differentiation of sympathetic and embryonic sensory neurons
6791422	BC040757	Jup	junction plakoglobin	-2.27105	1.02E-04	PKGB |PDGB |CTNNG |ARVD12 |gamma-catenin |OTTHUMP00000164735 |DP3 |DPIII |Desmoplakin-3	SwissProt: P14923 # Common junctional plaque protein. The membrane-associated plaques are architectural elements in an important strategic position to influence the arrangement and function of both the cytoskeleton and the cells within the tissue. The pre
6785183	BC080751	Itgb4	integrin beta 4	-2.27417	1.34E-04	CD104 |GP150	SwissProt: P16144 # Integrin alpha-6/beta-4 is a receptor for laminin. It plays a critical structural role in the hemidesmosome of epithelial cells
6792260	BC006965	BC006965		-2.27459	3.76E-06		
6939888	BC039934	Rassf6	Ras association (RalGDS/AF-6) domain family member 6	-2.2804	3.24E-05	DKFZp686K23225	SwissProt: Q6ZTQ3 # May act as a Ras effector protein
6844955	BC048410	Atp13a4	ATPase type 13A4	-2.2842	1.14E-04	DKFZp761I1011 |MGC126545 |EC 3.6.3.-	
6966329	BC004672	Lsr	lipolysis stimulated lipoprotein receptor	-2.28749	1.28E-04	MGC48312 |LISCH7 |LDR3 |LISCH |MGC48503 |MGC10659	SwissProt: Q86X29 # Probable role in the clearance of triglyceride-rich lipoprotein from blood. Binds chylomicrons, LDL and VLDL in presence of free fatty acids and allows their subsequent uptake in the cells (By similarity)
6772417	BC050259	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	-2.28785	3.58E-05	OTUD7C |OTTHUMP00000017289 |MGC138688 |A20 |MGC138687 |TNFA1P2 |MGC104522 |EC 3.-.-.-	SwissProt: P21580 # Interacts with NAF1 and inhibits TNF-induced NF-kappa-B-dependent gene expression by interfering with an RIP- or TRAF2-mediated transactivation signal. Inhibitor of programmed cell death. Has a role in the function of the lymphoid syst
6814355	BC019952	Nkd2	naked cuticle 2 homolog (Drosophila)	-2.30698	7.76E-04	hNkd2 |Naked2 |Naked-2	SwissProt: Q969F2 # Cell autonomous antagonist of the canonical Wnt signaling pathway. May activate a second Wnt signaling pathway that controls planar cell polarity (By similarity). Required for processing of TGFA and for targeting of TGFA to the basolat
6873167	BC057060	BC023055		-2.31417	0.001862		
6974663	BC094662	Sfrp1	secreted frizzled-related protein 1	-2.32355	6.44E-05	FrzA |SARP2 |FRP1 |FRP-1 |SARP-2 |FRP |sFRP-1	SwissProt: Q8N474 # Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP1 decreases intracellula
6957789	BC016890	Eps8	epidermal growth factor receptor pathway substrate 8	-2.3319	2.30E-06	0	SwissProt: Q12929 # Upon binding to EGF receptor enhances EGF-dependent mitogenic signals. Can bind multiple cellular targets
6966198	BC026419	Spint2	serine protease inhibitor, Kunitz type 2	-2.33198	1.61E-04	FLJ45571 |HAI-2 |Kop |PB |HAI2 |KOP	SwissProt: O43291 # Inhibitor of HGF activator. Also inhibits plasmin, plasma and tissue kallikrein, and factor XIa
6769662	AY484428	Slc5a8	solute carrier family 5 (iodide transporter), member 8	-2.3512	7.29E-08	AIT |SMCT |MGC125354 |SMCT1	SwissProt: Q8N695 # Acts as an electrogenic sodium (Na(+)) and chloride (Cl-)-dependent sodium-coupled solute transporter, including transport of monocarboxylates (short-chain fatty acids including L-lactate, D-lactate, pyruvate, acetate, propionate, vale
6778044	BC106091	Erbb3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	-2.35403	2.14E-05	c-erbB-3 |LCCS2 |c-erbB3 |erbB-3 |p180-ErbB3 |p85-sErbB3 |p45-sErbB3 |ErbB-3 |erbB3-S |MGC88033 |HER3 |MDA-BF-1 |EC 2.7.10.1	SwissProt: P21860 # Binds and is activated by neuregulins and NTAK
6931961	BC088989	Lphn3	latrophilin 3	-2.39223	1.06E-05	KIAA0768 |LEC3 |Lectomedin-3 |CIRL3	
6957632	BC039930	Mansc1	MANSC domain containing 1	-2.41353	8.06E-05	9130403P13Rik |FLJ10298 |LOH12CR3	
7020676	AF192978	Car5b	carbonic anhydrase 5b, mitochondrial	-2.43673	2.56E-04		
6830480	BC113154	Mal2	mal, T-cell differentiation protein 2	-2.4467	0.001248	0	SwissProt: Q969L2 # Member of the machinery of polarized transport. Required for the indirect transcytotic route at the step of the egress of the transcytosing cargo from perinuclear endosomes in order for it to travel to the apical surface via a raft-dep
6767231	U59865	Lama4	laminin, alpha 4	-2.45631	7.12E-05	LAMA3 |LAMA4*-1 |DKFZp686D23145 |OTTHUMP00000017039 |OTTHUMP00000017043	SwissProt: Q16363 # Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components
6770160	BC003869	Dusp6	dual specificity phosphatase 6	-2.47016	8.75E-05	PYST1 |MKP3 |MKP-3 |EC 3.1.3.48,EC 3.1.3.16	SwissProt: Q16828 # Inactivates MAP kinases. Has a specificity for the ERK family
7018664	BC096587	Slc16a2	solute carrier family 16 (monocarboxylic acid transporters), member 2	-2.48411	2.29E-04	AHDS |XPCT |DXS128E |DXS128 |MRX22 |MCT8 |MCT7	SwissProt: P36021 # Very active and specific thyroid hormone transporter. Stimulates cellular uptake of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diiodothyronine. Does not transport Leu, Phe, Trp or Tyr (By similarity)
6870125	BC018383	Ina	internexin neuronal intermediate filament protein, alpha	-2.51443	6.24E-04	FLJ57501 |MGC12702 |Alpha-Inx |OTTHUMP00000020403 |FLJ18662 |NF-66 |NEF5 |TXBP-1 |Neurofilament-66	SwissProt: Q16352 # Class-IV neuronal intermediate filament that is able to self-assemble. It is involved in the morphogenesis of neurons. It may form an independent structural network without the involvement of other neurofilaments or it may cooperate wi
6759664	L12447	Igfbp5	insulin-like growth factor binding protein 5	-2.51758	3.76E-07	IGFBP-5 |IBP5 |IBP-5	SwissProt: P24593 # IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors
6767782	BC006591	Lilrb4|Gp49a	leukocyte immunoglobulin-like receptor, subfamily B, member 4 | glycoprotein	-2.53264	0.005183		
6931529	BC029551	Atp10d	ATPase, class V, type 10D	-2.54665	1.56E-05	KIAA1487 |ATPVD |EC 3.6.3.1	
6991264	U06119	Ctsh	cathepsin H	-2.55095	3.47E-04	MGC1519 |ACC-5 |DKFZp686B24257 |aleurain |CPSB |ACC-4 |minichain |EC 3.4.22.16	SwissProt: P09668 # Important for the overall degradation of proteins in lysosomes
6998434	BC139826	Acpp	acid phosphatase, prostate	-2.55958	3.21E-06	ACP-3 |PAP |ACP3 |EC 3.1.3.2	
6817381	BC120709	Plau	plasminogen activator, urokinase	-2.59843	2.18E-04	uPA |UROKINASE |u-PA |ATF |UPA |OTTHUMP00000019849 |URK |EC 3.4.21.73	SwissProt: P00749 # Specifically cleave the zymogen plasminogen to form the active enzyme plasmin
6799462	BC006921	Id2	inhibitor of DNA binding 2	-2.61161	0.002206	MGC26389 |ID2A |ID2H |GIG8 |OTTHUMP00000140258 |bHLHb26	SwissProt: Q02363 # ID (inhibitor of DNA binding) HLH proteins lack a basic DNA-binding domain but are able to form heterodimers with other HLH proteins, thereby inhibiting DNA binding. ID-2 may be an inhibitor of tissue-specific gene expression
6931001	AB006758	Pcdh7	protocadherin 7	-2.61356	2.71E-05	BHPCDH |BH-Pcdh	
6906762	BC006624	Rab25	RAB25, member RAS oncogene family	-2.63865	7.96E-05	CATX-8 |CATX8 |OTTHUMP00000018847	SwissProt: P57735 # May selectively regulate the apical recycling and/or transcytotic pathways (By similarity)
6847556	BC050834	Adamts1	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin	-2.7387	1.59E-04	METH-1 |KIAA1346 |C3-C5 |ADAMTS-1 |ADAM-TS1 |METH1 |EC 3.4.24.-	SwissProt: Q9UHI8 # Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover (By similarity). Has angiogenic inhibitor activity. Active metalloprotease, which may be associated with various inflammatory processes as well as developm
6818186	BC030407	Anxa8	annexin A8	-2.80774	9.46E-05	VAC-beta |ANX8 |Annexin-8 |FLJ53095	SwissProt: P13928 # This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade
6791856	BC006732	Cyb561	cytochrome b-561	-2.83426	3.94E-04	ERPS2	SwissProt: P49447 # Secretory vesicle-specific electron transport protein

6931759	BC052457	Kit	kit oncogene	-3.50492	1.21E-04	SCFR |PBT |c-kit |CD117 |C-Kit |EC 2.7.10.1	SwissProt: P10721 # This is the receptor for stem cell factor (mast cell growth factor). It has a tyrosine-protein kinase activity. Binding of the ligands leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinos
6749352	BC027005	Sdpr	serum deprivation response	-3.52034	3.33E-04	PS-p68 |SDR	SwissProt: O95810 # May play a role in targeting PRKCA to caveolae (By similarity)
6829871	BC055035	Grhl2	grainyhead-like 2 (Drosophila)	-3.52892	1.73E-05	DFNA28 |BOM |MGC149295 |MGC149294 |FLJ13782 |FLJ11172 |TFCP2L3	SwissProt: Q6ISB3 # May function as a transcription factor
6978695	BC054790	Cdh5	cadherin 5	-3.58815	1.91E-05	CD144 |7B4 |FLJ17376 |VE-cadherin	SwissProt: P33151 # Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. This cadherin ma
6946749	EF585494	Tnip3	TNFAIP3 interacting protein 3	-3.71902	2.48E-05	FLJ21162 |ABIN-3 |ABIN3 |LIND	
6898010	BC034092	Mme	membrane metallo endopeptidase	-3.72295	2.42E-05	NEP |Enkephalinase |DKFZp686O16152 |EPN |neprilysin |enkephalinase |atriopeptidase |MGC126681 |Atriopeptidase |CD10 |MGC126707 |CALLA |EC 3.4.24.11	SwissProt: P08473 # Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Involv
6752156	X16490	Serpinb2	serine (or cysteine) peptidase inhibitor, clade B, member 2	-3.7488	1.43E-04	PLANH2 |HsT1201 |PAI-2 |PAI2 |PAI	SwissProt: P05120 # Inhibits urokinase-type plasminogen activator. The monocyte derived PAI-2 is distinct from the endothelial cell-derived PAI-1
6816247	BC065139	Itga2	integrin alpha 2	-3.87336	9.23E-08	GPIa |CD49B |VLAA2 |VLA-2 |CD49b |BR	SwissProt: P17301 # Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and o
6919693	BC031468	Rbm35a	RNA binding motif protein 35A	-3.87565	1.52E-05	FLJ20171	
6889273	BC005520	Ehf	ets homologous factor	-3.88182	5.04E-06	hEHF |ESE3 |ESE3B |ESEJ |ESE-3	SwissProt: Q9NZC4 # Transcriptional activator that may play a role in regulating epithelial cell differentiation and proliferation. May act as a repressor for a specific subset of ETS/AP-1-responsive genes and as a modulator of the nuclear response to mit
6834877	BC030399	Npal2	NIPA-like domain containing 2	-3.91187	3.62E-05	FLJ13955	
6872051	AF174583	Gda	guanine deaminase	-4.0138	7.15E-06	p51-nedasin |SLC25A16 |MGC9982 |Guanase |D10S105E |NEDASIN |CYPIN |GAH |GUANASE |OTTHUMP00000021463 |KIAA1258 |EC 3.5.4.3	SwissProt: Q9Y2T3 # Catalyzes the hydrolytic deamination of guanine, producing xanthine and ammonia (By similarity)
6932364	BC024392	Cxcl5	chemokine (C-X-C motif) ligand 5	-4.02713	3.75E-04	ENA-78 |ENA78 |ENA-78(1-78) |SCYB5	SwissProt: P42830 # Involved in neutrophil activation. In vitro, ENA-78(8-78) and ENA-78(9-78) show a threefold higher chemotactic activity for neutrophil granulocytes
6963003	AB031550	Stard10	START domain containing 10	-4.34763	2.72E-05	SDCCAG28 |PCTP-L |MGC14401 |PCTP2 |NY-CO-28 |StARD10 |CGI-52	SwissProt: Q9Y365 # May play specific roles in sperm maturation or fertilization (By similarity)
6783484	BC034841	Tmem100	transmembrane protein 100	-4.4141	3.86E-04	FLJ10970 |FLJ37856	
6974250	AF125308	Cln8	ceroid-lipofuscinosis, neuronal 8	-4.50282	5.65E-05	FLJ39417 |EPMR |C8orf61	
7018955	BC054113	Rps6ka6	ribosomal protein S6 kinase polypeptide 6	-4.88794	1.48E-04	RSK4 |OTTHUMP00000023618 |pp90RSK4 |RSK-4 |EC 2.7.11.1	SwissProt: Q9UK32 # Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB
6769304	X73359	Aes	amino-terminal enhancer of split	-5.03265	1.82E-05	AES-2 |GRG5 |GRG |AES-1 |ESP1 |TLE5	SwissProt: Q08117 # Acts as dominant repressor towards other family members. Inhibits NF-kappa-B-regulated gene expression. May be required for the initiation and maintenance of the differentiated state
6819877	BC016096	Scara5	scavenger receptor class A, member 5 (putative)	-5.67547	1.14E-04	Tesr |FLJ23907 |MGC45780	
6917273	BC019563	Tmem54	transmembrane protein 54	-5.87061	2.27E-04	OTTHUMP00000004136 |MGC10137 |CAC-1 |BCLP |CAC1	
6979914	AF033017	Kcnk1	potassium channel, subfamily K, member 1	-6.2182	6.41E-05	TWIK-1 |K2p1.1 |OTTHUMP00000036029 |TWIK1 |DPK |KCNO1 |HOHO1 |HOHO	SwissProt: O00180 # Weakly inward rectifying potassium channel
6753400	BC031131	Lad1	ladinin	-7.09833	6.69E-07	LADA |Lad-1 |OTTHUMP00000033878 |MGC10355 |LadA |LAD	SwissProt: O00515 # Anchoring filament protein which is a component of the basement membrane zone (By similarity)
6833382	M11686	Krt18	keratin 18	-7.22056	1.32E-04	K18 |CYK18 |Keratin-18 |Cytokeratin-18 |CK-18	SwissProt: P05783 # Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KR
6905530	BC119599	Gpr149	G protein-coupled receptor 149	-9.46421	5.43E-06	IEDA |PGR10	SwissProt: Q86SP6 # Orphan receptor
6852882	BC094465	Tacstd1	tumor-associated calcium signal transducer 1	-14.0999	4.35E-07	TROP1 |TACST-1 |MK-1 |M1S2 |ESA |CD326 |Ep-CAM |EGP40 |MOC31 |TACSTD1 |HEA125 |CO-17A |EGP |MH99 |EGP-2 |EGP34 |KS1/4 |M4S1 |323/A3 |Ly74 |KSA |17-1A |hEGP-2 |CO17-1A |MIC18 |GA733-2	SwissProt: P16422 # GA733 tumor-associated antigen gene family may function as growth factor receptors