

Supplementary Material to:

An unexpected role of semaphorin3A/neuropilin-1 signaling in lymphatic vessel maturation and valve formation

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Online methods:

***Ex vivo* isolation of colon LECs and BECs by high-speed cell sorting**

Eight-weeks-old C57BL/6J mice, maintained under conventional conditions, were used to obtain colon tissue for the *ex vivo* cell isolation of endothelial cells as previously described ¹. Briefly, the washed colon was cut into pieces and incubated in 8 mg/ml collagenase IV (Invitrogen, Carlsbad, CA), 0.5 mg/ml DnaseI (Roche, Rotkreuz, Switzerland), and 5 mM CaCl₂ in PBS at 37⁰C for 15 min. After passing through a cell strainer (BD Biosciences, Franklin Lakes, NJ), cell suspensions were centrifuged, resuspended and immunostained with allophycocyanin (APC)-conjugated rat anti-mouse CD31 antibody, fluorescein isothiocyanate (FITC)-conjugated rat anti-mouse CD45.2 antibody (BD Biosciences), or hamster anti-mouse podoplanin antibody (clone 8.1.1; Developmental Studies Hybridoma Bank, University of Iowa, Iowa City, IA) followed by anti-hamster phycoerythrin (PE)-conjugated secondary antibody (Invitrogen) or isotype control antibodies (BD Biosciences). FACS was performed using a FACS Aria and the FACSDiva software (BD Biosciences). Data were analyzed with FlowJo software (Treestar, Ashland, TN). Animal experiments were approved by the Kantonales Veterinaeramt Zurich.

RNA extraction and amplification

Colon LECs and BECs were sorted directly into 200 µl of 4⁰C RLT Plus lysis buffer (Qiagen, Basel, Switzerland) supplemented with β-mercaptoethanol for immediate cell lysis and RNA preservation. RNA was extracted from lysed cells with the RNeasy Plus Micro kit (Qiagen). Amplification of RNA was performed with the Whole Transcriptome-Ovation Pico RNA Amplification System (NuGEN Technologies, San

Carlos, CA). The primers had a DNA portion that hybridizes either to the 5' portion of the poly (A) sequence or randomly across the transcript. SPIA amplification, a linear isothermal DNA amplification process, was used to prepare single-stranded cDNA in the antisense direction of the mRNA starting material. The quantity and quality of amplified cDNA was determined with a NanoDrop ND 1000 (NanoDrop Technologies, Delaware, USA) and a Bioanalyzer 2100 (Agilent).

Microarray hybridization

Amplified RNA samples with good Bioanalyzer profile (peak length around 500 nt) were chosen for the microarray experiments. Single-stranded cDNA (4 µg) obtained from 4 matched pairs of LECs and BECs was fragmented and biotin-labeled using the FL-Ovation cDNA Biotin Module V2 kit (NuGEN Technologies). Biotin-labeled cDNA targets were mixed in 220 µl of Hybridization Mix (Affymetrix Inc., Santa Clara, CA) containing hybridization controls and control oligonucleotide B2 (Affymetrix Inc.). Samples were hybridized to GeneChip Mouse Genome 430 2.0 arrays for 18h at 45°C at the Functional Genomics Center Zurich. Arrays were washed using an Affymetrix Fluidics Station 450 FS450 0004 protocol. An Affymetrix GeneChip Scanner 3000 was used to measure the fluorescence intensity emitted by the labeled target.

Data processing, quality control and analyses

Quality control and summarization based on the MAS5.0 algorithm^{2,3} were performed in R using the *simpleaffy* package of BioConductor^{4,5}. Cell Intensity files (.CEL) were processed into expression values for all of the 45,101 probe sets (transcripts) on each array (n=8). Probe sets with a majority of absent detection calls in all groups were filtered out. Lists of differentially expressed probe sets were produced with pairwise comparisons with pairs defined as LECs and BECs from the same animal. Differentially expressed genes were selected if they passed t-test criteria ($p \leq 0.01$) and showed at least 2-fold changes between the two groups. The Affymetrix probe sets were translated to gene symbols using both the *biomaRt* library and annotation files provided by Affymetrix^{6,7}. All experiments were designed and all information was compiled in compliance with MIAME guidelines⁸. The array data have been deposited in the National Center for Biotechnology Information (NCBI) Gene Expression Omnibus (GEO) and are accessible through GEO Series accession no. GSE22034.

Quantitative real-time PCR

Ten ng of cDNA per reaction obtained by amplifying the RNA from sorted cells was used per reaction of the real-time PCR experiments. Taqman Gene Expression Master Mix and assays (Applied Biosystems, Foster City, CA) were used to determine the expression levels of VEGFR1 (Mm_01210866_m1), podoplanin (Mm00494716_m1), LYVE-1 (Mm01280692_m1), Nrp-1 (Mm01253206_m1) and Nrp-2 (Mm00803099_m1). Duplex reactions with beta-actin (4352341E) as endogenous control were run under standard conditions (AmpliTaq Gold enzyme activation 95⁰C for 10 min, 40 cycles of denaturation at 95⁰C for 15 sec and annealing and extension at 60⁰C for 1 min). Power SYBR Green PCR Master Mix (Applied Biosystems) and QuantiTect Primer Assays (Qiagen) were used to determine the expression levels of Sema3A (QT00173971), Sema3D (QT00125874) and Sema3G (QT1160887) with beta-actin as endogenous control (QT01136772). RNA was also extracted from human LECs and BECs, isolated and cultured as previously described ⁹, and from HUVEC cells (ScienCell, Carlsbad, USA) with the RNeasy Micro kit (Qiagen) including the on-column DNase treatment, and transcribed to cDNA using the High Capacity cDNA Reverse Transcription Kit (Applied Biosystems). QuantiTect Primer Assays (Qiagen) for human Sema3A (QT00040936), Sema3D (QT00037023) and beta-actin primers (forward: 5'-TCACCGAGCGCGGCT-3', reverse: 5'-TAATGTCACGCACGATTTCCC-3') were used with Power SYBR Green PCR Master Mix (Applied Biosystems), and PCR reactions were performed under standard conditions. A 7900HT Fast Real-Time PCR System (Applied Biosystems) was used for all qPCR experiments.

Immunohistochemistry

Serial sections of paraffin-embedded mouse colon were incubated at 60⁰ C for 4h, deparaffinized and boiled in citric buffer for antigen retrieval. After endogenous peroxidase block, sections were incubated in 1% Triton X-100 (Sigma Aldrich, Munich, Germany) and blocked with 1% BSA and 0.5% donkey serum in PBS. Immunostaining was performed with goat anti-Sema3A antibody (C-17, Santa Cruz, Santa Cruz, CA), rabbit anti-LYVE-1 antibody (kind gift from N. Gale, Regeneron Pharmaceuticals, Tarrytown NY) or goat IgG, followed by biotin-labeled secondary antibodies (Vector, Burlingame, CA). Streptavidin-conjugated peroxidase was used

with the AEC kit as a substrate (Vector). Hematoxylin was used for nuclear counterstains.

***In utero* treatment of mice**

Timed pregnancies were set up in FVB/N wild type mice. The morning when vaginal plugs were found was defined as day E0.5. On days E12.5, E14.4 and E16.5 the pregnant females (3 per group) received intraperitoneal injections of 1.2 mg of anti-Nrp-1A antibody, anti-Nrp-1B antibody^{10, 11} or the control mouse IgG antibody (Sigma). Neonatal pups were collected for analysis at day P5.5.

Whole-mount staining

Intestines with attached mesentery were collected from embryos or neonatal mice and fixed in 4% PFA. Intestines were pinned onto the silicon-coated 6-well-plates to expose the mesentery and were washed several times with PBS. Tissues were then incubated in immunomix solution (0.2% BSA, 5% donkey serum, 0.1% Triton X-100 and 0.05% sodium-azide in PBS) for 1h at room temperature. Primary antibodies were diluted in immunomix solution and were applied over night at room temperature, followed by washing with 0.1% Triton-X for 4h. Secondary antibodies were diluted in a 1:1 mixture of PBS and immunomix solution. Tissues were incubated at room temperature for 4h and washed with 0.1% Triton-X for 4h, followed by short postfixation with 4% PFA and several PBS washes. Thereafter, tissues were mounted in Vectashield (Vector) onto chambered coverglasses (Nunc, Rochester NY) for confocal imaging. Antibodies used were mouse Cy3-conjugated anti-SMA (Sigma), goat anti-VEGFR3 (AF743, R&D Systems Abingdon, United Kingdom), rabbit anti-Prox1 (kind gift from Dr. K. Alitalo), mouse anti-Nrp-1A¹⁰; goat anti-Nrp-1 (R&D Systems), hamster anti-CD31 (2H8 clone, Millipore, Billerica, MA, USA), goat anti-integrin-alpha 9 (R&D Systems), mouse anti-FNIIIIEA (clone FN-3E2, Sigma), rat anti-mouse CD31 (clone MEC 13.3, BD Biosciences), and AlexaFluor 488, 555, 594 or 647-conjugated secondary antibodies (Invitrogen). For some stainings ProLong® Gold antifade reagent with DAPI (Invitrogen) was used. For quantification of lymphatic valves, total number of valves identified by staining for integrin-alpha9 and FNEIIIA was counted on five mesenteric vessels in 2-3 mice subjected to each type of treatment. Whole-mount images were acquired with a LSM 710 FCS confocal

microscope and ZEN software (Zeiss, Jena, Germany) and processed with IMARIS software (Bitplane AG, Zürich, Switzerland).

Pericyte culture and migration

Primary human pericytes (PromoCell, Heidelberg, Germany) were cultured according to the manufacturer's recommendations. Total RNA was isolated from pericytes and HUVECs (ScienCell), and real-time PCR was performed with TaqMan gene expression assays for Nrp-1 (Hs00826128_m1) and CD31 (Hs00169777_m1), using the Taqman Gene Expression Master Mix (Applied Biosystems). Pericytes seeded onto chambered coverglass (Nunc) were fixed in 4% PFA and permeabilized with 0.3% Triton-X. Thereafter, cells were blocked with goat serum and primary goat antibody to Nrp-1 (clone C-19, Santa Cruz) or control goat IgG (Abcam, Cambridge, UK) were applied, followed by an AlexaFluor 594 conjugated secondary antibody (Invitrogen) and Hoechst bisbenzimidazole (Invitrogen). Images were acquired with a LSM 710 FCS confocal microscope and ZEN software (Zeiss). Transwell migration assays were performed using polycarbonate, 8 µm pore size-membrane 24-well plates (Corning Life sciences). 40,000 pericytes at passage 6-7 were seeded in serum-free medium onto the upper side of the insert that was coated with 1 µg/ml fibronectin (Millipore) on the bottom side and blocked with 0.2% BSA. Cells were allowed to migrate for 3h to the lower chamber containing either 1% FCS alone or also recombinant Sema3A (50, 100 or 200 ng/ml; R&D Systems) and Nrp-1A, Nrp-1B or control mouse IgG antibodies (20 µg/ml). Non-migrated cells were mechanically removed, migrated cells were stained with Hoechst bisbenzimidazole and 5 random images were taken per insert. Nuclei from 3 wells per condition were counted using the ImageJ program (National Institutes of Health, Bethesda), and the unpaired t-test was used to calculate the p-values.

Lymphatic vessel tracing

Approximately 3 µl of 5 mg/ml FITC-dextran (Mw ~2000 kDa; Invitrogen) was injected into the forelimb footpad of anaesthetized P5.5 mice (n=8 per group). After 2 min, forelimb lymphatic vessels were imaged noninvasively using a stereomicroscope Lumar.V12 and AxioCam digital camera (Zeiss). After 15 min, the pups were sacrificed, the overlaying skin was removed and the lymphatic vessels were imaged.

Immunofluorescence analysis

Abdominal skin and small intestine were dissected from treated and control pups (n=3-5 per group) at day P5.5 and snap frozen in optimal cutting temperature compound (Sakura Fintek, Zoeterwoude, NE). Eight- μ m cryosections were immunostained with rat anti-mouse CD31 antibody (BD Biosciences) and rabbit LYVE-1 antibody (Angiobio, Del Mar, CA) as described ¹. The tissue area occupied by vessels was quantified using IP LAB software (Scanalytics, Fairfax, VA).

Analysis of retinal neovascularization

Eyes from P5.5 pups (n=7-9 per group) were enucleated and retinas were dissected from the eyecup. After blocking and permeabilization in 0.5% BSA and 0.3% Triton X-100-containing PBS, staining with biotinylated isolectin B4 (Vector) diluted in PBLEC (0.1% Triton X-100, 0.1 mM CaCl₂, 0.1 mM MgCl₂, 0.1 mM MnCl₂, in PBS [pH 6.8]) was performed overnight at 4⁰C. Retinas were then washed and Alexa 488-streptavidin (Invitrogen) was added. Stained retinas were flat-mounted in Vectashield for imaging with an Axioskop2 motplus microscope and an AxioCam MRc digital camera (Zeiss). Vascular extension was calculated by measuring the distance from the optic nerve head to the vascular edge and the distance from the optic nerve head to the edge of retinal cup. Quantification of vascular density was performed by determining the area covered by vessels in the region of vascular remodeling ¹¹. The analyses were performed using Adobe PhotoShop CS4 Extended software.

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Online Figure legends:

Online Figure I. *In utero* blockade of Sema3A/Nrp-1 signaling leads to decreased body weight of mice at P5.5. Treatment of mice *in utero* (E12.5-E16.5) with an antibody that blocks Sema3A binding to Nrp-1 (anti-Nrp-1A), but not with an antibody that blocks VEGFA binding to Nrp-1 (anti-Nrp1B), resulted in reduced body weight of mice at day P5.5 when compared to control mice (lines indicate the mean value, **p<0.01, n=9-13).

Online Figure II. Additional examples of defective lymphatic vessel morphology and aberrant SMC coverage in anti-Nrp-1A treated mice. (A) Whole-mount preparations of mesenteries immunostained for CD31 (magenta), VEGFR3 (green) and Prox1 (red) were analyzed. When compared with control IgG-treated animals (first row), anti-Nrp-1A-treated animals (rows 2-4 representing 3 separate animals) showed defective collecting lymphatic vessels morphology in the mesentery (rows 2-4, arrowheads). CD31 staining differentiates lymphatic vessels (LV), veins (V) and arteries (A). Scale bars: 100 μ m. (B) Alpha-smooth muscle actin (α -SMA) expressing SMCs densely cover the vein (V) and artery (A), but not the Prox1 (red)-positive lymphatic vessels (asterisks) in control mice. Treatment of mice with anti-Nrp-1A antibody resulted in excessive coverage of collecting lymphatic vessels by SMCs (arrowheads), as shown by differential α -SMA (green) and Prox1 (red)

immunostaining of whole-mount prepared mesenteries at day P5.5. Scale bars: 50 μm . All images were obtained by confocal microscopy.

Online Figure III. (A) Fewer blood vessels are observed upon treatment with an antibody blocking VEGFA binding to Nrp-1 (anti-Nrp-1B). Representative images of abdominal skin cryosections of P5 mice stained for CD31 (red) and LYVE-1 (green). Scale bars: 100 μm . **(B)** Quantification of the area occupied by blood vessels (CD31-positive, LYVE-1-negative), expressed as the percentage of the area occupied by vessels in the whole skin area (* $p=0.047$, $n=3-5$). Bars represent mean value \pm standard deviation. **(C) Blockade of Sema3A binding to Nrp-1 does not affect vascular remodeling in the developing retina.** Representative images of P5.5 retina vasculature stained for isolectin B4. Scale bars: 500 μm . **(D)** Quantification of the vascular extension into the retina measured by dividing the distance from the optic nerve head to the edge of the vasculature with the distance from the optic nerve head to the retinal cup edge. **(E)** Vascular density quantification by measuring the area covered by vessels in the region of vascular remodeling. N (control IgG)=7, n (anti-Nrp-1A)=9. Bars represent mean value \pm standard deviation. Changes are not significant.

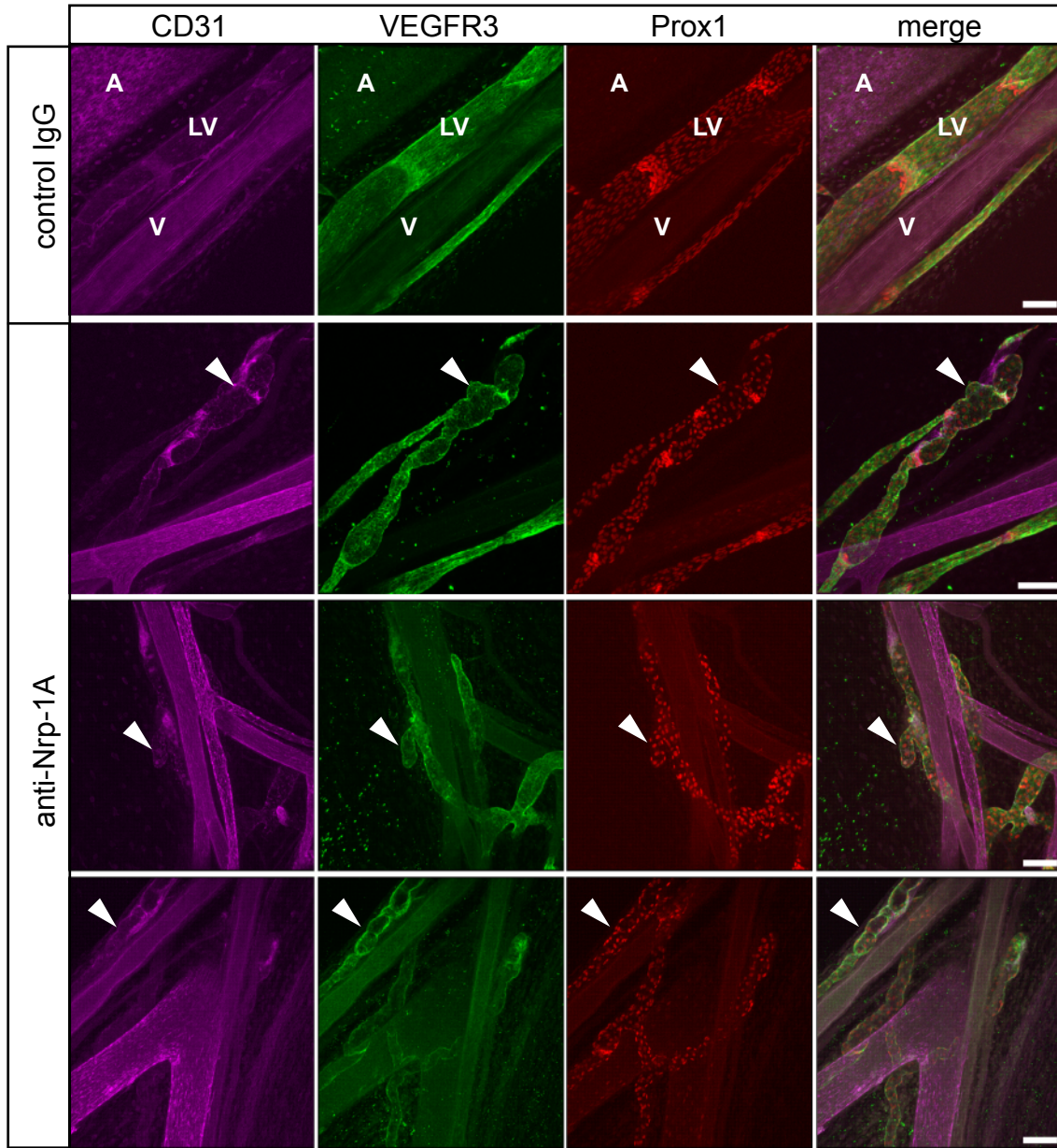
Online Table I. Gene microarray analysis of *ex vivo* isolated mouse intestinal lymphatic vs. blood vascular endothelial cells revealed genes that are specifically expressed by lymphatic endothelium. Complete list of significantly differentially expressed genes (\log_2 ratio ≥ 2 , p -value ≤ 0.01 , \log_2 signal ≥ 5 in LEC group).

Online Table II. Gene microarray analysis of *ex vivo* isolated mouse intestinal blood vascular endothelial cells vs. lymphatic endothelial cells revealed genes that are

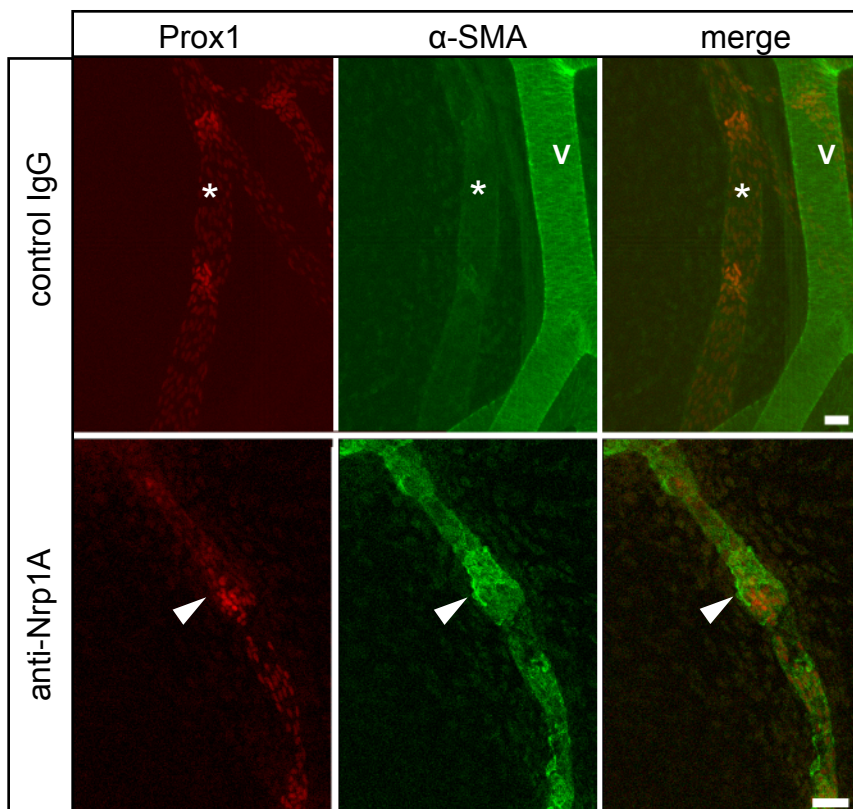
specifically expressed by blood vessel endothelium. Complete list of significantly differentially expressed genes (\log_2 ratio ≥ 2 , p-value ≤ 0.01 , \log_2 signal ≥ 5 in BEC group).

Online Figure II

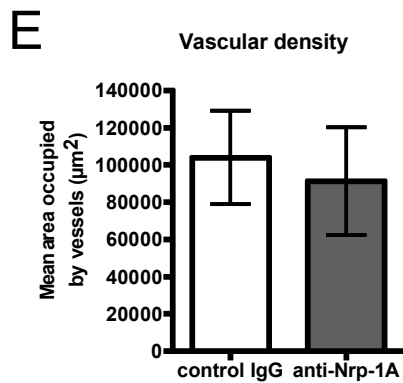
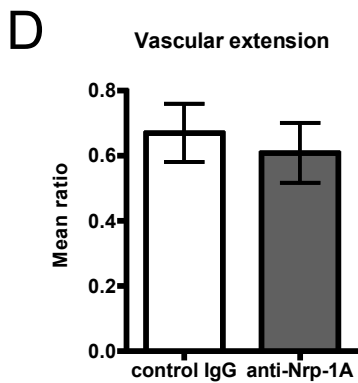
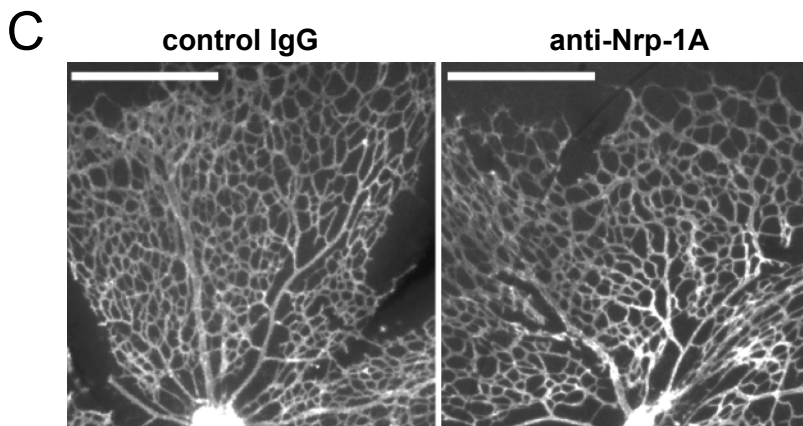
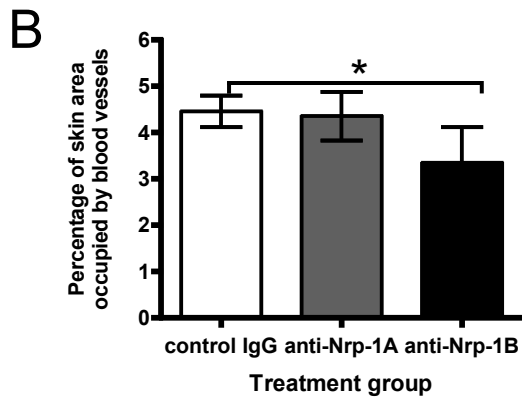
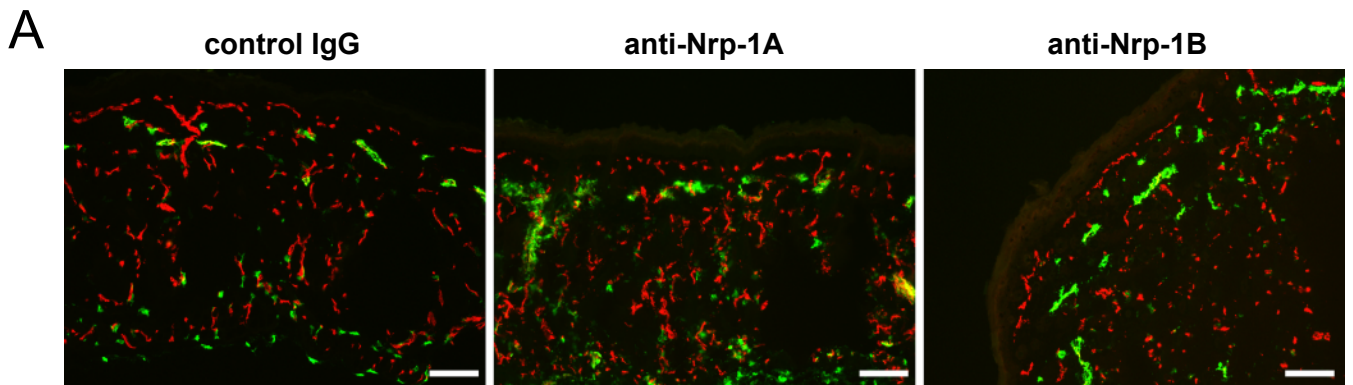
A



B



Online Figure III



Online Table I. Gene microarray analysis of *ex vivo* isolated mouse intestinal lymphatic vs. blood vascular endothelial cells revealed genes that are specifically expressed by lymphatic endothelium. Complete list of significantly differentially expressed genes (\log_2 ratio ≥ 2 , p -value ≤ 0.01 , \log_2 signal ≥ 5 in LEC group).

Probe ID	Gene Symbol	Gene Title	Entrez Gene ID	median \log_2 signal contBEC	median \log_2 signal contLEC	fold change contLEC vs. contBEC	p-value
1417894_at	Gpr97	G protein-coupled receptor 97	54672	0.28	10.45	1105.10	1.92E-04
1456060_at	Mafb	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	16658	3.76	12.65	833.69	6.63E-03
1427747_a_at	Lcn2	lipocalin 2	16819	0.86	10.06	717.33	4.36E-05
1416211_a_at	Ptn	pleiotrophin	19242	0.32	9.63	685.49	6.49E-05
1428157_at	Gng2	guanine nucleotide binding protein (G protein), gamma 2	14702	0.13	8.80	513.98	3.28E-04
1417455_at	Tgfb3	transforming growth factor, beta 3	21809	0.68	9.38	507.80	1.18E-03
1429459_at	Sema3d	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	108151	0.58	9.10	484.27	1.54E-04
1437260_at	Mmrn1	multimerin 1	70945	4.10	13.16	475.31	6.34E-05
1449465_at	Reln	reelin	19699	4.62	12.98	458.89	3.14E-04
1419309_at	Pdpn	podoplanin	14726	3.32	12.24	455.70	1.83E-06
1429379_at	Lyve1	lymphatic vessel endothelial hyaluronan receptor 1	114332	3.99	12.90	447.12	6.53E-06
1419426_s_at	Ccl21	chemokine (C-C motif) ligand 21	65956	5.12	14.20	422.31	3.07E-03
1447849_s_at	Mafb	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	16658	-0.47	8.80	411.24	3.12E-03
1422313_a_at	Igfbp5	insulin-like growth factor binding protein 5	16011	6.16	13.35	356.48	4.90E-03
1422080_at	Il7	interleukin 7	16196	-0.79	7.38	354.30	4.11E-05
1423135_at	Thy1	thymus cell antigen 1, theta	21838	3.97	12.54	323.70	7.08E-05
1437473_at	Mafb	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	16658	4.16	12.25	314.57	2.71E-03
1426664_x_at	Slc45a3	solute carrier family 45, member 3	212980	-0.14	9.84	310.19	8.52E-03
1427054_s_at	Abi3bp	ABI gene family, member 3 (NESH) binding protein	320712	1.08	8.99	298.89	1.41E-03
1429210_at	Col23a1	collagen, type XXIII, alpha 1	237759	-0.58	6.36	231.45	1.17E-04
1453128_at	Lyve1	lymphatic vessel endothelial hyaluronan receptor 1	114332	5.44	13.51	227.20	2.03E-04
1432103_a_at	Sh3gl3	SH3-domain GRB2-like 3	20408	0.75	8.59	218.89	6.36E-05
1417806_at	Popdc2	popeye domain containing 2	64082	0.88	8.34	218.12	3.27E-05
1434188_at	Slc16a12	solute carrier family 16 (monocarboxylic acid transporters), member 12	240638	0.42	8.04	215.97	3.26E-03
1426915_at	Dapk1	death associated protein kinase 1	69635	0.79	8.04	196.64	2.31E-05
1437894_at	Prox1	prospero-related homeobox 1	19130	3.61	11.50	190.78	1.33E-05
1422112_at	Ccbp2	chemokine binding protein 2	59289	0.78	8.47	189.60	1.43E-04
1419476_at	Adamdec1	ADAM-like, decysin 1	58860	2.69	9.82	175.69	3.24E-03
1433523_at	D930005D10Rik	RIKEN cDNA D930005D10 gene	231858	0.99	7.96	173.85	3.13E-05
1450798_at	Tnxb	tenascin XB	81877	2.60	10.31	172.75	2.09E-05
1420416_at	Sema3a	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	20346	1.61	9.38	169.28	1.49E-03
1452114_s_at	Igfbp5	insulin-like growth factor binding protein 5	16011	5.69	12.90	166.55	2.87E-04
1421854_at	Fgl2	fibrinogen-like protein 2	14190	5.53	12.84	160.64	9.50E-05
1420851_at	Pard6g	par-6 partitioning defective 6 homolog gamma (C. elegans)	93737	4.16	11.17	158.42	1.05E-03
1457432_at	Prox1	prospero-related homeobox 1	19130	2.71	10.77	157.72	7.09E-04
1458534_at	Rgs7bp	regulator of G-protein signalling 7 binding protein	52882	-0.45	7.44	157.19	4.55E-03
1421855_at	Fgl2	fibrinogen-like protein 2	14190	5.29	11.44	156.51	6.31E-03
1426511_at	Susd2	sushi domain containing 2	71733	1.81	8.71	153.32	7.61E-05
1457743_at	---	---	52882	-0.79	5.52	149.12	2.51E-04
1436833_x_at	Till1	tubulin tyrosine ligase-like 1	319953	0.54	7.78	142.36	4.90E-03
1426442_at	Gpm6a	glycoprotein m6a	234267	3.89	10.98	140.40	8.13E-06
1433509_s_at	Reep1	receptor accessory protein 1	52250	0.69	8.08	139.95	8.95E-03
1434264_at	Ank2	ankyrin 2, brain	109676	1.64	7.71	139.63	4.00E-04
1416666_at	Serpine2	serine (or cysteine) peptidase inhibitor, clade E, member 2	20720	5.86	11.85	138.14	8.76E-03
1450025_at	Pard6g	par-6 partitioning defective 6 homolog gamma (C. elegans)	93737	1.46	9.50	137.47	4.48E-03
1417496_at	Cp	ceruloplasmin	12870	5.22	11.62	137.18	2.44E-03
1426865_a_at	Ncam1	neural cell adhesion molecule 1	17967	-0.29	6.30	134.96	1.13E-03
1458659_at	Plac9	placenta specific 9	211623	1.87	8.25	131.81	3.76E-03
1437937_at	Ccbp2	chemokine binding protein 2	59289	2.88	10.86	126.40	7.28E-03
1456741_s_at	Gpm6a	glycoprotein m6a	234267	5.20	11.70	123.54	6.92E-04
1458020_at	Reln	Reelin	19699	0.27	6.69	122.02	1.19E-03
1441326_at	Cp	ceruloplasmin	12870	-0.54	6.93	115.26	2.98E-03
1425822_a_at	Dtx1	deltex 1 homolog (Drosophila)	14357	3.96	10.52	110.09	5.80E-05
1455096_at	Firt2	fibronectin leucine rich transmembrane protein 2	399558	-0.44	7.24	105.20	9.97E-03
1450430_at	Mrc1	mannose receptor, C type 1	17533	3.22	9.67	101.23	2.57E-04
1453148_at	Sema3d	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	108151	3.24	9.95	100.71	1.96E-07
1449865_at	Sema3a	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A	20346	3.21	9.56	100.55	4.83E-05
1416986_a_at	Sirpa	signal-regulatory protein alpha	19261	4.43	10.20	99.56	1.23E-03
1421696_at	F430003O07Rik /// Pkhd11	Riken cDNA F430003O07 gene /// polycystic kidney and hepatic disease 1-like 1	100126676	1.23	8.98	97.57	2.76E-03
1417889_at	Apobec2	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 2	11811	1.07	7.44	97.08	9.88E-05
1435828_at	Mafb	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	16658	2.37	7.82	95.04	4.57E-03

1438780_at	---	---		0.31	6.64	94.21	2.36E-04
1425476_at	Col4a5	collagen, type IV, alpha 5	12830	0.57	6.81	94.14	3.35E-03
1434465_x_at	Vldlr	very low density lipoprotein receptor	22359	2.08	8.92	88.59	4.59E-03
1448550_at	Lbp	lipopolysaccharide binding protein	16803	4.80	11.20	88.04	1.50E-04
1430153_at	Tmod2	tropomodulin 2	50876	0.93	7.57	84.93	9.08E-03
1427053_at	Abi3bp	ABI gene family, member 3 (NESH) binding protein	320712	0.53	6.64	83.20	2.78E-03
1455301_at	Wipf3	WAS/WASL interacting protein family, member 3	330319	5.69	11.65	82.93	9.63E-04
1451827_a_at	Nox4	NADPH oxidase 4	50490	-0.27	5.66	80.51	6.80E-03
1428111_at	Slc38a4	solute carrier family 38, member 4	69354	0.82	6.83	74.91	3.16E-03
1421336_at	Prox1	prospero-related homeobox 1	19130	3.00	8.76	73.21	5.74E-03
1450876_at	Cfh	complement component factor h	12628	3.25	8.52	72.41	4.85E-03
1449484_at	Stc2	stanniocalcin 2	20856	1.62	7.74	71.52	1.56E-03
1452779_at	3110006E14Rik	RIKEN cDNA 3110006E14 gene	76980	-0.36	6.06	70.94	4.32E-03
1416321_s_at	Prelp	proline arginine-rich end leucine-rich repeat multimerin 1	116847	6.04	12.07	70.87	2.44E-04
1430621_at	Mmm1	---	70945	2.48	7.83	68.55	2.62E-03
1435579_at	---	---	---	0.31	7.04	68.33	1.00E-03
1448254_at	Ptn	pleiotrophin	19242	4.15	9.89	63.88	3.72E-04
1434709_at	Nrcam	neuron-glia-CAM-related cell adhesion molecule	319504	3.60	8.49	63.81	4.10E-03
1433500_at	Dennd2a	DENN/MADD domain containing 2A	209773	1.48	7.79	63.53	2.30E-03
1439045_x_at	Tc2n	tandem C2 domains, nuclear	74413	1.87	7.04	63.30	4.26E-03
1424007_at	Gdf10	growth differentiation factor 10	14560	-0.42	6.33	63.10	4.98E-04
1450805_at	Sgcd	sarcoglycan, delta (dystrophin-associated glycoprotein)	24052	1.48	8.30	62.69	2.39E-03
1447869_x_at	Rhobtb3	Rho-related BTB domain containing 3	73296	0.44	6.24	62.62	1.07E-03
1422694_at	Ttyh1	tweety homolog 1 (Drosophila)	57776	1.91	6.60	62.46	6.77E-03
1426562_a_at	Olfm1	olfactomedin 1	56177	1.27	6.90	59.72	1.12E-05
1445394_at	---	---	---	1.42	8.06	59.18	2.41E-03
1420876_a_at	Sep6	septin 6	56526	2.18	7.95	56.84	2.18E-03
1449178_at	Pdlim3	PDZ and LIM domain 3	53318	5.07	10.03	56.64	2.06E-03
1431004_at	LOC100047339	similar to lysyl oxidase-like 2	100047339	2.11	7.76	56.44	3.94E-04
1447812_x_at	Fln	filamin C, gamma (actin binding protein 280)	68794	4.68	10.49	55.83	2.60E-04
1442576_at	Creb5	cAMP responsive element binding protein 5	231991	0.15	5.85	55.21	5.42E-04
1421852_at	Kcnk5	potassium channel, subfamily K, member 5	16529	3.46	8.43	55.09	2.95E-03
1426326_a_at	Scn3b	sodium channel, voltage-gated, type III, beta	235281	0.36	5.81	55.03	4.43E-03
1452436_at	Lox2	lysyl oxidase-like 2	94352	2.13	8.10	54.16	5.18E-03
1453321_at	Fndc1	fibronectin type III domain containing 1	68655	4.38	10.18	53.48	7.65E-05
1436021_at	Mfsd4	major facilitator superfamily domain containing 4	213006	3.48	9.15	51.39	1.67E-03
1443646_at	Igslf10	immunoglobulin superfamily, member 10	242050	0.05	5.22	50.71	7.01E-03
1422987_at	Ntn1	netrin 1	18208	3.33	8.43	50.70	5.46E-04
1446658_at	---	---	---	1.98	7.47	50.63	4.55E-03
1448889_at	Slc38a4	solute carrier family 38, member 4	69354	2.41	7.59	49.35	4.90E-04
1430073_at	2900016B01Rik	RIKEN cDNA 2900016B01 gene	67262	4.64	10.80	49.31	3.82E-04
1437559_at	Rgs7bp	regulator of G-protein signalling 7 binding protein	52882	0.64	5.73	48.85	6.85E-03
1460593_at	Susd4	sushi domain containing 4	96935	2.21	7.78	48.31	4.12E-03
1420444_at	Slc22a3	solute carrier family 22 (organic cation transporter), member 3	20519	3.27	8.11	47.82	4.90E-04
1417494_a_at	Cp	ceruloplasmin	12870	6.11	11.78	47.28	2.40E-06
1416693_at	Foxc2	forkhead box C2	14234	3.15	8.80	46.93	7.25E-03
1420484_a_at	Vtn	vitronectin	22370	2.93	7.63	46.08	1.38E-03
1422860_at	Nts	neurotensin	67405	3.75	8.99	45.87	5.94E-03
1417495_x_at	Cp	ceruloplasmin	12870	5.93	11.88	44.72	2.31E-04
1429209_at	Col23a1	collagen, type XXIII, alpha 1	237759	2.73	8.04	44.64	2.09E-03
1418606_at	Hoxd10	homeo box D10	15430	3.89	8.21	44.32	2.91E-03
1452408_at	---	---	436440	1.70	6.46	43.94	5.33E-03
1427140_at	Pvt1	plasmacytoma variant translocation 1	19296	-0.64	5.84	43.61	7.49E-03
1430119_at	Fndc1	fibronectin type III domain containing 1	68655	0.91	6.59	43.35	3.45E-03
1445888_x_at	Parp3	poly (ADP-ribose) polymerase family, member 3	235587	2.27	8.34	42.90	4.07E-03
1434265_s_at	Ank2	ankyrin 2, brain	109676	2.23	7.48	42.72	3.74E-04
1435465_at	Ktbd11	kelch repeat and BTB (POZ) domain containing 11	74901	6.17	11.62	42.64	6.21E-03
1456250_x_at	Tgfb1	transforming growth factor, beta induced	21810	6.26	11.14	42.28	5.63E-04
1425779_a_at	Tbx1	T-box 1	21380	3.97	9.16	41.85	7.01E-03
1455098_a_at	Vtn	vitronectin	22370	2.51	7.22	41.56	1.80E-03
1430543_at	Clip3	CAP-GLY domain containing linker protein 3	76686	3.19	8.18	40.85	1.06E-03
1426044_a_at	Prkcc	protein kinase C, theta	18761	2.24	7.57	40.54	7.80E-04
1419100_at	Serpina3n	serine (or cysteine) peptidase inhibitor, clade A, member 3N	20716	2.49	7.56	40.11	2.95E-04
1448158_at	Sdc1	syndecan 1	20969	3.38	7.03	39.75	7.07E-03
1455556_at	Notch2	Notch gene homolog 2 (Drosophila)	18129	5.65	10.99	37.35	7.66E-03
1424450_at	Gprc5c	G protein-coupled receptor, family C, group 5, member C	70355	2.22	6.74	37.29	1.63E-03
1428136_at	Sfrp1	secreted frizzled-related protein 1	20377	2.06	6.65	37.28	2.09E-03
1454974_at	Ntn1	netrin 1	18208	6.05	11.45	36.39	3.01E-04
1436658_at	B130024G19Rik	RIKEN cDNA B130024G19 gene	434198	0.91	5.07	36.02	1.63E-03
1430313_at	Adamts1	ADAMTS-like 1	77739	3.06	8.03	35.71	7.26E-03
1448123_s_at	Tgfb1	transforming growth factor, beta induced	21810	6.24	11.60	34.41	1.79E-04
1429946_at	2610301F02Rik	RIKEN cDNA 2610301F02 gene	545428	0.94	6.43	33.95	2.58E-04
1432028_at	Rab11fp2	RAB11 family interacting protein 2 (class I)	74998	1.24	6.05	33.83	3.14E-04
1452655_at	Zdhhc2	zinc finger, DHHC domain containing 2	70546	1.14	5.78	33.57	6.82E-03
1441610_at	LOC100044356 // N28178	similar to mKAA1045 protein /// expressed sequence N28178	100044356	-0.05	5.24	33.56	6.26E-03
1437081_at	Timp2	Tissue inhibitor of metalloproteinase 2	21858	5.03	10.05	33.32	4.48E-04
1416159_at	Nr2f2	nuclear receptor subfamily 2, group F, member 2	11819	4.89	10.41	33.27	5.56E-04
1447520_at	Lbp	lipopolysaccharide binding protein	16803	2.13	7.78	32.71	3.20E-04
1417343_at	Fxyd6	FXYD domain-containing ion transport regulator 6	59095	5.21	10.18	32.48	7.90E-04
1426981_at	Pcsk6	proprotein convertase subtilisin/kexin type 6	18553	5.20	10.29	32.44	3.96E-03
1455049_at	Igslf3	immunoglobulin superfamily, member 3	78908	4.32	8.67	31.70	1.91E-03

1429466_s_at	Aph1b	anterior pharynx defective 1b homolog (C. elegans)	208117	4.09	9.14	31.62	1.20E-04
1437463_x_at	Tgfb1	transforming growth factor, beta induced	21810	6.10	10.78	30.86	1.00E-04
1420871_at	Gucy1b3	guanylate cyclase 1, soluble, beta 3	54195	5.23	9.78	30.12	1.28E-04
1416322_at	Prep1	proline arginine-rich end leucine-rich repeat	116847	7.77	12.83	30.11	9.33E-04
1449038_at	Hsd11b1	hydroxysteroid 11-beta dehydrogenase 1	15483	2.95	7.06	29.26	1.76E-03
1458954_at	621580	Predicted gene, 621580	621580	2.98	8.03	28.79	7.00E-04
1439223_at	Tmod2	tropomodulin 2	50876	2.68	7.54	28.57	4.77E-03
1447938_at	Gm2172	predicted gene 2172	100039344	2.72	7.97	28.32	3.29E-03
1416548_at	Slc35b4	solute carrier family 35, member B4	58246	1.48	5.64	28.22	6.38E-03
1447848_at	Eps151	epidermal growth factor receptor pathway substrate 15-like 1	13859	3.28	7.86	28.17	4.84E-03
1417577_at	Trpc3	transient receptor potential cation channel, subfamily C, member 3	22065	2.10	6.74	28.12	3.73E-04
1433719_at	Slc9a9	solute carrier family 9 (sodium/hydrogen exchanger), member 9	331004	2.02	7.79	28.11	6.88E-03
1419161_a_at	Nox4	NADPH oxidase 4	50490	1.18	5.88	27.59	2.59E-04
1456500_at	Aph1b	anterior pharynx defective 1b homolog (C. elegans)	208117	4.98	9.71	27.00	1.80E-03
1435842_at	Nat8l	N-acetyltransferase 8-like	269642	2.39	7.39	26.85	3.39E-03
1453102_at	Flrt3	fibronectin leucine rich transmembrane protein 3	71436	3.50	7.58	26.81	7.51E-03
1441411_at	Lims1	LIM and senescent cell antigen-like domains 1	110829	0.65	5.17	26.80	4.24E-03
1451119_a_at	Fbln1	fibulin 1	14114	4.76	8.75	26.66	2.25E-03
1442144_at	Emid1	EMI domain containing 1	140703	1.35	6.65	26.43	5.64E-04
1419527_at	Comp	cartilage oligomeric matrix protein	12845	4.32	8.85	26.40	3.36E-04
1448194_a_at	H19	H19 fetal liver mRNA	14955	2.07	6.32	25.45	2.31E-03
1423153_x_at	Cfh	complement component factor h	12628	3.84	8.56	25.34	2.42E-05
1454314_at	4930578G10Rik	RIKEN cDNA 4930578G10 gene	75952	1.97	6.87	25.17	2.41E-03
1437697_at	Rad23a	RAD23a homolog (S. cerevisiae)	19358	1.13	5.32	24.84	8.79E-03
1452946_a_at	Rftn2	raftin family member 2	74013	5.14	9.34	24.69	3.33E-03
1446094_at	---	---	---	---	5.13	24.61	2.05E-04
1423537_at	Gap43	growth associated protein 43	14432	1.47	6.23	24.52	4.07E-03
1426955_at	Col18a1	collagen, type XVIII, alpha 1	12822	5.60	10.43	24.49	7.69E-04
1451264_at	Frdm6	FERM domain containing 6	319710	3.29	7.38	24.28	4.06E-03
1455393_at	Cp	ceruloplasmin	12870	6.86	11.56	23.92	8.67E-06
1440884_s_at	A530047J11Rik	RIKEN cDNA A530047J11 gene	103767	1.52	5.61	23.21	5.70E-04
1431322_at	IgSF3	immunoglobulin superfamily, member 3	78908	2.64	6.97	22.95	2.38E-03
1442063_at	Adamts1	ADAMTS-like 1	77739	3.43	8.26	22.71	6.22E-03
1440911_at	Col23a1	collagen, type XXIII, alpha 1	237759	4.13	7.90	22.49	2.45E-03
1451838_a_at	Tc2n	tandem C2 domains, nuclear	74413	3.59	7.88	22.31	2.30E-03
1435060_at	Tmod2	tropomodulin 2	50876	4.41	8.39	22.17	3.05E-03
1455796_x_at	Olfm1	olfactomedin 1	56177	7.11	11.60	22.14	6.93E-04
1434891_at	Ptgrn	prostaglandin F2 receptor negative regulator	19221	5.99	10.49	22.00	5.15E-03
1431424_at	2810055G20Rik	RIKEN cDNA 2810055G20 gene	77994	2.46	7.06	21.67	1.41E-03
1421096_at	Trpc1	transient receptor potential cation channel, subfamily C, member 1	22063	1.55	6.05	21.27	1.66E-03
1457681_at	2610301F02Rik	RIKEN cDNA 2610301F02 gene	545428	3.11	7.17	20.91	1.33E-03
1435793_at	Aph1b	anterior pharynx defective 1b homolog (C. elegans)	208117	6.34	10.57	20.00	2.36E-03
1426217_at	Tmem216	transmembrane protein 216	68642	0.67	5.09	20.00	5.28E-03
1425784_a_at	Olfm1	olfactomedin 1	56177	5.31	9.20	19.49	3.90E-03
1436868_at	Rtn4r1	reticulum 4 receptor-like 1	237847	3.67	7.76	19.15	8.95E-04
1447222_at	Hspa12a	heat shock protein 12A	73442	3.10	6.84	19.02	3.76E-03
1436861_at	Il7	interleukin 7	16196	4.20	8.28	18.94	1.75E-04
1453831_at	Tmem138	transmembrane protein 138	72982	1.92	5.98	18.80	2.38E-03
1428803_at	Acolf6	acyl-CoA thioesterase 6	217700	1.68	5.23	18.60	8.33E-03
1435657_at	---	---	---	---	5.10	18.56	2.96E-04
1447250_a_at	2610301F02Rik	RIKEN cDNA 2610301F02 gene	545428	3.11	7.47	18.56	9.12E-03
1460412_at	Fbln7	fibulin 7	70370	3.07	6.58	18.46	3.79E-03
1443821_at	---	---	---	---	2.87	18.29	2.17E-03
1458370_at	Bmp2k	BMP2 inducible kinase	140780	5.41	9.59	18.25	2.55E-05
1427288_at	Apba2	amyloid beta (A4) precursor protein-binding, family A, member 2	11784	1.93	5.94	18.02	3.10E-03
1455048_at	IgSF3	immunoglobulin superfamily, member 3	78908	3.91	7.95	17.89	6.03E-03
1420150_at	Spsb1	splA/ryanodine receptor domain and SOCS box containing 1	74646	5.32	9.60	17.70	5.78E-03
1452590_a_at	Plac9	placenta specific 9	211623	9.47	13.70	17.50	1.38E-05
1451542_at	Ssbp2	single-stranded DNA binding protein 2	66970	2.67	6.29	17.44	3.33E-04
1429310_at	Flrt3	fibronectin leucine rich transmembrane protein 3	23767	3.31	6.96	17.26	4.92E-03
1422510_at	Ctdspl	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	69274	5.35	9.07	17.01	1.37E-04
1436475_at	Nr2f2	nuclear receptor subfamily 2, group F, member 2	11819	3.82	7.61	16.82	4.55E-03
1416625_at	Serpig1	serine (or cysteine) peptidase inhibitor, clade G, member 1	12258	6.60	10.72	16.68	1.16E-04
1420930_s_at	Ctnn1	catenin (cadherin associated protein), alpha-like 1	54366	3.90	7.63	16.59	3.77E-03
1417636_at	Slc6a9	solute carrier family 6 (neurotransmitter transporter, glycine), member 9	14664	5.29	8.71	16.33	9.01E-04
1418237_s_at	Col18a1	collagen, type XVIII, alpha 1	12822	6.09	9.48	16.30	8.31E-03
1455685_at	Mical2	microtubule associated monooxygenase, calponin and LIM domain containing 2	320878	5.72	10.18	16.11	2.98E-03
1435214_at	Gjc2	gap junction protein, gamma 2	118454	1.58	5.54	16.08	7.65E-04
1435907_at	Nrxn2	neurexin II	18190	2.32	5.87	15.99	2.72E-04
1447939_a_at	Gm2172	predicted gene 2172	100039344	4.32	8.47	15.78	7.58E-04
1433647_s_at	Rhobtb3	Rho-related BTB domain containing 3	73296	1.57	5.80	15.77	3.90E-03
1447937_a_at	Gm2172	predicted gene 2172	100039344	4.67	8.73	15.75	9.30E-05
1437057_at	Megf6	multiple EGF-like-domains 6	230971	2.98	6.82	15.64	1.66E-03
1448383_at	Mmp14	matrix metalloproteinase 14 (membrane-inserted)	17387	4.97	8.40	15.54	1.12E-03

1420823_at	Sema4d	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	20354	2.07	5.63	15.47	3.40E-03
1449123_at	Itih3	inter-alpha trypsin inhibitor, heavy chain 3	16426	4.22	7.41	15.30	5.37E-03
1448175_at	Ehd1	EH-domain containing 1	13660	6.26	10.40	15.23	2.13E-04
1439078_at	Klhl4	kelch-like 4 (Drosophila)	237010	5.64	9.33	15.20	3.90E-04
1436819_at	Sep6	septin 6	56526	4.31	8.44	15.07	6.07E-03
1425475_at	Col4a5	collagen, type IV, alpha 5	12830	2.43	6.61	15.06	9.03E-04
1443029_at	Ppfbp1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	67533	2.46	5.83	15.05	8.14E-03
1449106_at	Gpx3	glutathione peroxidase 3	14778	4.44	8.98	14.92	8.54E-03
1419746_at	4933428G20Rik	RIKEN cDNA 4933428G20 gene	58996	1.69	5.73	14.81	1.16E-04
1451889_at	Notch2	Notch gene homolog 2 (Drosophila)	18129	4.96	8.55	14.80	5.08E-04
1437419_at	Bmp2k	BMP2 inducible kinase	140780	4.48	8.43	14.24	6.71E-05
1420824_at	Sema4d	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	20354	4.57	8.68	14.11	4.83E-03
1440159_at	1700010B09Rik	RIKEN cDNA 1700010B09 gene	69341	2.15	6.16	14.00	7.37E-03
1431810_a_at	Tmco4	transmembrane and coiled-coil domains 4	77056	2.74	6.52	13.83	2.41E-04
1457222_at	Creb5	cAMP responsive element binding protein 5	231991	5.31	8.38	13.38	9.60E-03
1425749_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	4.12	7.51	13.28	1.22E-03
1437017_at	AI480653	expressed sequence AI480653	268880	1.72	5.12	12.85	7.25E-03
1453191_at	Col27a1	collagen, type XXVII, alpha 1	373864	1.37	5.53	12.83	5.38E-03
1415922_s_at	Marcks1	MARCKS-like 1	17357	4.19	7.26	12.74	7.95E-03
1433776_at	Lhfp	lipoma HMGIC fusion partner	108927	5.97	9.72	12.66	1.60E-03
1422137_at	Duoxa2	dual oxidase maturation factor 2	66811	2.19	5.59	12.45	7.41E-03
1444073_at	Maf	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog		4.31	8.01	12.38	2.03E-04
1436978_at	Wnt9a	wingless-type MMTV integration site 9A	216795	3.74	7.91	12.18	9.54E-03
1448534_at	Sirpa	signal-regulatory protein alpha	19261	5.60	9.29	12.09	2.37E-03
1420860_at	Itga9	integrin alpha 9	104099	6.00	9.36	11.97	9.09E-03
1452295_at	Pmepa1	prostate transmembrane protein, androgen induced 1	65112	2.79	5.83	11.84	2.67E-03
1451693_a_at	Fgf12	fibroblast growth factor 12	14167	3.82	8.02	11.83	2.17E-03
1452398_at	Plce1	phospholipase C, epsilon 1	74055	4.00	7.72	11.82	5.12E-03
1416371_at	Apod	apolipoprotein D	11815	4.26	8.07	11.75	3.71E-04
1450627_at	Ank	progressive ankylosis	11732	4.06	8.04	11.64	4.77E-03
1423055_at	Nsg1	neuron specific gene family member 1	18196	5.73	9.15	11.60	1.25E-03
1456130_at	LOC553091	hypothetical LOC553091	553091	5.24	8.43	11.45	7.07E-04
1416892_s_at	3110001A13Rik	RIKEN cDNA 3110001A13 gene	66540	4.96	8.62	11.44	3.77E-03
1453445_at	9030601B04Rik	RIKEN cDNA 9030601B04 gene	71511	3.20	6.79	11.44	9.80E-03
1460287_at	Timp2	tissue inhibitor of metalloproteinase 2	21858	8.46	12.10	11.42	2.19E-04
1448931_at	F2r1	coagulation factor II (thrombin) receptor-like 1	14063	6.29	10.22	11.27	5.77E-03
1460732_a_at	Ppl	periplakin	19041	3.07	6.28	11.24	9.83E-03
1433662_s_at	Timp2	tissue inhibitor of metalloproteinase 2	21858	8.82	12.51	11.21	4.43E-04
1436246_at	---	---		3.34	6.82	10.89	7.62E-03
1452384_at	Enpp3	ectonucleotide pyrophosphatase/phosphodiesterase 3	209558	4.80	8.26	10.77	2.21E-03
1418595_at	S3-12	plasma membrane associated protein, S3-12	57435	1.65	5.45	10.60	2.99E-03
1453481_at	Zdhhc2	zinc finger, DHHC domain containing 2	70546	3.93	7.50	10.60	8.81E-03
1442841_at	---	---		1.25	5.24	10.60	4.32E-03
1419193_a_at	Gmfg	glia maturation factor, gamma	63986	5.04	9.03	10.56	5.02E-03
1420534_at	Gucy1a3	guanylate cyclase 1, soluble, alpha 3	60596	7.97	11.54	10.54	8.12E-04
1460242_at	Cd55	CD55 antigen	13136	6.85	10.39	10.53	1.02E-04
1459317_at	Ank2	ankyrin 2, brain	109676	2.06	5.26	10.48	8.17E-03
1432216_s_at	Mpp7	membrane protein, palmitoylated 7 (MAGUK p5 subfamily member 7)	75739	5.87	9.86	10.45	5.61E-03
1424902_at	Plexdc1	plexin domain containing 1	72324	3.99	7.21	10.31	4.87E-03
1435396_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	6.69	9.52	10.26	8.89E-03
1419693_at	Colec12	collectin sub-family member 12	140792	3.09	6.74	10.16	1.32E-03
1435908_at	Nrxn2	neurexin II	18190	4.95	8.42	10.16	6.46E-04
1415691_at	Dlg1	discs, large homolog 1 (Drosophila)	13383	7.36	10.81	10.12	4.71E-03
1420533_at	Gucy1a3	guanylate cyclase 1, soluble, alpha 3	60596	7.58	10.98	10.06	2.51E-03
1460223_a_at	Epb4.9	erythrocyte protein band 4.9	13829	4.75	7.45	9.93	7.78E-03
1434141_at	Gucy1a3	guanylate cyclase 1, soluble, alpha 3	60596	6.93	10.22	9.83	2.83E-03
1453343_s_at	Vrk2	vaccinia related kinase 2	69922	1.64	5.03	9.75	3.50E-03
1416011_x_at	Ehd1	EH-domain containing 1	13660	6.86	10.36	9.74	2.49E-03
1449531_at	Leprel2	leprecan-like 2	14789	3.65	6.71	9.60	7.93E-03
1454677_at	Timp2	tissue inhibitor of metalloproteinase 2	21858	8.79	12.15	9.58	1.09E-03
1455033_at	B430201A12Rik	RIKEN cDNA B430201A12 gene	329739	6.37	9.10	9.30	6.59E-03
1420859_at	Pkia	protein kinase inhibitor, alpha	18767	4.82	7.71	9.23	1.27E-03
1450040_at	Timp2	tissue inhibitor of metalloproteinase 2	21858	8.76	12.17	9.15	1.93E-03
1419194_s_at	Gmfg	glia maturation factor, gamma	63986	6.09	8.99	9.05	2.81E-03
1434542_at	Gpt2	glutamic pyruvate transaminase (alanine aminotransferase) 2	108682	3.82	6.33	8.98	2.87E-03
1440096_at	Ecm2	extracellular matrix protein 2, female organ and adipocyte specific	407800	4.19	7.69	8.96	2.07E-03
1449073_at	FlnC	filamin C, gamma (actin binding protein 280)	68794	4.87	8.10	8.95	2.82E-03
1450199_a_at	Stab1	stabilin 1	192187	7.58	10.64	8.88	3.54E-06
1416713_at	Tppp3	tubulin polymerization-promoting protein family member 3	67971	7.05	10.10	8.73	3.76E-03
1449815_a_at	Ssbp2	single-stranded DNA binding protein 2	66970	4.95	8.18	8.72	1.23E-03
1435092_at	Ar14a	ADP-ribosylation factor-like 4A	11861	7.58	10.67	8.65	1.50E-05
1456721_at	Thsd7a	thrombospondin, type I, domain containing 7A	330267	5.60	9.16	8.64	2.52E-03
1436876_at	Rgs7bp	regulator of G-protein signalling 7 binding protein	52882	4.51	7.15	8.57	6.81E-03
1416158_at	Nr2f2	nuclear receptor subfamily 2, group F, member 2	11819	8.64	11.93	8.52	4.31E-03
1452654_at	Zdhhc2	zinc finger, DHHC domain containing 2	70546	5.07	8.19	8.52	1.34E-04
1438231_at	Foxp2	forkhead box P2	114142	2.69	5.49	8.50	2.55E-03
1434826_at	B430201A12Rik	RIKEN cDNA B430201A12 gene	329739	6.51	9.31	8.50	3.66E-04

1451658_a_at	Poir3c	polymerase (RNA) III (DNA directed) polypeptide C	74414	4.66	7.65	8.50	3.12E-03
1421319_at	Ptgfrn	prostaglandin F2 receptor negative regulator	19221	4.74	7.49	8.49	1.02E-03
1428579_at	Fmnl2	formin-like 2	71409	6.72	9.81	8.42	6.98E-04
1454158_at	Mpp7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	75739	6.74	9.90	8.41	5.71E-03
1448509_at	3110001A13Rik	RIKEN cDNA 3110001A13 gene	66540	4.24	7.42	8.28	2.11E-03
1438937_x_at	Ang	angiogenin, ribonuclease, RNase A family, 5	11727	5.74	8.69	8.18	5.90E-03
1439995_at	Nhedc2	Na+/H+ exchanger domain containing 2	97086	3.03	6.03	8.16	4.60E-03
1418770_at	Cd2	CD2 antigen	12481	5.12	8.32	8.16	9.91E-03
1426584_a_at	Sord	sorbitol dehydrogenase	20322	5.24	8.15	8.16	4.01E-03
1447602_x_at	Sulf2	sulfatase 2	72043	6.08	9.08	7.99	2.17E-03
1455697_at	---	---	---	4.40	7.07	7.89	2.10E-04
1449270_at	Plxdc2	plexin domain containing 2	67448	2.86	5.93	7.79	5.92E-03
1435090_at	Tubgcp6	tubulin, gamma complex associated protein 6	328580	2.40	5.35	7.76	7.40E-03
1450132_at	Hivep3	human immunodeficiency virus type I enhancer binding protein 3	16656	3.71	6.59	7.75	6.06E-04
1455179_at	Mpp7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	75739	5.58	9.14	7.73	4.74E-03
1437167_at	Tmod2	tropomodulin 2	50876	4.34	7.14	7.59	5.25E-03
1428020_at	Bxdc5	brix domain containing 5	70285	3.03	6.29	7.54	5.73E-03
1437279_x_at	Sdc1	syndecan 1	20969	8.56	11.27	7.51	3.02E-03
1427574_s_at	Sh3d19	SH3 domain protein D19	27059	5.18	8.29	7.50	2.54E-03
1456160_at	---	---	---	4.56	7.68	7.49	7.48E-03
1448561_at	Ncf2	neutrophil cytosolic factor 2	17970	5.69	8.48	7.46	2.00E-03
1416893_at	3110001A13Rik	RIKEN cDNA 3110001A13 gene	66540	7.12	9.46	7.42	2.12E-03
1444052_at	---	---	---	9.88	12.78	7.39	1.89E-04
1435987_x_at	1110059G02Rik	RIKEN cDNA 1110059G02 gene	68786	2.44	5.67	7.39	5.60E-03
1432498_at	1700020C07Rik	RIKEN cDNA 1700020C07 gene	75642	2.75	5.94	7.38	3.18E-03
1421002_at	Angptl2	angiopoietin-like 2	26360	3.03	5.48	7.37	1.90E-03
1418936_at	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	17133	7.19	10.02	7.37	7.60E-04
1416081_at	Smad1	MAD homolog 1 (Drosophila)	17125	5.12	7.47	7.36	7.62E-03
1422695_at	Ttyh1	tweety homolog 1 (Drosophila)	57776	3.47	6.00	7.35	6.88E-03
1442115_at	9430028L06Rik	RIKEN cDNA 9430028L06 gene	225617	7.39	10.20	7.29	5.50E-03
1448700_at	G0s2	G0/G1 switch gene 2	14373	4.32	6.45	7.28	5.23E-03
1428789_at	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	78255	4.91	8.11	7.15	4.42E-03
1453794_at	Fer1l4	fer-1-like 4 (C. elegans)	74562	2.34	5.13	7.10	6.58E-03
1436937_at	Rbms3	RNA binding motif, single stranded interacting protein	207181	4.25	6.61	7.09	4.13E-03
1429567_at	Rassf10	Ras association (RalGDS/AF-6) domain family (N-terminal) member 10	78748	4.83	7.28	7.08	1.62E-03
1450029_s_at	Itga9	integrin alpha 9	104099	7.81	10.86	7.00	1.76E-03
1453119_at	Otud1	OTU domain containing 1	71198	9.23	11.52	6.94	5.70E-03
1435936_at	Slc13a5	solute carrier family 13 (sodium-dependent citrate transporter), member 5	237831	2.56	5.23	6.86	4.44E-03
1451154_a_at	Cugbp2	CUG triplet repeat, RNA binding protein 2	14007	4.64	7.23	6.84	5.91E-04
1435728_at	Tyw3	tRNA-yW synthesizing protein 3 homolog (S. cerevisiae)	209584	3.27	5.81	6.73	7.11E-03
1429456_a_at	Poir3e	polymerase (RNA) III (DNA directed) polypeptide E	26939	5.36	7.69	6.63	6.02E-03
1423434_at	Tead1	TEA domain family member 1	21676	6.77	8.93	6.52	8.28E-03
1431326_a_at	Tmod2	tropomodulin 2	50876	5.44	7.64	6.44	4.20E-03
1435830_a_at	5430435G22Rik	RIKEN cDNA 5430435G22 gene	226421	2.83	5.86	6.39	1.19E-03
1450631_x_at	Defcr24	defensin related cryptdin 24	503491	2.92	5.58	6.31	6.03E-03
1424764_at	Sez6l	seizure related 6 homolog like	56747	4.17	6.65	6.30	4.69E-03
1432296_a_at	Itgav	integrin alpha V	16410	4.72	7.33	6.27	9.35E-03
1425329_a_at	Cyb5r3	cytochrome b5 reductase 3	109754	7.20	9.80	6.19	9.68E-03
1429560_at	Zfp422-rs1	zinc finger protein 422, related sequence 1	77652	5.26	7.90	6.16	5.50E-03
1429238_a_at	Ogfod2	2-oxoglutarate and iron-dependent oxygenase domain containing 2	66627	2.91	5.64	6.14	9.75E-03
1437058_at	Megf6	multiple EGF-like-domains 6	230971	6.56	9.32	5.95	4.95E-04
1424382_at	Rcn3	reticulocalbin 3, EF-hand calcium binding domain	52377	6.20	8.91	5.92	1.61E-04
1448154_at	Ndrp2	N-myc downstream regulated gene 2	29811	7.08	9.72	5.89	1.22E-03
1451456_at	6430706D22Rik	RIKEN cDNA 6430706D22 gene	381280	5.40	8.02	5.83	5.56E-03
1434930_at	Tpcn1	two pore channel 1	252972	9.49	12.21	5.67	1.43E-03
1424768_at	Cald1	caldesmon 1	109624	7.30	9.57	5.66	3.30E-04
1452358_at	Rai2	retinoic acid induced 2	24004	5.86	7.62	5.66	5.38E-03
1455630_at	Dnalcl	dynein, axonemal, light chain 1	105000	4.88	6.79	5.62	6.36E-03
1418701_at	Comt1	catechol-O-methyltransferase 1	12846	5.16	8.01	5.58	2.99E-03
1429028_at	Dock11	dedicator of cytokinesis 11	75974	4.69	6.97	5.57	4.12E-03
1426467_s_at	0610037L13Rik	RIKEN cDNA 0610037L13 gene	74098	4.22	6.48	5.45	1.19E-03
1423627_at	Nqo1	NAD(P)H dehydrogenase, quinone 1	18104	7.47	9.48	5.26	3.85E-03
1423878_at	Gypc	glycophorin C	71683	6.31	8.60	5.25	4.17E-04
1417069_a_at	Gmfb	glia maturation factor, beta	63985	6.46	8.35	5.22	7.63E-03
1419405_at	Nmb	neuromedin B	68039	4.75	7.06	5.22	8.45E-04
1416914_s_at	Mtvr2	mammary tumor virus receptor 2	17826	4.44	6.86	5.18	1.91E-03
1433655_at	Rnf141	ring finger protein 141	67150	5.57	7.72	5.16	3.70E-03
1423499_at	Sncaip	synuclein, alpha interacting protein (synphilin)	67847	6.70	8.88	5.13	2.74E-03
1417148_at	Pdgfrb	platelet derived growth factor receptor, beta polypeptide	18596	3.33	5.32	5.10	3.91E-03
1426374_at	2410166I05Rik	RIKEN cDNA 2410166I05 gene	76824	5.47	7.88	5.09	5.49E-04
1422034_a_at	Palm	paralectin	18483	6.47	8.55	5.07	6.04E-03
1416194_at	Cyp4b1	cytochrome P450, family 4, subfamily b, polypeptide 1	13120	9.25	11.32	5.05	9.31E-04
1455607_at	Rspo3	R-spondin 3 homolog (Xenopus laevis)	72780	3.43	5.83	5.02	2.22E-03
1438232_at	Foxp2	forkhead box P2	114142	4.39	7.24	5.00	4.77E-03
1450637_a_at	Aebp1	AE binding protein 1	11568	8.42	11.11	5.00	4.12E-03
1421967_at	B4galt5	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5	56336	5.88	8.04	4.98	1.91E-03
1439316_at	Rbm39	RNA binding motif protein 39	170791	3.85	5.96	4.91	9.09E-03

1451008_at	St8sia3	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3	20451	3.19	5.54	4.90	5.33E-03
1454699_at	Sesn1	sestrin 1	140742	4.62	6.53	4.85	2.88E-03
1434513_at	Atp13a3	ATPase type 13A3	224088	6.53	8.54	4.84	7.82E-04
1433490_s_at	Epb4.1l2	erythrocyte protein band 4.1-like 2	13822	8.42	10.58	4.78	2.41E-03
1419126_at	Hoxd9	homeo box D9	15438	8.00	10.14	4.77	1.09E-03
1454724_x_at	5730446C15Rik	RIKEN cDNA 5730446C15 gene	226016	7.62	9.75	4.76	3.86E-03
1452415_at	Actn1	actinin, alpha 1	109711	4.88	6.98	4.74	9.28E-03
1421442_at	Flt4	FMS-like tyrosine kinase 4	14257	11.15	13.45	4.73	1.99E-04
1434011_a_at	Ints5	integrator complex subunit 5	109077	7.23	9.39	4.70	2.73E-03
1434307_at	Tmem64	transmembrane protein 64	100201	5.35	7.45	4.69	4.60E-03
1441916_s_at	Odf3	outer dense fiber of sperm tails 3	69287	2.75	5.08	4.61	7.21E-03
1452411_at	Lrrc1	leucine rich repeat containing 1	214345	5.17	7.06	4.60	4.86E-03
1426342_at	Stt3b	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)	68292	8.98	11.12	4.59	1.36E-03
1448613_at	Ecm1	extracellular matrix protein 1	13601	6.20	7.91	4.53	9.03E-03
1429796_at	Kalrn	kalirin, RhoGEF kinase	545156	5.96	7.52	4.52	8.83E-03
1420228_at	---	---	---	3.27	5.40	4.51	6.55E-03
1422616_s_at	Wdr54	WD repeat domain 54	75659	3.48	5.34	4.50	7.79E-03
1426851_a_at	Nov	nephroblastoma overexpressed gene	18133	7.02	9.11	4.48	2.47E-03
1427201_at	Mustn1	musculoskeletal, embryonic nuclear protein 1	66175	6.32	8.24	4.42	4.67E-03
1426290_at	Dimt1	DIM1 dimethyladenosine transferase 1-like (S. cerevisiae)	66254	4.34	6.34	4.21	4.10E-03
1422853_at	Shc1	src homology 2 domain-containing transforming protein C1	20416	5.88	7.91	4.16	4.83E-03
1448134_at	X99384	cDNA sequence X99384	27355	8.42	10.31	4.13	5.09E-03
1439251_at	100042616	predicted gene, 100042616	100042616	4.85	6.80	4.09	1.03E-03
1416414_at	Emilin1	elastin microfibril interfacier 1	100952	5.48	7.27	4.08	7.59E-03
1418232_s_at	Lims1	LIM and senescent cell antigen-like domains 1	110829	6.85	9.11	4.07	1.23E-03
1420919_at	Sgk3	serum/glucocorticoid regulated kinase 3	170755	5.78	7.86	4.04	3.12E-03
1421832_at	Twsg1	twisted gastrulation homolog 1 (Drosophila)	65960	7.86	10.26	4.02	8.17E-03
1419546_at	Atp6v1c1	ATPase, H+ transporting, lysosomal V1 subunit C1	66335	5.91	8.24	3.97	9.72E-03
1418253_a_at	Hspa4l	heat shock protein 4 like	18415	6.70	8.36	3.94	8.26E-03
1429001_at	Pir	pirin	69656	4.95	6.75	3.94	3.76E-03
1422186_s_at	Cyb5r3	cytochrome b5 reductase 3	109754	9.92	11.60	3.94	2.32E-03
1456028_x_at	Marcks	Myristoylated alanine rich protein kinase C substrate	17118	9.94	11.65	3.93	1.58E-03
1433775_at	C77080	expressed sequence C77080	97130	6.47	8.19	3.93	3.36E-03
1439978_at	Srcap	Snf2-related CREBBP activator protein	546001	6.33	7.98	3.92	9.71E-03
1438312_s_at	Ltbp3	latent transforming growth factor beta binding protein 3	16998	8.85	10.50	3.88	6.81E-03
1426708_at	Antxr2	anthrax toxin receptor 2	71914	5.80	7.71	3.86	3.93E-03
1426427_at	Till1	tubulin tyrosine ligase-like 1	319953	4.81	6.68	3.86	8.74E-04
1430547_s_at	Cryz1l	crystallin, zeta (quinone reductase)-like 1	66609	6.26	7.95	3.82	3.98E-03
1424018_at	Hint1	histidine triad nucleotide binding protein 1	15254	7.87	9.42	3.79	7.72E-03
1418901_at	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta	12608	7.17	9.08	3.77	3.84E-03
1422854_at	Shc1	src homology 2 domain-containing transforming protein C1	20416	8.12	9.92	3.76	7.27E-03
1425267_a_at	Pear1	platelet endothelial aggregation receptor 1 ectonucleotide	73182	8.04	10.15	3.72	3.15E-04
1427302_at	Enpp3	pyrophosphatase/phosphodiesterase 3	209558	7.84	9.83	3.66	6.54E-03
1452759_s_at	Ppfibp1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	67533	9.89	11.50	3.66	2.47E-03
1446452_at	---	---	---	3.59	5.48	3.65	4.06E-03
1443299_at	Pdlim3	PDZ and LIM domain 3	53318	3.36	5.22	3.58	1.37E-03
1418371_at	Dynll2	dynein light chain LC8-type 2	68097	5.36	7.08	3.56	2.23E-03
1460387_a_at	Siae	sialic acid acetyltransferase	22619	4.22	5.90	3.56	3.97E-03
1459909_at	Nfix	nuclear factor I/X	18032	6.44	8.16	3.55	1.12E-03
1440989_at	Mrpl35	mitochondrial ribosomal protein L35	66223	4.12	5.84	3.55	3.90E-03
1428851_at	1300014I06Rik	RIKEN cDNA 1300014I06 gene	66895	8.78	10.41	3.54	2.85E-03
1451629_at	Lbh	limb-bud and heart	77889	7.67	9.37	3.54	4.96E-04
1450424_a_at	Il18bp	interleukin 18 binding protein	16068	4.81	6.57	3.51	5.78E-03
1459450_at	---	---	---	4.44	6.73	3.50	9.74E-03
1434273_at	Fam174b	family with sequence similarity 174, member B	100038347	8.62	10.26	3.48	2.13E-03
1450698_at	Dusp2	dual specificity phosphatase 2	13537	4.37	6.52	3.44	3.74E-03
1434104_at	Slc35e1	solute carrier family 35, member E1	270066	6.92	8.50	3.42	7.12E-03
1423824_at	Gpr177	G protein-coupled receptor 177	68151	4.51	6.28	3.42	9.49E-03
1426246_at	Pros1	protein S (alpha)	19128	9.95	11.73	3.40	4.93E-03
1446586_at	8030463A06Rik	RIKEN cDNA 8030463A06 gene	414083	2.91	5.03	3.36	5.36E-03
1450036_at	Sgk3	serum/glucocorticoid regulated kinase 3	170755	7.43	9.12	3.35	3.69E-03
1417810_a_at	Pacsin2	protein kinase C and casein kinase substrate in neurons 2	23970	9.87	11.51	3.34	2.95E-03
1427742_a_at	Klf6	Kruppel-like factor 6	23849	6.78	8.34	3.34	8.14E-03
1454824_s_at	Mtus1	mitochondrial tumor suppressor 1	102103	9.82	11.33	3.32	4.60E-03
1422502_at	Parp1	poly (ADP-ribose) polymerase family, member 1	11545	4.20	6.01	3.29	2.63E-03
1416982_at	Foxo1	forkhead box O1	56458	6.81	8.38	3.27	6.67E-03
1455257_at	Itgb3	integrin beta 3	16416	8.92	10.44	3.25	1.96E-03
1435282_at	Gm967	gene model 967, (NCBI)	381217	5.16	6.97	3.20	1.93E-03
1448641_at	Mbtd1	mbt domain containing 1	103537	4.92	6.38	3.15	3.15E-03
1455180_at	Gcom1	GRINL1A complex locus	102371	6.62	8.17	3.14	2.84E-03
1453267_at	Zfx3	zinc finger homeobox 3	11906	8.90	10.20	3.13	2.38E-03
1423575_a_at	Wbscr22	Williams Beuren syndrome chromosome region 22	66138	5.91	7.24	3.04	5.37E-03
1451876_a_at	Trp63	transformation related protein 63	22061	3.75	5.06	3.03	7.93E-03
1433491_at	Epb4.1l2	erythrocyte protein band 4.1-like 2	13822	9.07	10.83	3.03	4.73E-03
1439266_a_at	Poir3k	polymerase (RNA) III (DNA directed) polypeptide K	67005	6.67	8.04	3.00	8.94E-03
1420854_at	Eln	elastin	13717	7.07	8.59	3.00	6.77E-05

1419573_a_at	Lgals1	lectin, galactose binding, soluble 1	16852	6.89	8.19	3.00	3.63E-03
1454780_at	Gaint14	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 4	233733	7.71	9.06	2.97	1.08E-03
1456087_at	Nfia	nuclear factor I/A	18027	7.09	8.39	2.97	4.27E-03
1434657_at	Gls	glutaminase	98298	7.80	9.42	2.96	2.14E-03
1424562_a_at	Slc25a4	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4	11739	9.09	10.37	2.94	3.43E-03
1416224_at	Zbtb17	zinc finger and BTB domain containing 17	22642	4.77	6.19	2.89	7.40E-03
1424027_at	Pxn	paxillin	19303	8.00	9.64	2.87	5.88E-03
1431375_s_at	Parva	parvin, alpha	57342	7.88	9.42	2.86	1.44E-03
1417423_at	Grina	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	66168	7.38	9.29	2.82	8.77E-03
1454312_at	676575	predicted gene, 676575	677325	5.26	6.98	2.81	8.76E-04
1439298_at	---	---	---	5.37	6.71	2.81	6.31E-04
1424529_s_at	Cgref1	cell growth regulator with EF hand domain 1	68567	5.72	7.12	2.80	4.87E-03
1423592_at	Rock2	Rho-associated coiled-coil containing protein kinase 2	19878	7.19	8.50	2.79	2.69E-03
1453556_x_at	Cd99	CD99 antigen	673094	6.16	7.44	2.76	1.07E-03
1455564_at	Bcr	breakpoint cluster region	110279	9.27	10.80	2.76	5.58E-03
1448259_at	Fstl1	folliculin-like 1	14314	10.34	11.96	2.75	6.33E-04
1419445_s_at	Sap18	Sin3-associated polypeptide 18	20220	7.11	8.40	2.75	2.46E-03
1416600_a_at	Rcan1	regulator of calcineurin 1	54720	9.02	10.14	2.74	3.45E-03
1448388_a_at	1110002B05Rik	RIKEN cDNA 1110002B05 gene	104725	9.59	10.96	2.74	9.21E-04
1449089_at	Nrip1	nuclear receptor interacting protein 1	268903	6.85	8.45	2.74	2.63E-03
1416343_a_at	Lamp2	lysosomal-associated membrane protein 2	16784	8.21	9.45	2.72	7.20E-03
1416526_a_at	Park7	Parkinson disease (autosomal recessive, early onset) 7	57320	8.15	9.39	2.69	5.87E-03
1426499_at	Sh3glb2	SH3-domain GRB2-like endophilin B2	227700	5.84	7.17	2.67	7.13E-03
1427929_a_at	Pdxk	pyridoxal (pyridoxine, vitamin B6) kinase	216134	6.77	8.19	2.67	8.31E-03
1450924_at	Hdgfrp3	hepatoma-derived growth factor, related protein 3	29877	6.05	7.61	2.67	5.05E-03
1452594_at	Dusp11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	72102	7.48	8.86	2.65	9.53E-03
1433832_at	Unc84b	unc-84 homolog B (C. elegans)	223697	10.66	11.96	2.63	6.95E-04
1451177_at	Dnajb4	DnaJ (Hsp40) homolog, subfamily B, member 4	67035	8.58	9.87	2.62	4.30E-04
1444036_at	---	---	---	4.14	5.72	2.61	1.23E-03
1436502_at	Mtus1	mitochondrial tumor suppressor 1	102103	7.57	8.92	2.61	1.15E-03
1436364_x_at	Nfix	nuclear factor I/X	18032	7.52	8.73	2.60	6.25E-03
1417298_at	Ebpl	emopamil binding protein-like	68177	5.47	6.79	2.59	7.25E-04
1416978_at	Fcgrt	Fc receptor, IgG, alpha chain transporter	14132	8.94	10.21	2.55	1.18E-03
1421268_at	Ugcg	UDP-glucose ceramide glucosyltransferase	22234	6.57	7.87	2.52	6.58E-03
1425517_s_at	Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase	108155	7.72	8.88	2.52	9.90E-03
1416243_a_at	Rpl35	ribosomal protein L35	66489	10.79	11.92	2.49	2.01E-03
1437003_at	---	---	---	7.51	8.75	2.46	8.67E-03
1424149_at	Nsmce2	non-SMC element 2 homolog (MMS21, S. cerevisiae)	68501	6.48	7.62	2.42	2.68E-03
1446953_at	---	---	---	4.78	6.35	2.41	7.15E-03
1425903_at	Sema6a	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	20358	8.74	10.14	2.38	2.32E-03
1454161_s_at	0610007P14Rik	RIKEN cDNA 0610007P14 gene	58520	5.05	6.20	2.37	4.23E-03
1423911_at	Ppp2r5a	protein phosphatase 2, regulatory subunit B (B56), alpha isoform	9.01	10.56	2.36	6.68E-03	
1417625_s_at	Cxcr7	chemokine (C-X-C motif) receptor 7	12778	11.63	13.08	2.35	4.29E-03
1428648_at	Cand1	cullin associated and neddylation disassociated 1	71902	6.60	7.60	2.30	6.41E-03
1424456_at	Pvrl2	poliovirus receptor-related 2	19294	9.42	10.42	2.26	3.49E-03
1420142_s_at	Pa2g4	proliferation-associated 2G4	18813	10.47	11.48	2.24	5.04E-04
1423218_a_at	Mrpl49	mitochondrial ribosomal protein L49	18120	5.97	7.05	2.24	5.76E-03
1448286_at	Hsd17b10	hydroxysteroid (17-beta) dehydrogenase 10	15108	6.10	7.07	2.24	9.30E-03
1450054_at	Add1	adducin 1 (alpha)	11518	9.67	10.85	2.23	2.97E-04
1415800_at	Gja1	gap junction protein, alpha 1	14609	11.23	12.49	2.22	1.19E-04
1435753_a_at	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	98415	8.71	9.67	2.16	6.65E-03
1430129_a_at	Commd8	COMM domain containing 8	27784	7.03	8.04	2.16	6.99E-03
1418429_at	Kif5b	kinesin family member 5B	16573	5.65	6.74	2.15	4.50E-03
1420476_a_at	100043064 /// Nap111	predicted gene, 100043064 /// nucleosome assembly protein 1-like 1	9.32	10.34	2.15	2.70E-03	
1418892_at	Rhoj	ras homolog gene family, member J	80837	10.40	11.75	2.11	7.17E-03
1415822_at	Scd2	stearoyl-Coenzyme A desaturase 2	20250	8.37	9.43	2.06	8.12E-03
1419089_at	Timp3	tissue inhibitor of metalloproteinase 3	21859	11.50	12.69	2.04	1.15E-03
1449256_a_at	Rab11a	RAB11a, member RAS oncogene family	53869	9.77	11.08	2.03	7.65E-03
1452571_at	Tuba-rs1	tubulin alpha, related sequence 1	26947	7.44	8.47	2.02	3.91E-03
1419088_at	Timp3	tissue inhibitor of metalloproteinase 3	21859	10.68	11.65	2.01	4.24E-03
1427240_at	Dock6	dedicator of cytokinesis 6	319899	7.99	9.04	2.00	7.02E-03

Online Table II. Gene microarray analysis of ex vivo isolated mouse intestinal blood vascular endothelial cells vs. lymphatic endothelial cells revealed genes that are specifically expressed by blood vessel endothelium. Complete list of significantly differentially expressed genes (\log_2 ratio ≥ 2 , p-value ≤ 0.01 , \log_2 signal ≥ 5 in BEC group).

Probe ID	Gene Symbol	Gene Title	Entrez Gene ID	median log ₂ signal contBEC	median log ₂ signal contLEC	fold change contBEC vs. contLEC	p-value
1438651_a_at	Aplnr	apelin receptor	23796	12.41	0.83	3385.36	6.78E-08
1426906_at	Ifi203	interferon activated gene 203	15950	10.11	-0.87	1427.83	7.59E-06
1448710_at	Cxcr4	chemokine (C-X-C motif) receptor 4	12767	10.88	1.48	1375.91	3.37E-04
1418084_at	Nrp1	neuropilin 1	18186	11.66	1.62	1265.75	8.64E-04
1435361_at	Sema3g	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G	218877	10.96	1.38	972.84	2.83E-04
1450939_at	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	12495	11.75	1.32	716.30	1.17E-04
1439766_x_at	Vegfc	vascular endothelial growth factor C	22341	9.84	-0.95	660.36	8.42E-04
1440926_at	Flt1	FMS-like tyrosine kinase 1	14254	11.69	3.68	622.26	4.63E-04
1415885_at	Chgb	chromogranin B	12653	11.71	1.77	583.26	8.93E-03
1419300_at	Flt1	FMS-like tyrosine kinase 1	14254	9.85	1.11	491.58	6.18E-07
1418849_x_at	Aqp7	aquaporin 7	11832	11.38	3.18	458.90	1.04E-03
1449408_at	Jam2	junction adhesion molecule 2	67374	10.59	1.31	423.43	1.91E-04
1455660_at	Csf2rb	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	12983	8.15	0.06	352.04	1.03E-05
1449048_s_at	Rab4a	RAB4A, member RAS oncogene family	19341	8.58	0.50	331.25	7.22E-05
1421326_at	Csf2rb	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	12983	8.13	0.18	285.97	7.30E-06
1431416_a_at	Jam2	junction adhesion molecule 2	67374	8.97	1.03	277.93	4.51E-05
1456793_at	Cyt11	cytokine like 1	231162	8.87	0.85	255.63	6.67E-06
1423037_at	Aplnr	apelin receptor	23796	10.87	3.96	249.90	2.73E-04
1448949_at	Car4	carbonic anhydrase 4	12351	12.81	6.81	246.76	6.54E-03
1449280_at	Esm1	endothelial cell-specific molecule 1	71690	9.71	2.61	246.64	4.69E-04
1428867_at	Exoc3l2	exocyst complex component 3-like 2	74463	11.29	4.15	236.93	8.28E-04
1448944_at	Nrp1	neuropilin 1	18186	11.98	5.59	232.62	3.97E-03
1421425_a_at	Rcan2	regulator of calcineurin 2	53901	7.88	0.08	224.24	3.11E-06
1453586_at	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	12495	9.24	2.19	222.46	7.71E-05
1457254_x_at	6330442E10Rik	RIKEN cDNA 6330442E10 gene	268567	9.02	1.18	212.36	4.31E-05
1452231_x_at	Ifi203	interferon activated gene 203	15950	9.92	3.18	205.10	2.59E-04
1435386_at	Vwf	Von Willebrand factor homolog	22371	10.87	3.83	202.23	8.62E-04
1447643_x_at	Snai2	snail homolog 2 (Drosophila)	20583	10.50	3.33	195.92	4.14E-04
1438511_a_at	1190002H23Rik	RIKEN cDNA 1190002H23 gene	66214	10.47	2.16	191.14	4.22E-04
1434372_at	AW112010	expressed sequence AW112010	107350	9.52	2.92	180.64	4.70E-04
1418944_at	Cysl1r1	cysteinyl leukotriene receptor 1	58861	8.83	1.07	178.95	4.98E-03
1450884_at	Cd36	CD36 antigen	12491	10.32	3.54	178.45	1.37E-04
1418922_at	Cadm3	cell adhesion molecule 3	94332	8.13	1.27	178.34	7.41E-05
1423614_at	Lrrc8c	leucine rich repeat containing 8 family, member C	100604	10.69	2.23	177.38	2.29E-03
1450639_at	Slc28a2	solute carrier family 28 (sodium-coupled nucleoside transporter), member 2	269346	8.26	1.01	173.00	5.52E-04
1426047_a_at	Ptprr	protein tyrosine phosphatase, receptor type, R	19279	9.92	2.05	171.08	5.54E-04
1438081_at	Mcc	mutated in colorectal cancers	328949	9.75	1.41	162.21	2.69E-03
1424408_at	Lims2	LIM and senescent cell antigen like domains 2	225341	9.93	2.61	159.94	2.48E-04
1425214_at	P2ry6	pyrimidinergic receptor P2Y, G-protein coupled, 6	233571	7.90	1.61	140.15	6.61E-04
1422866_at	Col13a1	collagen, type XIII, alpha 1	12817	9.09	2.14	135.80	7.21E-04
1435123_at	Efr3b	EFR3 homolog B (S. cerevisiae)	668212	8.50	1.97	124.88	3.79E-05
1455377_at	Tll17	tubulin tyrosine ligase-like family, member 7	70892	7.19	0.29	124.78	9.60E-04
1456521_at	---	---	---	7.86	1.91	122.62	3.26E-03
1438068_at	---	---	---	6.51	-0.76	122.02	1.26E-03
1416114_at	Sparcl1	SPARC-like 1 (mast9, hevjin)	13602	10.33	2.64	121.47	5.89E-04
1448961_at	Plscr2	phospholipid scramblase 2	18828	9.89	2.15	120.72	1.81E-04
1454037_a_at	Flt1	FMS-like tyrosine kinase 1	14254	11.45	4.98	118.72	2.23E-04
1421571_a_at	Ly6c1 /// Ly6c2	Lymphocyte antigen 6C	17067	12.59	5.76	117.58	1.05E-05
1425809_at	Fabp4	fatty acid binding protein 4, adipocyte	11770	9.78	3.73	115.41	3.43E-03
1448507_at	Efh1	EF hand domain containing 1	98363	8.31	3.51	110.54	9.23E-03
1428357_at	2610019F03Rik	RIKEN cDNA 2610019F03 gene	72148	11.04	5.12	110.54	1.93E-03
1429177_x_at	Sox17	SRY-box containing gene 17	20671	10.20	3.90	109.47	2.32E-04
1424737_at	Thrsp	thyroid hormone responsive SPOT14 homolog (Rattus)	21835	11.06	3.72	105.42	8.34E-05
1417963_at	Pltp	phospholipid transfer protein	18830	11.06	5.54	99.32	8.35E-04
1457434_s_at	Ptpla	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member a	30963	6.83	0.99	97.81	2.28E-03
1447788_s_at	Tspyl3	TSPY-like 3	241732	7.41	1.95	97.59	9.29E-03
1453070_at	Pcdh17	protocadherin 17	219228	8.66	3.43	96.05	2.20E-03
1435595_at	1810011O10Rik	RIKEN cDNA 1810011O10 gene	69068	9.90	2.39	94.15	7.34E-04
1423166_at	Cd36	CD36 antigen	12491	11.31	4.42	93.61	6.52E-05
1460011_at	Cyp26b1	cytochrome P450, family 26, subfamily b, polypeptide 1	232174	9.18	3.28	93.30	1.09E-04
1451756_at	Flt1	FMS-like tyrosine kinase 1	14254	10.73	4.61	90.80	2.87E-05
1442698_at	---	---	---	6.79	0.73	90.35	1.07E-04
1436895_at	Centd1	centaurin, delta 1	212285	8.56	2.86	89.91	9.99E-03
1457198_at	Nrp1	neuropilin 1	18186	8.08	1.80	88.49	1.35E-04
1449011_at	Slc12a7	solute carrier family 12, member 7	20499	8.77	1.88	88.06	5.29E-04
1417751_at	Stk10	serine/threonine kinase 10	20868	8.61	1.01	87.80	9.08E-03
1448299_at	Slc1a1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1	20510	7.54	1.38	84.04	1.01E-03
1449937_at	Pp11r	placental protein 11 related	19011	8.20	0.85	83.74	2.18E-03
1436568_at	Jam2	junction adhesion molecule 2	67374	9.85	3.55	83.58	1.04E-05
1439084_at	Cxcl12	chemokine (C-X-C motif) ligand 12	20315	10.33	3.75	83.02	1.21E-04

1419288_at	Jam2	junction adhesion molecule 2	67374	8.89	3.25	82.02	1.41E-04
1442033_at	C1qtnf9	C1q and tumor necrosis factor related protein 9	239126	9.84	2.95	81.78	3.82E-04
1420941_at	Rgs5	regulator of G-protein signaling 5	19737	8.07	2.20	81.07	1.90E-03
1425253_a_at	Madcam1	mucosal vascular addressin cell adhesion molecule 1	17123	6.28	0.57	79.04	7.57E-05
1448943_at	Nrp1	neuropilin 1	18186	11.80	5.52	76.45	6.57E-04
1450414_at	Pdgfb	platelet derived growth factor, B polypeptide	18591	8.32	2.77	74.81	4.35E-03
1437661_at	AU021092	expressed sequence AU021092	239691	7.22	1.27	74.55	7.95E-06
1417680_at	Kcna5	potassium voltage-gated channel, shaker-related subfamily, member 5	16493	9.31	2.58	73.90	2.13E-04
1429765_at	1500005K14Rik	RIKEN cDNA 1500005K14 gene	76566	8.39	2.27	69.22	1.28E-06
1449146_at	Notch4	Notch gene homolog 4 (Drosophila)	18132	9.81	2.66	67.33	6.23E-03
1416080_at	Adam15	a disintegrin and metallopeptidase domain 15 (metargidin)	11490	8.24	2.73	67.02	1.40E-04
1451174_at	Lrrc33	leucine rich repeat containing 33	224109	7.89	2.80	66.28	3.87E-03
1418094_s_at	Car4	carbonic anhydrase 4	12351	11.20	5.19	65.05	5.19E-05
1454443_at	483341110Rik	RIKEN cDNA 483341110 gene	74583	8.86	3.90	64.21	1.92E-03
1434931_at	Neo1	neogenin	18007	7.85	2.59	64.05	2.91E-03
1452106_at	Npnt	nephronectin	114249	5.48	-0.42	63.53	9.01E-03
1418003_at	1190002H23Rik	RIKEN cDNA 1190002H23 gene	66214	9.55	2.80	62.25	1.68E-03
1438785_at	Enpp6	ectonucleotide pyrophosphatase/phosphodiesterase 6	320981	7.66	1.83	61.55	1.25E-04
1421009_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	8.93	2.35	61.36	5.07E-03
1431805_a_at	Rhpn2	rhophilin, Rho GTPase binding protein 2	52428	6.20	0.01	61.12	7.54E-03
1423353_at	Crispld1	cysteine-rich secretory protein LCCL domain containing 1	83691	6.94	0.87	59.95	1.23E-05
1434140_at	Mcf2l	mcf.2 transforming sequence-like	17207	10.31	3.06	59.47	5.22E-03
1419757_at	Pitpnm2	phosphatidylinositol transfer protein, membrane-associated 2	19679	8.15	1.27	59.03	9.56E-03
1438237_at	Rex2	reduced expression 2	19715	5.12	-0.43	58.74	2.40E-03
1417185_at	Ly6a	lymphocyte antigen 6 complex, locus A	110454	12.58	6.37	57.84	1.37E-05
1453782_at	3021401C12Rik	RIKEN cDNA 3021401C12 gene	70678	6.76	1.68	55.33	3.16E-04
1435564_at	C230078M08Rik	RIKEN cDNA C230078M08 gene	319749	10.52	4.09	55.29	6.72E-04
1418652_at	Cxcl9	chemokine (C-X-C motif) ligand 9	17329	7.65	1.79	55.29	2.93E-03
1450224_at	Col4a3	collagen, type IV, alpha 3	12828	7.52	1.71	55.01	1.40E-03
1457386_at	---	---	---	6.98	1.62	54.92	1.86E-03
1438411_at	Gpr81	G protein-coupled receptor 81	243270	7.57	2.25	54.07	5.10E-03
1417534_at	Itgb5	integrin beta 5	16419	7.09	1.39	53.99	2.09E-03
1417333_at	Rasa4	RAS p21 protein activator 4	54153	6.23	0.82	52.63	5.96E-04
1432601_at	Mll5	myeloid/lymphoid or mixed-lineage leukemia 5	69188	5.08	0.32	52.62	1.32E-03
1449906_at	Selp	selectin, platelet	20344	5.83	0.40	52.17	2.68E-06
1449360_at	Csf2rb2	colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage)	12984	7.39	1.48	52.07	5.51E-03
1435043_at	Plcb1	phospholipase C, beta 1	18795	8.86	3.18	52.00	4.23E-03
1425008_a_at	Ifi203	interferon activated gene 203	15950	10.76	4.98	51.10	3.01E-03
1440156_s_at	---	---	99101	7.36	2.65	50.83	2.64E-03
1455034_at	Nr4a2	nuclear receptor subfamily 4, group A, member 2	---	6.74	2.14	50.59	1.20E-03
1421129_a_at	Atp2a3	ATPase, Ca++ transporting, ubiquitous	53313	8.23	2.15	49.38	4.71E-03
1423503_at	Jam3	junction adhesion molecule 3	83964	7.90	3.74	49.03	5.67E-03
1418334_at	Dbf4	DBF4 homolog (S. cerevisiae)	27214	5.58	0.23	48.08	9.54E-05
1422217_a_at	Cyp1a1	cytochrome P450, family 1, subfamily a, polypeptide 1	13076	6.98	1.25	48.00	4.16E-03
1448024_at	Npr3	natriuretic peptide receptor 3	18162	6.69	1.54	47.92	1.76E-03
1426858_at	Inhbb	inhibin beta-B	16324	8.67	2.69	47.22	4.76E-05
1450928_at	LOC100045546	similar to Id4	100045546	5.53	0.03	47.21	9.02E-03
1420914_at	Slc02a1	Solute carrier organic anion transporter family, member 2a1	24059	8.39	3.92	46.76	6.68E-03
1458700_at	---	---	---	6.96	1.89	45.30	1.59E-03
1420401_a_at	Ramp3	receptor (calcitonin) activity modifying protein 3	56089	7.74	3.03	45.12	1.72E-03
1418289_at	Nes	nestin	18008	8.73	3.96	44.38	2.26E-04
1417567_at	Ctnnbip1	catenin beta interacting protein 1	67087	5.89	1.15	44.11	2.86E-03
1455820_x_at	Scarb1	scavenger receptor class B, member 1	20778	10.29	4.43	43.83	1.97E-05
1452474_a_at	Art3	ADP-ribosyltransferase 3	109979	5.95	1.84	43.44	6.29E-03
1451038_at	Aplin	apelin	30878	7.55	3.42	43.15	7.68E-03
1435749_at	Gda	guanine deaminase	14544	8.93	3.24	42.60	9.33E-03
1437378_x_at	Scarb1	scavenger receptor class B, member 1	20778	10.12	4.09	41.62	3.51E-04
1438055_at	Rarres1	retinoic acid receptor responder (tazarotene induced) 1	109222	5.00	0.51	41.21	4.34E-04
1429830_a_at	Cd59a	CD59a antigen	12509	5.46	0.89	40.91	3.76E-03
1456633_at	Trpm3	transient receptor potential cation channel, subfamily M, member 3	226025	5.66	0.61	40.80	3.23E-03
1417023_a_at	Fabp4	fatty acid binding protein 4, adipocyte	11770	13.52	7.78	40.44	1.16E-05
1426152_a_at	Kitl	kit ligand	17311	8.75	3.00	39.96	2.29E-04
1451567_a_at	Ifi203	interferon activated gene 203	15950	8.16	2.29	39.48	3.89E-04
1460733_at	Unc119b	unc-119 homolog B (C. elegans)	106840	7.57	2.05	39.44	1.73E-04
1452348_s_at	Mnda	myeloid cell nuclear differentiation antigen	381308	8.41	2.35	38.90	6.92E-04
1435132_at	Disp1	dispatched homolog 1 (Drosophila)	68897	6.31	0.93	38.19	5.62E-03
1434510_at	Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	23972	7.40	3.02	38.02	7.26E-03
1449434_at	Car3	carbonic anhydrase 3	12350	9.71	4.44	37.65	5.81E-05
1419467_at	Clec14a	C-type lectin domain family 14, member a	66864	9.65	4.58	37.31	7.22E-05
1442187_at	Bdkrb2	Bradykinin receptor, beta 2	12062	9.04	3.78	37.20	7.60E-04
1438730_at	BC028801	cDNA sequence BC028801	408054	7.30	2.48	36.91	1.08E-03
1430391_a_at	St8sia4	ST8 alpha-N-acetylneuraminidase alpha-2,8-sialyltransferase 4	20452	10.81	5.03	36.81	3.70E-04
1428899_at	Tmem182	transmembrane protein 182	381339	8.63	3.25	36.70	7.16E-06
1420942_s_at	Rgs5	regulator of G-protein signaling 5	19737	7.76	1.68	36.64	4.50E-03
1440355_at	Kctd12b	potassium channel tetramerisation domain containing 12b	207474	8.71	3.81	36.24	1.76E-04
1456263_at	Notch4	Notch gene homolog 4 (Drosophila)	18132	9.07	3.75	35.71	7.98E-06

1455587_at	Fam167b	family with sequence similarity 167, member B	230766	7.83	2.73	35.41	3.35E-03
1439275_s_at	9530010C24Rik	RIKEN cDNA 9530010C24 gene	109279	5.82	0.53	35.28	1.98E-03
1452294_at	Pcdh1	protocadherin 1	75599	7.29	3.29	35.23	7.09E-03
1428794_at	Specc1	sperm antigen with calponin homology and coiled-coil domains 1	432572	7.96	2.64	35.23	3.89E-03
1427512_a_at	Lama3	laminin, alpha 3	16774	9.12	4.14	34.82	3.35E-04
1460465_at	A930038C07Rik	RIKEN cDNA A930038C07 gene	68169	5.24	0.50	34.72	5.84E-03
1442368_at	Kctd12b	potassium channel tetramerisation domain containing 12b	207474	9.18	4.44	34.38	6.22E-05
1429896_at	5830408B19Rik	RIKEN cDNA 5830408B19 gene	74756	7.16	1.00	33.69	2.36E-03
1425781_a_at	Plcb1	phospholipase C, beta 1	18795	10.53	4.22	33.65	5.57E-03
1451415_at	1810011O10Rik	RIKEN cDNA 1810011O10 gene	69068	11.75	6.07	33.63	2.13E-03
1437689_x_at	Clu	clusterin	12759	10.76	5.32	32.93	1.05E-03
1423352_at	Crispld1	cysteine-rich secretory protein LCCL domain containing 1	83691	7.35	3.08	32.57	1.98E-03
1418872_at	Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	18669	5.76	0.99	32.31	2.97E-03
1416050_a_at	Scarb1	scavenger receptor class B, member 1	20778	10.04	4.83	32.23	1.01E-05
1460601_at	Myrip	myosin VIIA and Rab interacting protein	245049	10.05	4.40	31.46	2.88E-04
1434802_s_at	Ntf3	neurotrophin 3	18205	7.09	1.76	31.11	3.07E-03
1454849_x_at	Clu	clusterin	12759	11.48	6.09	31.10	1.27E-03
1460476_s_at	1200015N20Rik	RIKEN cDNA 1200015N20 gene	71721	7.45	2.40	31.04	6.39E-03
1422544_at	Myo10	myosin X	17909	11.18	6.80	30.98	2.36E-04
1426430_at	Jag2	jagged 2	16450	7.75	3.21	30.88	5.64E-05
1443771_x_at	Smad7	MAD homolog 7 (Drosophila)	17131	7.37	2.45	30.86	8.97E-03
1453282_at	Cxadr	coxsackievirus and adenovirus receptor	13052	6.28	0.70	29.67	8.56E-03
1417426_at	Srgn	serglycin	19073	11.41	6.25	29.45	1.42E-04
1437668_at	Ccr1	Chemokine (C-C motif) receptor-like 1	252837	10.50	5.62	29.43	2.08E-07
1456337_at	Centd1	centaurin, delta 1	212285	6.85	2.97	29.38	5.34E-03
1446855_at	Vps13d	vacuolar protein sorting 13 D (yeast)	230895	5.21	0.79	29.37	8.95E-03
1417251_at	Palmd	palmdelphin	114301	9.85	5.05	29.02	1.88E-03
1417155_at	Mycn	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)	18109	5.79	1.26	28.92	1.84E-04
1441963_at	RP23-100C5.8	ProSAPIP1 protein	241638	5.08	0.78	28.91	2.57E-03
1421118_a_at	Gpr56	G protein-coupled receptor 56	14766	9.32	4.32	28.54	4.81E-06
1420136_a_at	---	---	---	5.12	1.14	28.54	4.35E-03
1424524_at	1200002N14Rik	RIKEN cDNA 1200002N14 gene	71712	10.30	4.90	28.23	1.88E-03
1433485_x_at	Gpr56	G protein-coupled receptor 56	14766	10.37	4.94	28.12	5.00E-04
1429764_at	1500005K14Rik	RIKEN cDNA 1500005K14 gene	76566	9.48	4.28	27.80	5.48E-04
1425600_a_at	Plcb1	phospholipase C, beta 1	18795	9.26	4.34	27.79	1.69E-05
1440173_x_at	Selp	selectin, platelet	20344	5.74	1.48	27.35	9.38E-03
1422192_at	Gja5	gap junction membrane channel protein alpha 5	14613	8.40	4.30	27.31	6.93E-03
1454861_at	Txlna	taxilin alpha	109658	7.25	2.09	26.74	4.17E-03
1419099_x_at	Stom	stomatin	13830	8.72	3.99	26.63	3.31E-03
1417616_at	St6galnac2	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	20446	8.01	3.30	26.60	3.35E-03
1437458_x_at	Clu	clusterin	12759	11.46	6.18	26.49	6.34E-04
1455398_at	Lrrc8c	leucine rich repeat containing 8 family, member C	100604	10.07	5.97	26.17	3.41E-03
1419417_at	Vegfc	vascular endothelial growth factor C	22341	7.41	2.45	26.07	2.29E-03
1451794_at	Tmcc3	transmembrane and coiled coil domains 3	319880	6.64	2.26	26.04	7.29E-04
1415854_at	Kitl	kit ligand	17311	9.11	3.86	26.01	4.99E-04
1419787_a_at	Zfp628	zinc finger protein 628	232816	5.72	0.85	25.90	5.74E-04
1429527_a_at	Plscr1	phospholipid scramblase 1	5359	8.65	4.30	25.65	6.30E-03
1448117_at	Kitl	kit ligand	17311	10.50	5.20	25.62	2.59E-03
1438648_x_at	1190003M12Rik	RIKEN cDNA 1190003M12 gene	68888	6.78	2.54	25.39	5.00E-03
1420558_at	Selp	selectin, platelet	20344	7.27	3.27	25.31	3.33E-04
1419072_at	Gstm7	glutathione S-transferase, mu 7	68312	6.35	1.83	25.23	5.67E-03
1441907_s_at	Cd93	CD93 antigen	17064	11.69	6.98	25.22	1.59E-06
1450212_at	Fmnl1	formin-like 1	57778	7.03	2.78	24.89	1.04E-03
1419468_at	Clec14a	C-type lectin domain family 14, member a	66864	9.89	5.72	24.88	3.30E-03
1454809_at	Ncoa7	nuclear receptor coactivator 7	211329	9.49	3.65	24.85	3.91E-03
1418626_a_at	Clu	clusterin	12759	10.53	5.34	24.75	5.91E-04
1434755_at	Coro2b	coronin, actin binding protein, 2B	235431	7.65	3.18	24.63	2.94E-04
1418090_at	Plvap	plasmalemma vesicle associated protein	84094	12.03	7.46	24.51	5.86E-06
1418848_at	Aqp7	aquaporin 7	11832	8.12	3.69	24.42	1.42E-05
1421929_at	Epha4	Eph receptor A4	13838	7.90	3.35	24.19	2.77E-03
1436920_at	Pcdh17	protocadherin 17	219228	10.61	6.40	24.17	6.04E-03
1435857_s_at	Aplp1	amyloid beta (A4) precursor-like protein 1	11803	6.62	1.22	24.10	6.05E-03
1450883_a_at	Cd36	CD36 antigen	12491	12.84	7.59	23.08	7.78E-04
1446734_at	C77438	expressed sequence C77438	97136	6.51	1.80	23.03	7.45E-03
1423180_at	Kcnb1	potassium voltage gated channel, Shab-related subfamily, member 1	16500	7.04	3.36	22.80	4.92E-03
1426399_at	Vwa1	von Willebrand factor A domain containing 1	246228	9.96	6.11	22.57	7.28E-03
1422479_at	Acscs2	acyl-CoA synthetase short-chain family member 2	60525	6.34	1.65	22.48	2.82E-03
1454632_at	6330442E10Rik	RIKEN cDNA 6330442E10 gene	268567	6.37	1.43	22.35	2.68E-03
1446619_at	A130038J17Rik	RIKEN cDNA A130038J17 gene	320628	5.95	2.10	22.26	7.48E-03
1437012_x_at	Rapgef3	Rap guanine nucleotide exchange factor (GEF) 3	223864	10.79	6.07	22.04	1.76E-03
1436058_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	11.85	7.65	21.71	3.68E-05
1448755_at	Col15a1	collagen, type XV, alpha 1	12819	11.72	6.48	21.68	7.29E-03
1424470_a_at	Rapgef3	Rap guanine nucleotide exchange factor (GEF) 3	223864	12.64	7.49	21.60	3.24E-03
1422040_at	Sema7a	sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A	20361	7.58	3.82	21.43	2.23E-03
1423326_at	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	12495	8.01	3.91	21.40	1.46E-04
1450413_at	Pdgfb	platelet derived growth factor, B polypeptide	18591	9.70	5.70	21.38	2.21E-03
1427086_at	---	---	20564	8.05	4.73	21.35	9.14E-03
1434111_at	Lphn2	latrophilin 2	99633	9.66	5.38	21.12	6.71E-03
1454713_s_at	Hdc	histidine decarboxylase	15186	5.52	1.34	21.07	5.29E-04

1439665_at	Lpar4	lysophosphatidic acid receptor 4	78134	6.57	3.18	20.92	7.00E-03
1449751_at	Slc6a6	Solute carrier family 6 (neurotransmitter transporter, taurine), member 6	21366	7.35	3.89	20.88	4.62E-03
1439523_at	D330027G24Rik	RIKEN cDNA D330027G24 gene	399584	5.97	2.00	20.81	4.72E-04
1421622_a_at	Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4	56508	7.29	3.30	20.80	5.33E-03
1454656_at	Spata13	spermatogenesis associated 13	219140	8.37	3.70	20.62	2.38E-04
1440589_at	---	---	---	8.05	4.05	20.45	6.09E-04
1427020_at	Scara3	scavenger receptor class A, member 3	219151	5.80	0.63	20.22	6.57E-03
1437268_at	Lancl3	LanC lantibiotic synthetase component C-like 3 (bacterial)	236285	5.18	1.43	20.18	1.78E-03
1439806_at	---	---	---	5.85	1.42	20.05	5.81E-03
1433743_at	Dach1	dachshund 1 (Drosophila)	13134	6.79	2.81	19.94	6.83E-04
1422868_s_at	Gda	guanine deaminase	14544	7.83	2.68	19.90	3.72E-03
1459840_s_at	Cdc28b	coiled coil domain containing 28B	66264	10.79	5.67	19.79	9.68E-04
1435184_at	Npr3	natriuretic peptide receptor 3	18162	6.92	3.06	19.65	1.05E-04
1421657_a_at	Sox17	SRY-box containing gene 17	20671	5.76	1.56	19.63	6.61E-03
1453748_a_at	Kif23	kinesin family member 23	71819	5.80	1.68	19.63	7.92E-03
1430615_at	Tll7	tubulin tyrosine ligase-like family, member 7	70892	6.37	2.24	19.46	3.32E-03
1422699_at	Alox12	arachidonate 12-lipoxygenase	11684	9.93	5.10	19.05	1.74E-03
1449592_at	Tcf15	transcription factor 15	21407	9.65	5.47	18.92	5.53E-05
1458324_x_at	---	---	---	7.63	3.92	18.87	3.46E-04
1428574_a_at	Chn2	chimerin (chimaerin) 2	69993	7.23	2.90	18.86	1.07E-03
1423585_at	Igf1b7	insulin-like growth factor binding protein 7	29817	9.79	5.94	18.76	3.43E-04
1424471_at	Rapgef3	Rap guanine nucleotide exchange factor (GEF) 3	223864	7.61	2.99	18.70	8.57E-03
1452937_s_at	Cdc28b	coiled coil domain containing 28B	66264	9.58	5.05	18.28	4.31E-04
1436090_at	Enpp6	ectonucleotide pyrophosphatase/phosphodiesterase 6	320981	7.11	2.93	18.27	7.64E-04
1437401_at	Igf1	insulin-like growth factor 1	16000	6.42	3.29	18.23	7.47E-03
1459913_at	Tnfsf10	tumor necrosis factor (ligand) superfamily, member 10	22035	10.20	6.20	18.06	2.44E-05
1452296_at	Slit3	slit homolog 3 (Drosophila)	20564	6.44	1.33	18.02	8.81E-03
1451972_at	Glicc1	glucocorticoid induced transcript 1	170772	5.13	1.52	17.83	8.14E-03
1416457_at	Ddah2	dimethylarginine dimethylaminohydrolase 2	51793	7.54	3.29	17.73	4.36E-03
1435554_at	Tmcc3	transmembrane and coiled coil domains 3	319880	11.38	7.09	17.56	3.94E-05
1435918_at	BC055107	cDNA sequence BC055107	268709	6.87	2.57	17.52	2.21E-03
1417574_at	Cxcl12	chemokine (C-X-C motif) ligand 12	20315	12.97	8.97	17.49	1.18E-03
1444242_at	Slco2a1	Solute carrier organic anion transporter family, member 2a1	24059	10.66	6.43	17.38	1.49E-03
1444074_at	Syne2	synaptic nuclear envelope 2	319565	5.75	1.53	17.32	6.03E-03
1424518_at	Apol9a /// Apol9b	apolipoprotein L 9a /// apolipoprotein L 9b	223672	6.07	2.19	17.28	3.24E-03
1425827_at	Nkx2-3	NK2 transcription factor related, locus 3 (Drosophila)	18089	6.47	2.41	17.24	3.49E-03
1419589_at	Cd93	CD93 antigen	17064	11.79	7.47	17.07	1.03E-04
1415855_at	Kitl	kit ligand	17311	8.76	4.42	16.99	1.17E-04
1419097_a_at	Stom	stomatin	13830	7.90	4.48	16.79	1.69E-03
1427009_at	Lama5	laminin, alpha 5	16776	7.45	4.04	16.54	7.11E-03
1437462_x_at	Mmp15	matrix metalloproteinase 15	17388	11.97	7.14	16.51	8.80E-03
1453101_at	Kihl25	kelch-like 25 (Drosophila)	207952	5.53	1.69	16.40	1.32E-03
1452952_at	9300418K01Rik	RIKEN cDNA 9300418K01 gene	71532	6.68	3.50	16.33	3.83E-03
1456603_at	1500005K14Rik	RIKEN cDNA 1500005K14 gene	76566	10.91	6.22	16.30	1.71E-03
1421008_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	8.20	4.26	16.21	5.72E-03
1447863_s_at	Nr4a2	nuclear receptor subfamily 4, group A, member 2	18227	6.63	3.01	16.20	1.00E-03
1422973_a_at	Thrsp	thyroid hormone responsive SPOT14 homolog (Rattus)	21835	8.52	5.26	15.92	1.04E-03
1450251_a_at	Lnx1	ligand of numb-protein X 1	16924	6.41	2.73	15.74	2.81E-03
1428349_s_at	Ebf3	early B-cell factor 3	13593	9.62	6.10	15.71	2.29E-03
1422597_at	Mmp15	matrix metalloproteinase 15	17388	5.04	1.82	15.64	1.54E-03
1459903_at	Sema7a	sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A	20361	10.74	6.90	15.60	6.03E-03
1443675_at	---	---	---	5.77	1.53	15.58	9.67E-03
1421170_a_at	Plcb1	phospholipase C, beta 1	18795	6.66	3.19	15.35	9.19E-04
1442075_at	Al314604	expressed sequence Al314604	102027	7.44	3.25	15.30	2.63E-03
1435557_at	Fhod1	formin homology 2 domain containing 1	234686	7.42	3.96	15.26	9.78E-03
1446481_at	---	---	---	7.07	3.85	15.20	7.39E-04
1420913_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	10.59	6.63	15.20	9.46E-04
1427293_a_at	Auts2	autism susceptibility candidate 2	319974	6.53	2.92	15.17	7.79E-04
1419186_a_at	St8sia4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	20452	11.70	7.46	15.14	1.33E-04
1452751_at	Ebf3	early B-cell factor 3	13593	8.10	3.78	15.08	4.35E-03
1426720_at	Apbb2	amyloid beta (A4) precursor protein-binding, family B, member 2	11787	9.48	5.15	14.98	6.76E-03
1454678_s_at	A130022J15Rik	RIKEN cDNA A130022J15 gene	101351	9.92	6.13	14.54	5.15E-04
1422820_at	Lipe	lipase, hormone sensitive	16890	6.02	2.97	14.49	2.23E-03
1423528_at	Bcas3	breast carcinoma amplified sequence 3	192197	5.37	1.62	14.34	1.12E-03
1435587_at	Pcid2	PCI domain containing 2	234069	5.71	2.74	14.11	2.93E-03
1421987_at	Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	23972	8.44	4.40	13.79	1.98E-04
1418673_at	Snai2	snail homolog 2 (Drosophila)	20583	7.23	4.51	13.39	7.74E-03
1426167_a_at	Camk4	calcium/calmodulin-dependent protein kinase IV	12326	5.39	2.34	13.34	2.72E-03
1444422_at	Pcdh19	protocadherin 19	279653	7.49	4.12	13.24	3.01E-03
1440358_at	Arhgef15	Rho guanine nucleotide exchange factor (GEF) 15	442801	10.84	6.47	13.21	4.94E-03
1438874_at	Nme7	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)	171567	5.49	2.44	13.15	2.12E-03
1438585_at	Syne2	synaptic nuclear envelope 2	319565	7.70	4.47	13.08	2.91E-04
1426431_at	Jag2	jagged 2	16450	9.18	5.54	12.99	2.22E-05
1460356_at	Esam	endothelial cell-specific adhesion molecule	69524	11.46	7.90	12.72	3.33E-04
1449521_at	Cd93	CD93 antigen	17064	10.40	6.68	12.66	1.32E-03
1444056_at	---	---	---	5.22	1.80	12.64	7.60E-03
1420459_at	Ripply3	rippy3 homolog (zebrafish)	170765	10.11	5.83	12.59	7.22E-03

1437865_at	Spata13	spermatogenesis associated 13	219140	10.58	7.40	12.53	1.96E-03
1425518_at	Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4	56508	7.03	4.01	12.24	2.48E-03
1422707_at	Pik3cg	phosphoinositide-3-kinase, catalytic, gamma polypeptide	30955	5.55	2.17	12.02	1.13E-03
1434252_at	Tmcc3	transmembrane and coiled coil domains 3	319880	9.01	5.04	12.01	1.67E-03
1427010_s_at	Lama5	laminin, alpha 5	16776	8.97	5.54	11.92	9.60E-04
1423862_at	Plekhf2	pleckstrin homology domain containing, family F (with FYVE domain) member 2	71801	6.66	3.50	11.88	6.92E-03
1451733_at	Gcnt2	glucosaminyl (N-acetyl) transferase 2, 1-branching enzyme	14538	9.73	5.59	11.84	2.27E-03
1419759_at	Abcb1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	18671	10.00	6.36	11.65	3.39E-03
1416072_at	Cd34	CD34 antigen	12490	11.00	7.33	11.57	9.95E-06
1438667_at	5730410E15Rik	RIKEN cDNA 5730410E15 gene	319613	5.31	2.63	11.57	9.69E-03
1448416_at	Mgp	matrix Gla protein	17313	11.02	7.39	11.47	5.43E-04
1416589_at	Sparc	secreted acidic cysteine rich glycoprotein	20692	13.00	9.35	11.44	2.64E-04
1428384_at	D4Bwg0951e	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	52829	7.40	4.13	11.39	7.95E-03
1417235_at	Ehd3	EH-domain containing 3	57440	6.44	2.85	11.36	7.54E-03
1418746_at	Pnkd	paroxysmal nonkinesiogetic dyskinesia	56695	6.97	3.76	11.34	9.20E-04
1456424_s_at	Pltp	phospholipid transfer protein	18830	12.68	9.12	11.26	3.76E-05
1416992_at	Mfng	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	17305	8.35	4.97	11.22	2.76E-03
1422263_at	Bdkrb2	bradykinin receptor, beta 2	12062	5.39	1.67	11.11	6.88E-04
1415983_at	Lcp1	lymphocyte cytosolic protein 1	18826	6.93	3.64	11.04	9.92E-03
1427640_a_at	Runx1t1	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	12395	5.68	2.01	10.97	9.62E-03
1422184_a_at	Ak1	adenylate kinase 1	11636	5.31	2.30	10.93	9.67E-03
1418106_at	Hey2	hairly/enhancer-of-split related with YRPW motif 2	15214	7.99	3.47	10.86	8.90E-03
1455340_at	Dennd5b	DENN/MADD domain containing 5B	320560	7.52	3.96	10.71	8.26E-04
1437149_at	Slc6a6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	21366	11.31	7.53	10.65	3.21E-03
1436801_x_at	Cdc42ep4	CDC42 effector protein (Rho GTPase binding) 4	56699	9.28	5.90	10.51	7.75E-05
1434010_at	Als2cr13	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 13 (human)	72750	8.91	6.00	10.46	1.20E-03
1432273_a_at	Darc	Duffy blood group, chemokine receptor	13349	7.13	4.20	10.42	1.55E-03
1456070_at	Ptprg	protein tyrosine phosphatase, receptor type, G	19270	9.25	5.81	10.42	2.51E-04
1451924_a_at	Edn1	endothelin 1	13614	8.85	5.25	10.27	6.70E-06
1437669_x_at	Ccr1	Chemokine (C-C motif) receptor-like 1	252837	9.49	6.22	10.25	1.18E-04
1423611_at	Alpl	alkaline phosphatase, liver/bone/kidney	11647	8.08	5.11	10.25	4.89E-03
1428344_at	Ppapdc2	phosphatidic acid phosphatase type 2 domain containing 2	74411	8.80	5.67	10.13	2.76E-03
1429691_at	Ptprg	protein tyrosine phosphatase, receptor type, G	19270	11.19	7.48	10.08	4.00E-04
1450650_at	Myo10	myosin X	17909	8.17	4.94	9.91	2.00E-03
1451263_a_at	Fabp4	fatty acid binding protein 4, adipocyte	11770	13.32	9.77	9.90	2.60E-04
1455251_at	Itga1	integrin alpha 1	109700	11.14	8.48	9.89	5.56E-03
1418058_at	Elt1	EGF, latrophilin seven transmembrane domain containing 1	170757	10.92	7.65	9.87	3.96E-06
1418004_a_at	Tmem176b	transmembrane protein 176B	65963	10.80	7.77	9.84	8.33E-04
1439680_at	Tnfsf10	tumor necrosis factor (ligand) superfamily, member 10	22035	9.54	6.42	9.76	6.75E-05
1439633_at	Syt7	synaptotagmin VII	54525	6.30	3.58	9.75	5.78E-03
1460330_at	Anxa3	annexin A3	11745	8.56	5.77	9.75	5.59E-03
1459524_at	Mcc	mutated in colorectal cancers	328949	8.70	5.47	9.69	2.08E-03
1420148_at	Slc6a6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	21366	8.11	5.09	9.62	4.82E-04
1424155_at	Fabp4	fatty acid binding protein 4, adipocyte	11770	6.98	3.97	9.60	3.87E-04
1450651_at	Myo10	myosin X	17909	9.32	6.57	9.48	3.31E-03
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	8.30	4.36	9.44	7.90E-03
1454731_at	Myo10	myosin X	17909	9.50	6.42	9.41	2.54E-04
1418059_at	Elt1	EGF, latrophilin seven transmembrane domain containing 1	170757	10.79	8.00	9.36	3.90E-03
1439272_at	Lcorl	ligand dependent nuclear receptor corepressor like	209707	5.44	2.58	9.34	9.00E-03
1437636_at	LOC623121	similar to Interferon-activatable protein 203 (Ifi-203) (Interferon-inducible protein p203)	623121	6.38	3.18	9.33	1.26E-03
1424956_at	Ahdc1	AT hook, DNA binding motif, containing 1	230793	5.08	2.23	9.30	1.09E-03
1434261_at	Sipa1l2	signal-induced proliferation-associated 1 like 2	244668	9.29	5.86	9.27	1.98E-03
1416511_a_at	Cdc42ep4	CDC42 effector protein (Rho GTPase binding) 4	56699	8.97	5.74	9.20	2.95E-03
1444821_at	D8Erd82e	DNA segment, Chr 8, ERATO Doi 82, expressed	244418	5.54	2.10	9.17	2.76E-03
1422634_a_at	Vsig2	V-set and immunoglobulin domain containing 2	57276	6.42	3.21	9.16	4.98E-03
1456046_at	Cd93	CD93 antigen	17064	11.77	8.63	9.13	2.62E-04
1423488_at	Mmd	monocyte to macrophage differentiation-associated	67468	8.64	5.55	9.12	8.68E-06
1442683_at	Hmg20a	high mobility group 20A	66867	5.33	2.31	9.08	3.08E-04
1421172_at	Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	11489	5.64	2.26	9.05	3.91E-03
1434445_at	D15Wsu169e	DNA segment, Chr 15, Wayne State University 169, expressed	223666	6.53	3.43	9.02	7.72E-03
1450391_a_at	Mgll	monoglyceride lipase	23945	11.47	8.59	8.97	1.01E-04
1449852_a_at	Ehd4	EH-domain containing 4	98878	11.57	8.14	8.87	2.12E-04
1450377_at	Thbs1	thrombospondin 1	21825	9.97	7.26	8.85	4.55E-03
1420425_at	Prdm1	PR domain containing 1, with ZNF domain	12142	7.86	4.60	8.84	1.28E-03
1427034_at	Ace	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	11421	8.92	5.62	8.77	3.86E-03
1429184_at	Gvin1	GTPase, very large interferon inducible 1	74558	11.11	8.46	8.75	7.66E-03

1436525_at	Ap3s2	adaptor-related protein complex 3, sigma 2 subunit	11778	5.86	3.21	8.70	8.62E-03
1436341_at	Hmbox1	homeobox containing 1	219150	8.06	4.39	8.65	8.23E-03
1434360_s_at	Ptprg	protein tyrosine phosphatase, receptor type, G	19270	11.63	8.35	8.54	9.02E-03
1448436_a_at	Irf1	interferon regulatory factor 1	16362	10.11	7.45	8.51	5.77E-04
1448392_at	Sparc	secreted acidic cysteine rich glycoprotein	20692	12.98	9.50	8.41	1.22E-03
1433741_at	Cd38	CD38 antigen	12494	9.94	6.65	8.40	5.00E-04
1421065_at	Jak2	Janus kinase 2	16452	5.16	1.68	8.37	8.01E-03
1418669_at	Hspg2	perlecan (heparan sulfate proteoglycan 2)	15530	11.88	9.47	8.26	8.93E-03
1453557_at	4930562F07Rik	RIKEN cDNA 4930562F07 gene	75255	8.02	5.22	8.20	9.52E-04
1436425_at	Kank4	KN motif and ankyrin repeat domains 4	242553	5.61	3.02	8.13	5.08E-03
1420410_at	Nr5a2	nuclear receptor subfamily 5, group A, member 2	26424	6.74	4.13	7.96	1.10E-03
1427646_a_at	Arhgef2	rho/rac guanine nucleotide exchange factor (GEF) 2	16800	6.25	3.73	7.96	3.23E-03
1448899_s_at	Rad51ap1	RAD51 associated protein 1	19362	5.18	2.41	7.93	6.98E-03
1420973_at	Arid5b	AT rich interactive domain 5B (MRF1-like)	71371	8.89	5.66	7.90	4.37E-03
1424988_at	Myiip	myosin regulatory light chain interacting protein	218203	8.01	5.22	7.82	4.78E-03
1449888_at	Epas1	endothelial PAS domain protein 1	13819	11.28	8.36	7.81	6.11E-05
1418920_at	Cldn15	claudin 15	60363	9.24	6.54	7.78	6.63E-03
1434112_at	Lphn2	latrophilin 2	99633	8.81	5.84	7.63	5.96E-04
1427137_at	Ces5	carboxylesterase 5	234673	7.22	4.55	7.60	8.94E-04
1422786_at	Slc30a1	solute carrier family 30 (zinc transporter), member 1	22782	9.58	6.67	7.54	6.24E-04
1429351_at	Klhl24	kelch-like 24 (Drosophila)	75785	7.00	4.20	7.52	8.73E-05
1460302_at	Thbs1	thrombospondin 1	21825	9.25	6.46	7.51	4.03E-04
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	9.46	7.11	7.45	5.56E-03
1416541_at	Clpb	ClpB caseinolytic peptidase B homolog (E. coli)	20480	6.17	2.42	7.42	6.99E-03
1417965_at	Plekha1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1	101476	8.18	4.80	7.40	8.93E-03
1448467_a_at	Ehbp11	EH domain binding protein 1-like 1	114601	6.74	4.30	7.35	1.39E-03
1436164_at	Slc30a1	solute carrier family 30 (zinc transporter), member 1	22782	11.83	8.74	7.27	1.73E-03
1438760_x_at	Adam15	a disintegrin and metalloproteinase domain 15 (metargidin)	11490	9.31	6.87	7.19	4.44E-03
1425503_at	Gcnt2	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme	14538	8.36	5.35	7.10	7.94E-04
1455020_at	Snx25	sorting nexin 25	102141	7.59	5.16	7.07	8.23E-04
1460574_at	Fat4	FAT tumor suppressor homolog 4 (Drosophila)	329628	9.51	6.98	7.07	2.20E-03
1459886_at	---	---	---	11.14	8.35	7.04	5.81E-03
1424989_at	Orai1	ORAI calcium release-activated calcium modulator 1	109305	6.43	3.62	7.00	8.79E-04
1449839_at	Casp3	caspase 3	12367	8.35	5.47	6.97	4.20E-03
1416488_at	Cng2	cyclin G2	12452	8.42	5.77	6.96	5.34E-04
1453285_at	Tmem88	transmembrane protein 88	67020	10.83	7.99	6.95	1.49E-05
1430474_a_at	Mtch2	mitochondrial carrier homolog 2 (C. elegans)	56428	8.64	6.13	6.89	1.66E-04
1436907_at	Nav1	neuron navigator 1	215690	7.94	4.73	6.87	3.46E-03
1440975_at	Mxra7	matrix-remodelling associated 7	67622	9.31	6.63	6.86	5.10E-03
1438666_at	Ldlrad3	low density lipoprotein receptor class A domain containing 3	241576	9.28	6.94	6.85	3.47E-03
1434338_at	Rgp1	RGP1 retrograde golgi transport homolog (S. cerevisiae)	242406	8.55	6.19	6.84	7.89E-03
1436919_at	Trp53i11	transformation related protein 53 inducible protein 11	277414	8.29	5.87	6.83	8.30E-03
1448171_at	Siah2	seven in absentia 2	20439	5.50	2.79	6.78	3.55E-03
1422443_at	Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	170750	7.64	5.33	6.70	4.32E-03
1423407_a_at	Fbln2	fibulin 2	14115	9.54	6.46	6.68	6.74E-04
1433748_at	Zdhc18	zinc finger, DHHC domain containing 18	12452	10.13	7.15	6.57	1.49E-03
1423141_at	Lipa	lysosomal acid lipase A	16889	10.26	8.12	6.56	9.79E-03
1426593_a_at	Fbxo22	F-box protein 22	71999	9.38	7.02	6.55	2.65E-03
1442382_at	Mast4	microtubule associated serine/threonine kinase family member 4	328329	7.08	4.66	6.54	2.64E-04
1435260_at	Akt3	thymoma viral proto-oncogene 3	---	9.89	7.46	6.50	7.85E-04
1426640_s_at	Trib2	tribbles homolog 2 (Drosophila)	217410	8.74	6.07	6.48	5.80E-04
1449341_a_at	Stom	stomatin	13830	8.40	6.19	6.47	8.66E-03
1436173_at	Dlc1	deleted in liver cancer 1	50768	10.96	8.17	6.47	3.34E-07
1440870_at	Prdm16	PR domain containing 16	70673	9.94	7.58	6.45	1.97E-03
1460206_at	Grasp	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein	56149	9.52	7.25	6.45	2.14E-03
1426592_a_at	Fbxo22	F-box protein 22	71999	8.48	5.78	6.42	5.06E-03
1455613_at	E130308A19Rik	RIKEN cDNA E130308A19 gene	230259	5.41	2.51	6.41	5.65E-03
1451355_at	Asah3l	N-acylsphingosine amidohydrolase 3-like	230379	10.14	7.95	6.37	6.25E-03
1421448_at	Garnl1	GTPase activating RANGAP domain-like 1	56784	7.92	5.31	6.33	2.84E-03
1434115_at	Cdh13	cadherin 13	12554	9.62	6.92	6.28	5.23E-05
1460249_at	Lnx2	ligand of numb-protein X 2	140887	8.92	6.15	6.27	9.76E-03
1433837_at	8430408G22Rik	RIKEN cDNA 8430408G22 gene	213393	9.43	6.91	6.26	1.40E-03
1451436_at	Sbno1	sno, strawberry notch homolog 1 (Drosophila)	243272	6.96	3.91	6.26	1.43E-03
1427853_a_at	Hsp25-ps1	heat shock protein 25, pseudogene 1	15508	9.61	7.23	6.22	6.31E-03
1439757_s_at	Epha4	Eph receptor A4	13838	7.02	4.73	6.19	2.96E-04
1422862_at	Pdim5	PDZ and LIM domain 5	56376	6.95	3.75	6.17	2.98E-03
1451911_a_at	Ace	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	11421	9.51	6.83	6.08	2.11E-03
1415849_s_at	Stmn1	stathmin 1	16765	10.05	7.87	6.02	5.50E-03
1425964_x_at	Hspb1	heat shock protein 1	15507	9.63	6.90	6.00	3.32E-03
1452472_at	Rtp3	receptor transporter protein 3	235636	7.61	5.49	5.99	2.86E-03
1425682_a_at	Tprkb	Tp53rk binding protein	69786	5.58	3.26	5.97	8.17E-03
1434322_at	Micall2	MICAL-like 2	231830	7.83	4.62	5.90	3.55E-03

1448737_at	Tspan7	tetraspanin 7	21912	12.20	9.57	5.86	6.17E-04
1442684_x_at	Hmg20a	high mobility group 20A	66867	5.15	2.64	5.82	5.37E-04
1427996_at	BC028528	cDNA sequence BC028528	229600	11.48	9.39	5.80	4.78E-03
1438779_at	Col4a3	collagen, type IV, alpha 3	12828	5.17	2.77	5.80	4.64E-03
1439926_at	Heg1	HEG homolog 1 (zebrafish)	77446	7.33	4.21	5.80	5.65E-03
1418670_s_at	Hspg2	perlecan (heparan sulfate proteoglycan 2)	15530	10.25	7.95	5.79	3.66E-04
1424567_at	Tspan2	tetraspanin 2	70747	8.90	6.69	5.70	8.10E-04
1445134_at	Mkl2	MKL/myocardin-like 2	239719	10.18	7.27	5.62	5.28E-03
1416630_at	Id3	inhibitor of DNA binding 3	15903	9.72	7.32	5.58	7.78E-04
1435902_at	Nudt18	nudix (nucleoside diphosphate linked moiety X)-type motif 18	213484	6.28	3.46	5.54	1.43E-03
1433836_a_at	8430408G22Rik	RIKEN cDNA 8430408G22 gene	213393	11.00	8.38	5.48	4.75E-04
1422642_at	Cdc42ep3	CDC42 effector protein (Rho GTPase binding) 3	260409	8.01	5.89	5.47	3.27E-03
1451860_a_at	Trim30	tripartite motif-containing 30	20128	8.32	5.55	5.46	3.21E-03
1437956_at	Pik3r6	phosphoinositide-3-kinase, regulatory subunit 6	104709	6.88	4.03	5.44	7.72E-03
1435553_at	Pdzd2	PDZ domain containing 2	68070	9.21	6.65	5.42	1.49E-04
1418285_at	Efnb1	ephrin B1	13641	8.09	5.41	5.40	8.10E-03
1453908_at	Ptprb	protein tyrosine phosphatase, receptor type, B	19263	10.12	8.03	5.38	4.04E-03
1454708_at	Ablim1	actin-binding LIM protein 1	226251	10.76	8.83	5.36	6.67E-03
1452519_a_at	Zfp36	zinc finger protein 36	22695	11.85	9.50	5.34	9.51E-04
1455575_at	Eif4ebp2	eukaryotic translation initiation factor 4E binding protein 2	13688	7.88	4.88	5.33	6.87E-03
1438559_x_at	Slc44a2	solute carrier family 44, member 2	68682	11.53	9.69	5.29	4.82E-03
1429514_at	Ppap2b	phosphatidic acid phosphatase type 2B	67916	11.86	9.22	5.27	5.94E-04
1426785_s_at	Mgll	monoglyceride lipase	23945	11.79	9.36	5.26	1.67E-04
1422570_at	Yy1	YY1 transcription factor	22632	8.54	6.55	5.25	2.39E-03
1460436_at	Ndst1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	15531	9.58	7.66	5.22	1.28E-03
1417288_at	Plekha2	pleckstrin homology domain-containing, family A (phosphoinositide binding specific) member 2	83436	6.35	4.39	5.10	7.23E-03
1417985_at	Nrarp	Notch-regulated ankyrin repeat protein	67122	9.79	7.30	5.08	3.48E-03
1448908_at	Ppap2b	phosphatidic acid phosphatase type 2B	67916	10.04	7.66	5.04	5.48E-04
1417434_at	Gpd2	glycerol phosphate dehydrogenase 2, mitochondrial	14571	9.11	7.08	5.04	8.51E-04
1434487_at	Mef2d	myocyte enhancer factor 2D	17261	7.19	5.10	5.03	5.26E-04
1455518_at	---	---	---	7.00	4.95	5.03	4.80E-03
1421918_at	Anp32a	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	11737	7.27	4.93	4.94	5.45E-03
1438910_a_at	Stom	stomatin	13830	8.73	6.27	4.94	7.02E-04
1422943_a_at	Hspb1	heat shock protein 1	15507	10.11	7.82	4.93	6.87E-03
1450206_at	Dlc1	deleted in liver cancer 1	50768	11.86	9.83	4.92	9.61E-03
1437197_at	Sorbs2	sorbin and SH3 domain containing 2	234214	9.54	6.84	4.90	3.98E-03
1420972_at	Arid5b	AT rich interactive domain 5B (MRF1-like)	71371	9.12	7.05	4.75	1.92E-03
1422673_at	Prkd1	protein kinase D1	18760	7.91	6.00	4.68	7.59E-03
1455626_at	Hoxa9	homeo box A9	15405	8.18	5.80	4.65	4.71E-03
1426994_at	Phlpp	PH domain and leucine rich repeat protein phosphatase	98432	9.06	6.91	4.65	4.07E-03
1436367_at	---	---	327823	11.76	9.97	4.63	5.48E-03
1450824_at	Ptch1	patched homolog 1	19206	5.46	3.31	4.63	1.28E-03
1455037_at	Pixna2	plexin A2	18845	9.72	7.60	4.61	2.25E-03
1433691_at	Ppp1r3c	protein phosphatase 1, regulatory (inhibitor) subunit 3C	53412	5.80	3.97	4.61	8.17E-03
1459888_at	LOC545261	hypothetical protein LOC545261	545261	10.15	7.49	4.60	4.60E-03
1434434_s_at	Tcerg1	transcription elongation regulator 1 (CA150)	56070	7.47	4.87	4.58	4.75E-03
1453188_at	6230424C14Rik	RIKEN cDNA 6230424C14 gene	67786	10.10	8.04	4.58	3.72E-04
1447584_s_at	Myc1	myc target 1	68632	11.19	9.28	4.57	2.95E-03
1434403_at	Spred2	sprouty-related, EVH1 domain containing 2	114716	8.98	7.01	4.53	7.94E-03
1429772_at	Pixna2	plexin A2	18845	10.70	8.53	4.51	1.99E-03
1456532_at	Pdgfd	platelet-derived growth factor, D polypeptide	71785	8.79	6.95	4.49	4.66E-03
1451908_a_at	Sec14l1	SEC14-like 1 (S. cerevisiae)	74136	8.97	6.67	4.43	6.11E-03
1418286_a_at	Efnb1	ephrin B1	13641	8.71	6.79	4.43	8.82E-04
1418921_at	Cadm3	cell adhesion molecule 3	94332	7.82	5.39	4.41	4.15E-03
1460740_at	Cltb	clathrin, light polypeptide (Lcb)	74325	6.77	4.60	4.36	2.21E-03
1435825_at	Acvr1l	activin A receptor, type II-like 1	11482	9.56	7.67	4.35	2.98E-03
1423584_at	Igfbp7	insulin-like growth factor binding protein 7	29817	13.49	11.20	4.29	5.65E-04
1450696_at	Psbm9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	10.06	7.93	4.27	9.07E-03
1422444_at	Itga6	integrin alpha 6	16403	11.68	9.14	4.26	2.23E-03
1439485_at	Zfp608	zinc finger protein 608	269023	6.43	4.74	4.25	5.49E-03
1454984_at	Lifr	leukemia inhibitory factor receptor	106020	10.09	8.09	4.24	3.99E-03
1454671_at	Insig1	insulin induced gene 1	231070	9.49	7.54	4.22	2.78E-03
1456538_at	Sdccag8	serologically defined colon cancer antigen 8	76816	9.13	7.11	4.22	1.34E-03
1427486_at	Ptprb	protein tyrosine phosphatase, receptor type, B	19263	11.91	9.76	4.21	1.26E-04
1440642_at	D630042P16Rik	RIKEN cDNA D630042P16 gene	243612	7.46	5.36	4.19	4.66E-03
1452852_at	Twistnb	TWIST neighbor	28071	8.81	7.00	4.19	2.22E-03
1440867_at	Spry4	sprouty homolog 4 (Drosophila)	24066	7.28	5.71	4.17	6.04E-03
1429543_at	6230424C14Rik	RIKEN cDNA 6230424C14 gene	67786	11.38	9.22	4.16	2.40E-03
1445301_at	---	---	229600	6.93	4.68	4.04	1.03E-03
1418483_a_at	Ggta1	glycoprotein galactosyltransferase alpha 1, 3	14594	10.24	8.37	3.93	6.61E-03
1460603_at	Samd9l	sterile alpha motif domain containing 9-like	209086	8.15	6.42	3.91	3.04E-03
1424535_at	Tctn3	tectonic family member 3	67590	5.33	3.50	3.89	6.54E-03
1460039_at	Clec1a	C-type lectin domain family 1, member a	243653	8.25	5.97	3.88	1.67E-03
1440225_at	Gpr116	G protein-coupled receptor 116	224792	11.10	9.25	3.87	1.13E-04
1416805_at	1110032E23Rik	RIKEN cDNA 1110032E23 gene	68659	9.76	7.81	3.80	5.48E-03
1447975_a_at	LOC545261	hypothetical protein LOC545261	545261	9.79	7.57	3.79	1.93E-03
1423613_at	Ssf2	sperm specific antigen 2	70599	7.70	5.68	3.79	3.38E-03
1426977_at	Usp47	ubiquitin specific peptidase 47	74996	8.82	6.69	3.76	2.35E-03
1416330_at	Cd81	CD81 antigen	12520	12.65	10.80	3.71	4.35E-05
1427854_x_at	Hsp25-ps1	heat shock protein 25, pseudogene 1	15508	8.67	6.91	3.71	6.37E-03
1419301_at	Fzd4	frizzled homolog 4 (Drosophila)	14366	9.57	7.59	3.69	3.03E-03

1449461_at	Rbp7	retinol binding protein 7, cellular DNA segment, Chr 1, Brigham & Women's Genetics 0212 expressed	63954	10.56	8.99	3.66	8.26E-04
1452824_at	D1Bwg0212e	neural precursor cell expressed, developmentally down-regulated gene 9	52846	6.66	5.14	3.62	7.21E-03
1422818_at	Nedd9	tetratricopeptide repeat domain 9C	18003	8.58	6.93	3.62	3.37E-03
1430569_at	Ttc9c	TSC22 domain family, member 1	70387	8.90	6.81	3.59	1.26E-03
1454758_a_at	Tsc22d1	unc-45 homolog B (C. elegans)	21807	11.04	9.13	3.55	2.46E-04
1436939_at	Unc45b	huntingtin interacting protein 1	217012	10.74	8.68	3.54	2.02E-03
1424755_at	Hip1	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4	215114	9.87	7.98	3.53	3.08E-03
1436303_at	Mllt4	chemokine (C-X-C motif) ligand 9	17356	9.93	7.64	3.51	8.52E-03
1456907_at	Cxcl9	transmembrane protein 57	17329	5.99	4.26	3.48	7.65E-03
1428884_at	Tmem57	solute carrier family 46, member 3	66146	9.30	7.45	3.47	8.90E-03
1451486_at	Slc46a3	Kruppel-like factor 2 (lung)	71706	6.05	4.50	3.46	2.73E-03
1448890_at	Klf2	CD200 antigen	16598	9.21	7.34	3.45	3.86E-03
1448788_at	Cd200	collagen, type IV, alpha 2	17470	11.73	10.05	3.43	8.69E-05
1424051_at	Col4a2	exocyst complex component 6	12827	12.32	10.55	3.41	7.24E-04
1460576_at	Exoc6	leucine zipper protein 1	107371	9.59	8.09	3.41	9.42E-04
1416469_at	Luzp1	poliovirus receptor	269593	8.01	6.06	3.40	9.93E-04
1451160_s_at	Pvr	low density lipoprotein receptor-related protein associated protein 1	52118	8.06	6.56	3.35	3.47E-03
1426697_a_at	Lrpap1	kelch-like 24 (Drosophila)	16976	7.10	5.46	3.34	1.24E-03
1428651_at	Klh24	ST6 (alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	75785	10.75	9.07	3.33	3.90E-03
1420903_at	St6galnac3	TAP binding protein	20447	9.99	8.65	3.32	8.19E-03
1450378_at	Tapbp	---	21356	8.04	6.24	3.30	9.40E-03
1444834_at	---	---	---	5.40	3.65	3.29	1.46E-03
1452734_at	Rnaset2b	ribonuclease T2B	68195	10.79	8.92	3.25	7.37E-04
1425094_a_at	Lhx6	LIM homeobox protein 6	16874	6.65	4.80	3.22	9.61E-04
1428559_at	Kdsr	3-ketodihydroshingosine reductase	70750	8.71	7.03	3.22	3.29E-03
1423392_at	Clic4	chloride intracellular channel 4 (mitochondrial)	29876	11.58	10.13	3.22	5.70E-03
1448126_at	Fam60a	family with sequence similarity 60, member A	56306	7.86	6.10	3.21	1.20E-03
1438310_at	---	---	---	6.31	4.47	3.19	2.25E-04
1422445_at	Itga6	integrin alpha 6	16403	11.03	9.24	3.19	7.95E-03
1434339_at	Fnbp1l	formin binding protein 1-like	214459	9.06	7.06	3.19	1.79E-03
1452175_at	1810026J23Rik	RIKEN cDNA 1810026J23 gene	69773	7.07	5.59	3.18	3.60E-03
1418643_at	Tspan13	tetraspanin 13	66109	11.41	9.78	3.16	6.65E-04
1434070_at	Jag1	jagged 1	16449	9.65	8.17	3.15	2.83E-03
1456212_x_at	Socs3	suppressor of cytokine signaling 3	12702	7.94	5.83	3.13	4.67E-03
1436248_at	---	---	---	8.49	7.26	3.10	3.84E-03
1422631_at	Ahr	aryl-hydrocarbon receptor	11622	8.57	6.93	3.10	3.09E-03
1460578_at	Fgd5	FYVE, RhoGEF and PH domain containing 5	232237	10.71	9.11	3.06	4.91E-03
1435263_at	Tmem106a	transmembrane protein 106A	217203	5.15	3.75	3.06	7.29E-03
1423726_at	Vat1	vesicle amine transport protein 1 homolog (T californica)	26949	9.01	7.39	3.04	6.22E-04
1419616_at	Bmpr2	bone morphogenic protein receptor, type II (serine/threonine kinase)	12168	9.43	8.11	3.04	1.22E-03
1428085_at	1110057K04Rik	RIKEN cDNA 1110057K04 gene	68832	6.23	4.59	3.03	4.44E-03
1457013_at	Garnl1	GTPase activating RANGAP domain-like 1	56784	6.91	4.94	3.01	9.80E-03
1423393_at	Clic4	chloride intracellular channel 4 (mitochondrial)	29876	11.53	10.08	3.00	9.19E-03
1424354_at	Tmem140	transmembrane protein 140	68487	11.81	10.14	3.00	8.96E-04
1436736_x_at	DOH4S114	DNA segment, human D4S114	27528	10.36	8.57	2.97	1.66E-03
1422861_s_at	Pdlim5	PDZ and LIM domain 5	56376	8.62	6.90	2.97	2.71E-04
1452807_s_at	1500016O10Rik	RIKEN cDNA 1500016O10 gene	68952	7.44	5.57	2.96	2.36E-03
1418098_at	Adcy4	adenylate cyclase 4	104110	9.22	7.49	2.95	8.39E-03
1424568_at	Tspan2	tetraspanin 2	70747	8.26	6.91	2.93	6.76E-03
1422541_at	Ptprm	protein tyrosine phosphatase, receptor type, M	19274	10.77	9.67	2.87	7.41E-03
1455437_at	BC033915	cDNA sequence BC033915	70661	6.31	4.94	2.85	7.38E-03
1428871_at	4121402D02Rik	RIKEN cDNA 4121402D02 gene	100047441	8.96	7.60	2.83	7.79E-03
1438606_a_at	Clic4	chloride intracellular channel 4 (mitochondrial)	29876	10.18	8.73	2.83	7.36E-04
1421826_at	Dil4	delta-like 4 (Drosophila)	54485	7.53	5.88	2.82	7.98E-03
1436892_at	Spred2	sprouty-related, EVH1 domain containing 2	114716	7.88	6.43	2.81	7.24E-03
1448318_at	Adfp	adipose differentiation related protein	11520	9.27	7.49	2.78	9.33E-03
1435823_x_at	Egfl7	EGF-like domain 7	353156	8.81	7.66	2.76	6.47E-03
1435436_at	Epas1	endothelial PAS domain protein 1	13819	12.71	11.42	2.74	1.37E-03
1453202_at	E330016A19Rik	RIKEN cDNA E330016A19 gene	214763	5.98	4.69	2.73	8.60E-03
1447933_at	Kif26a	kinesin family member 26A	668303	10.41	8.75	2.72	2.56E-03
1453435_a_at	Fmo2	flavin containing monooxygenase 2	55990	10.85	9.29	2.72	2.44E-03
1448864_at	Snrk	SNF related kinase	20623	11.42	10.14	2.72	1.97E-03
1428471_at	Sorbs1	sorbin and SH3 domain containing 1	20411	9.13	7.83	2.72	5.61E-03
1455254_at	4833420G11Rik	RIKEN cDNA 4833420G11 gene	108863	7.61	5.84	2.71	2.17E-03
1425716_s_at	Bak1	BCL2-antagonist/killer 1	12018	6.38	5.31	2.70	6.51E-03
1431415_a_at	Tbpl1	TATA box binding protein-like 1	237336	8.54	7.08	2.69	9.52E-03
1453131_at	Cd300lg	CD300 antigen like family member G	52685	10.02	8.74	2.68	3.84E-03
1456012_x_at	Rnaset2b	ribonuclease T2B	68195	10.64	9.02	2.66	1.11E-03
1434075_at	BC030336	cDNA sequence BC030336	233812	8.76	7.18	2.66	3.64E-03
1419043_a_at	Ilgp1	interferon inducible GTPase 1	60440	10.93	9.31	2.60	5.44E-03
1440830_at	Gpr116	G protein-coupled receptor 116	224792	12.38	11.18	2.60	3.43E-03
1421604_a_at	Klf3	Kruppel-like factor 3 (basic)	16599	10.82	9.10	2.60	6.65E-03
1456318_at	Clec1a	C-type lectin domain family 1, member a	243653	9.74	8.59	2.59	8.95E-03
1418394_a_at	Cd97	CD97 antigen	26364	7.56	6.57	2.58	5.10E-03
1457761_at	C79607	expressed sequence C79607	98149	5.07	3.96	2.55	4.62E-03
1423461_a_at	Ubl3	ubiquitin-like 3	24109	8.78	7.54	2.52	9.52E-03
1455308_at	Ano6	anoctamin 6	105722	11.37	10.25	2.51	2.69E-03
1419879_s_at	Trim25	tripartite motif-containing 25	217069	11.80	10.75	2.49	4.80E-03
1419342_at	Tram2	translocating chain-associating membrane protein 2	170829	8.25	7.20	2.48	5.20E-03
1422788_at	Slc43a3	solute carrier family 43, member 3	58207	10.53	9.06	2.48	2.21E-03
1423725_at	Pls3	plastin 3 (T-isoform)	102866	10.06	8.73	2.48	3.78E-04
1416179_a_at	Rdx	radixin	19684	10.25	9.10	2.47	9.81E-03

1417948_s_at	Ilf2	interleukin enhancer binding factor 2	67781	7.81	6.32	2.43	4.17E-03
1453622_s_at	Mllt3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	70122	8.19	7.25	2.42	9.71E-03
1420520_x_at	Eral1	Era (G-protein)-like 1 (E. coli)	57837	6.05	4.94	2.40	9.42E-03
1420911_a_at	Mfge8	milk fat globule-EGF factor 8 protein	17304	11.27	10.12	2.38	3.77E-04
1416268_at	Ets2	E26 avian leukemia oncogene 2, 3' domain	23872	11.22	9.96	2.37	6.31E-03
1423816_at	Cxx1a	CAAX box 1 homolog A (human)	66158	7.87	6.58	2.37	4.30E-03
1434256_s_at	Cds2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	110911	8.98	7.48	2.34	4.43E-03
1433558_at	Dab2ip	disabled homolog 2 (Drosophila) interacting protein	69601	10.69	9.60	2.33	2.34E-03
1439539_at	Tram2	translocating chain-associating membrane protein 2	170829	8.33	7.12	2.32	5.39E-03
1437100_x_at	Pim3	proviral integration site 3	223775	12.87	11.53	2.31	4.47E-03
1451069_at	Pim3	proviral integration site 3	223775	8.10	6.59	2.30	9.48E-03
1426825_at	Fmnl3	formin-like 3	22379	8.62	7.46	2.29	2.68E-03
1424427_at	Tada1l	transcriptional adaptor 1 (HF11 homolog, yeast) like	27878	6.45	5.36	2.28	1.25E-03
1452836_at	Lpin2	lipin 2	64898	9.36	7.88	2.27	8.05E-03
1428452_at	2810025M15Rik	RIKEN cDNA 2810025M15 gene	69953	9.43	8.03	2.25	6.50E-03
1450786_x_at	Pdlim5	PDZ and LIM domain 5	56376	9.44	8.34	2.21	8.24E-03
1449666_at	Atrnl1	Attractin like 1	226255	8.23	7.15	2.21	3.10E-04
1434555_at	Anp32a	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	11737	8.70	7.43	2.20	4.12E-03
1436698_x_at	Tmem204	transmembrane protein 204	407831	11.91	10.86	2.20	4.57E-04
1448063_at	Iqsec2	IQ motif and Sec7 domain 2	245666	6.59	5.66	2.18	9.50E-03
1422910_s_at	Smc6	structural maintenance of chromosomes 6	67241	9.27	8.26	2.18	6.78E-03
1456200_at	Ipmk	inositol polyphosphate multikinase	69718	7.76	6.50	2.17	3.86E-04
1416324_s_at	Kctd20	potassium channel tetramerisation domain containing 20	66989	7.99	7.15	2.16	5.75E-03
1443966_at	---	---	---	9.98	8.81	2.16	2.78E-03
1429399_at	Rnf125	ring finger protein 125	67664	10.29	9.29	2.16	1.55E-03
1434285_at	Frm4a	FERM domain containing 4A	209630	9.28	8.32	2.15	4.95E-03
1425742_a_at	Tsc22d1	TSC22 domain family, member 1	21807	12.54	11.39	2.12	2.33E-04
1445597_s_at	Hrasl3	HRAS like suppressor 3	225845	8.87	7.69	2.11	4.60E-03
1438230_at	Pggt1b	protein geranylgeranyltransferase type I, beta subunit	225467	8.45	7.49	2.10	2.16E-03
1428938_at	Gnaq	guanine nucleotide binding protein, alpha q polypeptide	14682	7.74	6.39	2.08	9.38E-03
1426578_s_at	Snapin	SNAP-associated protein	20615	8.11	7.04	2.07	7.57E-03
1422879_at	Sypl	synaptophysin-like protein	19027	9.51	8.50	2.07	3.43E-03
1419659_s_at	Chic2	cysteine-rich hydrophobic domain 2	74277	8.64	7.66	2.06	5.67E-03
1416373_at	Nfs1	nitrogen fixation gene 1 (S. cerevisiae)	18041	5.59	4.51	2.04	7.80E-03
1451979_at	Kras	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	16653	9.93	8.89	2.04	6.68E-03
1437734_at	Ppp1r12a	protein phosphatase 1, regulatory (inhibitor) subunit 12A	17931	8.65	7.55	2.03	7.86E-03
1450981_at	Cnn2	calponin 2	12798	8.97	7.92	2.03	1.57E-03
1418186_at	Gstt1	glutathione S-transferase, theta 1	14871	6.28	5.28	2.02	2.96E-04
1422047_at	Cdh5	cadherin 5	12562	12.48	11.30	2.02	7.65E-03
1448525_a_at	Bnip3l	BCL2/adenovirus E1B interacting protein 3-like	12177	9.29	8.23	2.01	1.87E-03
1423319_at	Hhex	hematopoietically expressed homeobox	15242	8.79	7.67	2.01	6.60E-04