Supplementary materials

Mouse Aorta Smooth Muscle Cells Differentiate Into *Lymphoid Tissue Organizer-like* Cells Upon Combined TNFR1/LTβR NF-κB Signaling

Lötzer et al.

Assays. *qRT-PCR*. qRT-PCR was performed as described using primers as reported in the supplement[1]. Forward and reverse primers were:

Actb, 5´GCTCCATCCTGGCCTCACTGT, 3´GAAAGGGTGTAAAACGCAGCTCA (136 bp);
Ccl21, 5´ATCCCGGCAATCCTGTTCTT, 3´AGTTCTCTTGCAGCCCTTGG (201 bp);
Cxcl13, 5´TCCTGGGAAGCTGGTGCAATG, 3´TCATCAGGGTCACAGTGCAAAGG (216 bp);
Ccl2, 5'CAGCACCAGCACCAGCCAAC, 3'CAGCTTCTTTGGGACACCTGCTG (245 bp);
Cx3cl1, 5'CAGATGGCTTCCCCTGTGTTCT, 3'AAGGTGAGTCCTTGGCGTGAAC (269 bp);
Cxcl10, 5'TCCATCACTCCCCTTTACCCAGT, 3'CGTCGCACCTCCACATAGCTTA (238 bp);
Cxcl13, 5'TCCTGGGAAGCTGGTGCAATG, 3'TCATCAGGGTCACAGTGCAAAGG (216 bp);
Cxcl16, 5'AGAATTGGCTGGATGTCGGCTA, 3'GGGTGCCAGAAGAAATGGTACG (195 bp);
Ccl19, 5'CCCATCCCTGGGAACATCGTG, 3'CACAGGGCTCCTTCTGGTGCTG (201 bp);
Vcam1, 5'ACACCATCCGCCAGGCACAG, 3'TCCCGATGGCAGGTATTACCAAGG (186 bp).

Actb served as the internal control. *EMSA, Western blotting.* For EMSA or Western blot analyses preparation of nuclear extracts and EMSAs were essentially performed as described [2]. Briefly, whole-cell extracts were prepared by lysis of SMCs in Laemmli buffer. For Western blotting proteins were separated by 10% SDS-PAGE and transferred onto PVDF membranes. Membranes were blocked and incubated with antibodies against p100/p52, RelA, RelB, IκBα, actin, and polymerase II (Santa Cruz Biotechnology). Immunoreactive bands were visualized by ECL (GE Healthcare). *Migration assay*. Migration of total splenocytes was performed by Guo et al. [2]. In brief, 10^6 blood cell-depleted spleen cells in 100 µl of DMEM-F12, 1 % FCS were loaded into the upper chamber of Transwell 24-plates, 6,5 mm diameter (Corning Costar Corp.). The bottom chamber was loaded with 600 µl of SMC supernatants as described in Methods and Figure legends. After 3 h at 37^o C, cells were harvested from the bottom chamber and counted, then stained with CD-19FITC (BD Pharmingen), CD11b-RPE (Mac1; Serotec) and CD3-APC (Serotec) for FACS analysis. B cells, T cells, and monocytes/macrophages/DCs were gated from the lymphocyte gate.

Microarray analyses. SMCs were stimulated for the indicated periods of time with agonists or a combination of both. Mouse whole genome 430 2.0 microarrays were prepared from mouse aorta SMCs cultured as described in Methods from total RNA (integrity determined bioanalyzer electrophoresis, Agilent Technologies) as described previously[1]. Microarray data (Fig.2; supplementary TableS2) were analyzed using Affymetrix Gene Chip Operating Software. Signal intensities were calculated from the raw data and scaled to an array trimmed mean of 500. All further steps were performed using R and Bioconductor as described by Gräbner et al. 2009[1]. Logarithmized signals were normalized across arrays using quantile normalization. Distinct filter criteria and statistical tests have been employed to obtain the results reported in Fig.2, Fig.S2, Fig.S3, and Fig.S5 as listed below. Fig.2: Data were filtered prior to statistical analyses to remove genes with low expression or without significant changes between control and agonist-stimulated groups for up-regulation or down-regulation. Up-regulation: Probe sets were included if in the combined agonist group (TNF + α-LTβR) a minimum of 2 arrays was called present (detection p value $P \leq 0.05$) and 2 or 3 arrays showed a log signal $\geq \log2(200)$. Recorded genes were required to be up-regulated from the control group to the combined agonist group with a fold change of at least log2 (2.0). Down-regulation: Probe sets were included if in the control group a minimum of 2 arrays was called

present (detection p value P≤0.05) and 2 or 3 arrays showed a log signal ≥log2(200). Recorded genes were required to be down-regulated from the control group to the combined agonist group with a foldchange of at least log2 (2.0). Using the data from the four experimental groups, the resulting up-list or down-list was subjected to a one-factor analysis of variance (ANOVA) with Benjamini and Hochberg correction for multiple testing. The resulting up-regulated probe set list contains 248 probe sets devided in TNF > α-LTβR (161 probe sets), α-LTβR > TNF (47 Probe sets) and TNF plus α-LTβR hyperinduction (40 probe sets); the resulting down-regulated probe set list contains 8 probe sets (Table SIII). Fig.S2: Regarding MA-plots probe sets were included if one of 2 arrays (TNF vs. control; α-LTβR vs. control) was called present (detection $P \leq 0.05$) with log signal ≥log2(200). Recorded probe sets were required to show a fold change of at least log2(2.0) (up-, down-regulation) (Table SI). Fig.S3: 3 separate filters were applied: TNF vs. control, LTßR vs. control, and TNF plus LTßR vs. control. For filtering probe sets were included if a minimum of 2 arrays was called present (detection $P \leq 0.05$) and 2 or 3 arrays showed a log signal ≥log2(200). Recorded probe sets were required to be up-regulated vs. control with a fold change of at least log2(2.0) and with $P \leq 0.05$ of Student t-Test with Benjamini and Hochberg correction for multiple testing (Table SII). Fig.S5: 2 separate filters were applied: SMC vs. control and EC vs. control. For filtering probe sets were included if a minimum of 2 arrays was called present (detection $P \leq 0.05$) and 2 or 3 arrays showed a log signal ≥log2(200). Recorded probe sets were required to be up-regulated vs. control with a fold change of at least log2(2.0) (Table SIV).

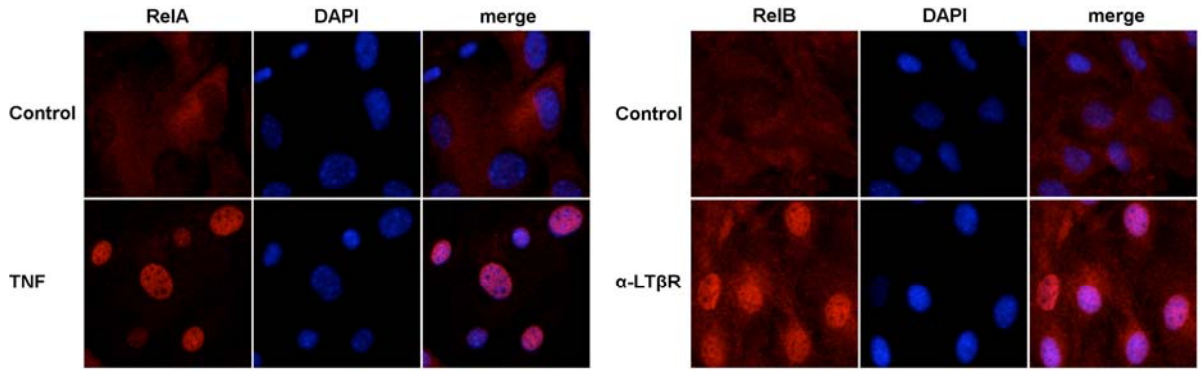

Fig.S1. RelA and RelB nuclear translocation by TNF and α-LTβR. SMCs were cultured and agonists were added as described in Fig.1. 24 h later, RelA and RelB fluorescence immunohistochemistry was analyzed as described previously using specific antisera (Santa Cruz Biotechnology).

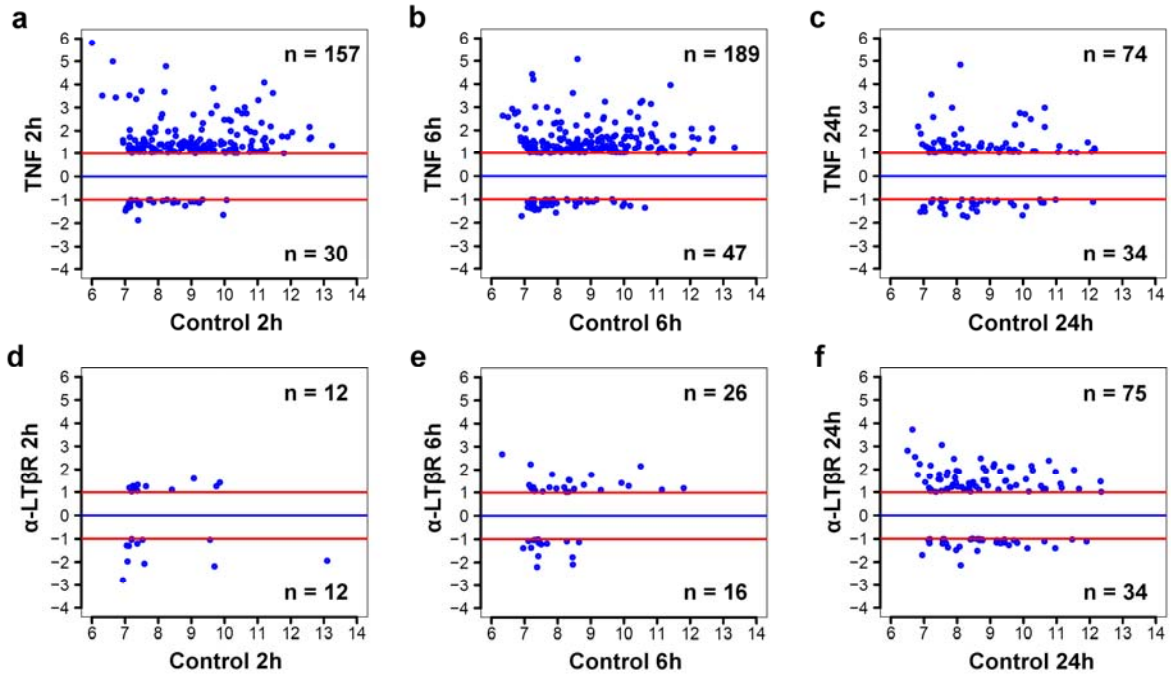

Fig.S2. TNF- and α-LTβR-induced mRNAs follow distinct kinetics. Microarrays were prepared after stimulation of SMCs with TNF (upper 3 MA plots) or α-LTβR (lower 3 MA plots) at 2h (**a,d**), 6h (**b,e**), and 24h (**c,f**). The number of up- and down-regulated probe sets is indicated and individual probe sets are shown in Table S1. X-axis: {log2(TNF or α-LTβR) + log2(control)}/2; Y-axis: log2(foldchange) of up- or down-regulation *versus* unstimulated SMCs.

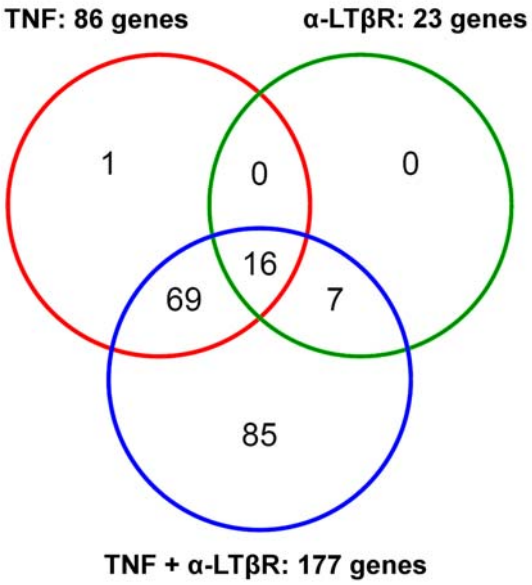

Fig.S3. SMC mRNAs induced by TNF, α-LTβR, and TNF + α-LTβR at 24h reveals transcription cross-talk and recruitment of newly induced genes. Cross-talk of TNF and α-LTβR-regulated genes show distinct and shared transcription patterns. Genes were annotated to probe sets with the highest signal intensity on the array; detection p value was set ≤0.05; expression level ≥200; foldchange 2fold; Student T-test P ≤0.05. TNF stimulated 86 genes; α-LTβR stimulated 23 genes, TNF + α-LTβR stimulated 177 genes.

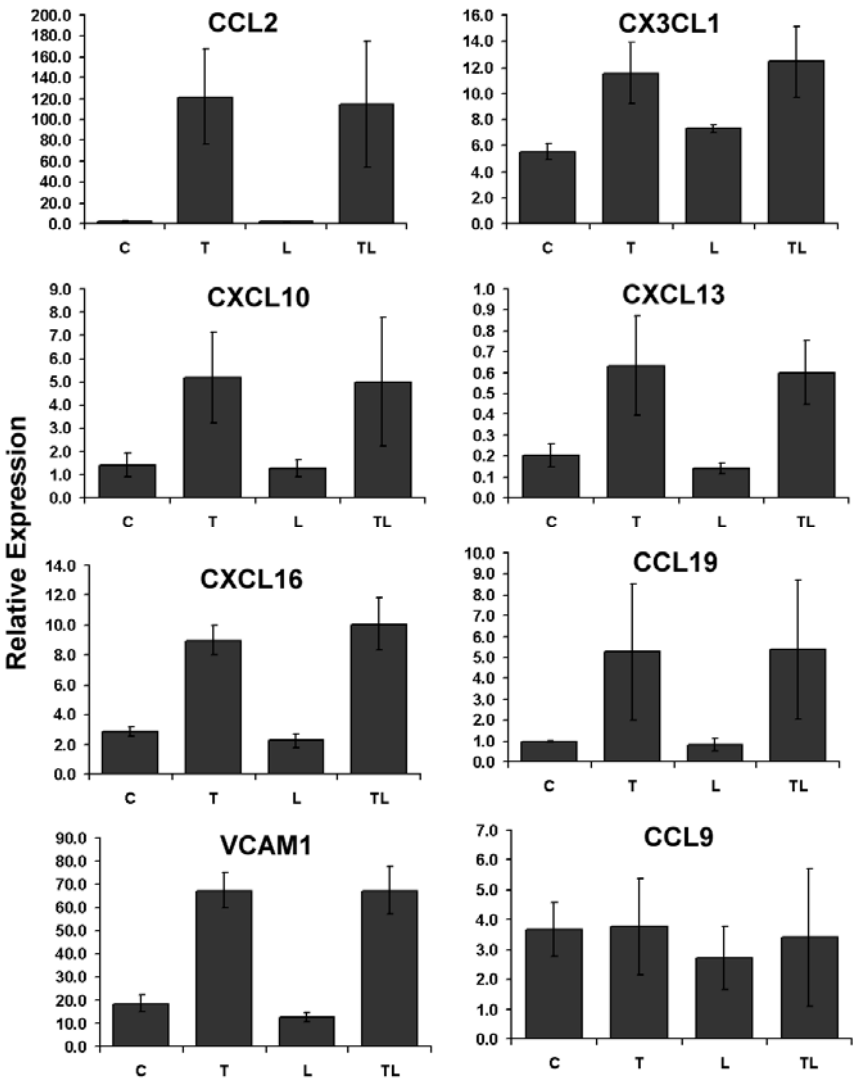

Fig.S4. SMCs of *ltbr*$^{-/-}$ mice fail to show hyperinduction of lymphorganogenic chemokines and VCAM-1. SMCs from *ltbr*$^{-/-}$ mice were prepared and stimulated with TNF, α-LTβR, or TNF + α-LTβR as described in Fig. 1. 24 hours later, qRT-PCR analyses were performed for mRNAs as indicated. Data represent means of three independent SMC preparations ± SEM. None of the measurements yielded a statistically significant difference between SMC receiving TNF or TNF + α-LTβR.

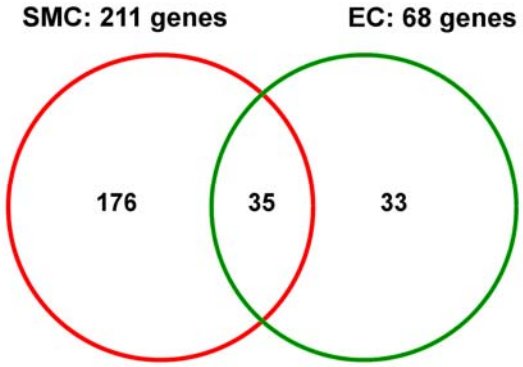

Fig.S5. Differential gene induction in aorta SMCs and aorta endothelial cells and 24 h after addition of TNF + α-LTβR. Aorta SMCs and aorta endothelial cells (ECs) were cultured and agonists added as described in Fig.1 and in Methods. Microarrays were prepared and differential gene induction in cells was determined as described in Methods.

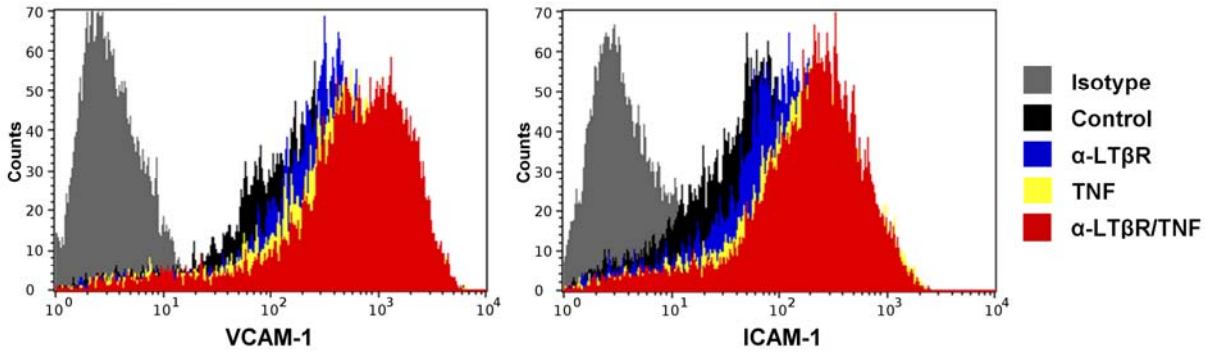

Fig.S6. VCAM-1 and ICAM-1 FACS analyses of cultured SMCs. SMCs were cultured and stimulated for 24 h with TNF (0,5 ng/ml), α-LTβR (1 µg/ml) or both as described in Fig. 1. SMCs were harvested and single cell suspension was resuspended in PBS containing FCS (5%) at a density of 10^5 cells/100 µl. Cells were incubated with FITC-conjugated antibodies against VCAM-1, ICAM-1 (both from eBioscience), or isotype control antibodies (rat IgG2a and IgG2b; Pharmingen) for 30 min at 4°C, washed twice and analyzed on a FACSCalibur (BD). Left: Expression of VCAM-1; right: ICAM-1. Mean fluorescence intensities for VCAM-1 were: Control 435, TNF 796, α-LTβR 562, TNF + α-LTβR 941; for ICAM-1: Control 86, TNF 270, α-LTβR 159, TNF + α-LTβR 290. Each histogram represents data of 10^4 cells.

Table SI. TNF- and α-LTβR-regulated probe sets at 2, 6, and 24h. Microarrays were prepared as described in Fig. S2 and regulated probe sets were determined as described in Methods. Gene symbols and gene names are indicated for ease of reading. (**a**) TNF at 2h; (**b**) TNF at 6h; (**c**) TNF at 24h; (**d**) α-LTβR at 2h; (**e**) α-LTβR at 6h; (**f**) α-LTβR at 24h.

Table SI.a. TNF-regulated probe sets at 2h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1422029_at	Ccl20	chemokine (C-C motif) ligand 20	20297	9	478	55.83
1447927_at	Mpa2l	macrophage activation 2 like	100702	18	559	31.76
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	57	1580	27.55
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	573	9696	16.92
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	216	3070	14.21
1426063_a_at	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	14579	50	653	13.09
1431843_a_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	82	1042	12.76
1421712_at	Sele	selectin, endothelial cell	20339	802	9930	12.37
1438796_at	Nr4a3	nuclear receptor subfamily 4, group A, member 3	18124	41	476	11.51
1438676_at	Mpa2l	macrophage activation 2 like	100702	23	268	11.42
1419534_at	Olr1	oxidized low density lipoprotein (lectin-like) receptor 1	108078	32	346	10.78
1449984_at	Cxcl2	chemokine (C-X-C motif) ligand 2	20310	50	518	10.29
1438855_x_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	660	6560	9.94
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	300	2521	8.39
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	554	4448	8.03
1419132_at	Tlr2	toll-like receptor 2	24088	495	3636	7.34
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	627	4197	6.69
1416273_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	302	2014	6.68
1452418_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	573	3820	6.67
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	109	712	6.54
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	211	1359	6.45
1450004_at	Tslp	thymic stromal lymphopoietin	53603	112	653	5.82
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	475	2641	5.56
1418240_at	Gbp2	guanylate nucleotide binding protein 2	14469	434	2393	5.52
1453228_at	Stx11	syntaxin 11	74732	507	2711	5.35

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1453238_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	990	5006	5.05
1449009_at	Tgtp	T-cell specific GTPase	21822	292	1464	5.02
1448306_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	1276	5737	4.50
1415989_at	Vcam1	vascular cell adhesion molecule 1	22329	2873	12892	4.49
1436002_at	C230013L11Rik	RIKEN cDNA C230013L11 gene	319712	115	505	4.41
1421236_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	787	3348	4.25
1457780_at	Stx11	syntaxin 11	74732	313	1285	4.10
1449227_at	Ch25h	cholesterol 25-hydroxylase	12642	70	286	4.10
1425761_a_at	Nfatc1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	18018	181	736	4.06
1435137_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	589	2329	3.95
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	893	3477	3.90
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	160	623	3.89
1430752_at	C330006D17Rik	RIKEN cDNA C330006D17 gene	77616	123	472	3.84
1427736_a_at	Ccrl2	chemokine (C-C motif) receptor-like 2	54199	109	415	3.82
1449731_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	2169	8235	3.80
1455197_at	Rnd1	Rho family GTPase 1	223881	998	3781	3.79
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	114	418	3.66
1425837_a_at	Ccrn4l	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	12457	708	2501	3.53
1456126_at	Malt1	mucosa associated lymphoid tissue lymphoma translocation gene 1	240354	200	685	3.42
1450173_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	1869	6261	3.35
1451314_a_at	Vcam1	vascular cell adhesion molecule 1	22329	2099	6992	3.33
1447084_at	Nfatc1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	18018	78	257	3.30
1424067_at	Icam1	intercellular adhesion molecule	15894	3474	11364	3.27
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	285	927	3.25
1457644_s_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1337	4282	3.20
1438157_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	3447	10756	3.12
1438027_at	5830443L24Rik	RIKEN cDNA 5830443L24 gene	76074	107	334	3.11

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1454884_at	Zbtb46	zinc finger and BTB domain containing 46	72147	351	1078	3.07
1460231_at	Irf5	interferon regulatory factor 5	27056	128	392	3.06
1419208_at	Map3k8	mitogen activated protein kinase kinase kinase 8	26410	71	213	3.02
1438658_a_at	Edg3	endothelial differentiation, sphingolipid G-protein-coupled receptor, 3	13610	91	273	3.01
1427932_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	1328	3970	2.99
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	1066	3124	2.93
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	557	1627	2.92
1454857_at	Rnf122	ring finger protein 122	68867	113	330	2.92
1450297_at	Il6	interleukin 6	16193	258	747	2.89
1419209_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1631	4704	2.88
1418580_at	Rtp4	receptor transporter protein 4	67775	442	1267	2.87
1458455_at	Abra	actin-binding Rho activating protein	223513	345	982	2.85
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	111	316	2.84
1422742_at	Hivep1	human immunodeficiency virus type I enhancer binding protein 1	110521	695	1953	2.81
1427747_a_at	Lcn2	lipocalin 2	16819	289	805	2.79
1420089_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	250	695	2.78
1434380_at	Gbp6	guanylate binding protein 6	229900	308	853	2.77
1450672_a_at	Trex1	three prime repair exonuclease 1	22040	207	574	2.77
1450165_at	Slfn2	schlafen 2	20556	74	205	2.77
1434432_at	Rffl	ring finger and FYVE like domain containing protein	67338	613	1664	2.72
1434322_at	Micall2	MICAL-like 2	231830	278	747	2.69
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	55932	330	889	2.69
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	507	1347	2.66
1421207_at	Lif	leukemia inhibitory factor	16878	192	511	2.66
1457662_x_at	Tpk1	thiamine pyrophosphokinase	29807	168	444	2.64
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	104	274	2.63
1417621_at	Nfatc1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	18018	440	1157	2.63
1439965_at				246	645	2.62
1418421_at	Bcl6b	B-cell CLL/lymphoma 6, member B	12029	314	823	2.62
1436329_at	Egr3	early growth response 3	13655	587	1534	2.61
1422573_at	Ampd3	AMP deaminase 3	11717	163	426	2.61
1419714_at	Cd274	CD274 antigen	60533	87	226	2.61

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1456572_x_at	Cct4	chaperonin subunit 4 (delta)	12464	129	335	2.60
1448436_a_at	Irf1	interferon regulatory factor 1	16362	788	2037	2.59
1458802_at	Hivep3	human immunodeficiency virus type I enhancer binding protein 3	16656	1498	3868	2.58
1417045_at	Bid	BH3 interacting domain death agonist	12122	417	1069	2.56
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	6112	15560	2.55
1440831_at	Bach1	BTB and CNC homology 1	12013	1118	2832	2.53
1432478_a_at	Ibrdc3	IBR domain containing 3	75234	295	742	2.51
1418077_at	Trim21	tripartite motif protein 21	20821	209	521	2.49
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	363	899	2.48
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	949	2341	2.47
1448940_at	Trim21	tripartite motif protein 21	20821	340	835	2.45
1429549_at	Col27a1	procollagen, type XXVII, alpha 1	373864	187	458	2.45
1434762_at	Tmem142b	transmembrane protein 142B	269717	208	508	2.44
1429005_at	Mfhas1	malignant fibrous histiocytoma amplified sequence 1	52065	796	1935	2.43
1455271_at	LOC620695	hypothetical protein LOC620695	620695	266	646	2.43
1422397_a_at	Il15ra	interleukin 15 receptor, alpha chain	16169	143	346	2.42
1451340_at	Arid5a	AT rich interactive domain 5A (Mrf1 like)	214855	317	767	2.42
1427683_at	Egr2	early growth response 2	13654	121	292	2.41
1453101_at	Klhl25	kelch-like 25 (Drosophila)	207952	417	997	2.39
1457167_at	Med14	mediator complex subunit 14	26896	89	212	2.37
1428479_at	Nfatc1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	18018	494	1167	2.36
1416725_at	Tcf4	transcription factor 4	21413	99	233	2.35
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	487	1139	2.34
1436196_at	C030046G05	hypothetical protein C030046G05	327885	275	643	2.34
1419043_a_at	Iigp1	interferon inducible GTPase 1	60440	416	966	2.32
1428396_at	Smurf1	SMAD specific E3 ubiquitin protein ligase 1	75788	155	358	2.32
1447085_s_at	Nfatc1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	18018	118	272	2.31
1416129_at	Errfi1	ERBB receptor feedback inhibitor 1	74155	851	1966	2.31
1436555_at	Slc7a2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	11988	1177	2710	2.30
1418666_at	Ptx3	pentraxin related gene	19288	1625	3738	2.3
1449028_at	Rhou	ras homolog gene family, member U	69581	276	635	2.3
1424194_at	Rcsd1	RCSD domain containing 1	226594	482	1100	2.28

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1434433_x_at	Wdr61	WD repeat domain 61	66317	93	212	2.28
1435226_at	Ibrdc3	IBR domain containing 3	75234	369	838	2.27
1417487_at	Fosl1	fos-like antigen 1	14283	405	913	2.26
1437490_x_at	Uap1	UDP-N-acetylglucosamine pyrophosphorylase 1	107652	756	1703	2.25
1420591_at	Gpr84	G protein-coupled receptor 84	80910	97	218	2.24
1426501_a_at	T2bp	Traf2 binding protein	211550	373	834	2.24
1457404_at	Nfkbiz	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	80859	164	365	2.23
1446850_at	Ppap2b	phosphatidic acid phosphatase type 2B	67916	111	247	2.22
1435015_at	Zfp787	zinc finger protein 787	67109	118	261	2.21
1431035_at	Daam1	dishevelled associated activator of morphogenesis 1	208846	165	362	2.20
1429692_s_at	Gch1	GTP cyclohydrolase 1	14528	556	1222	2.20
1431874_at	4931429L15Rik	RIKEN cDNA 4931429L15 gene	74361	116	253	2.17
1427689_a_at	Tnip1	TNFAIP3 interacting protein 1	57783	1617	3509	2.17
1460251_at	Fas	Fas (TNF receptor superfamily member)	14102	1490	3233	2.17
1448898_at	Ccl9	chemokine (C-C motif) ligand 9	20308	341	739	2.17
1424942_a_at	Myc	myelocytomatosis oncogene	17869	541	1167	2.16
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1632	3507	2.15
1452163_at	Ets1	E26 avian leukemia oncogene 1, 5' domain	23871	1303	2797	2.15
1460462_at	Med18	mediator of RNA polymerase II transcription, subunit 18 homolog (yeast)	67219	246	525	2.14
1455678_at	Sema4b	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B	20352	225	480	2.14
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	692	1477	2.14
1456981_at	Tmc7	transmembrane channel-like gene family 7	209760	96	204	2.13
1419816_s_at	Errfi1	ERBB receptor feedback inhibitor 1	74155	548	1160	2.12
1449168_a_at	Akap2	A kinase (PRKA) anchor protein 2	11641	464	981	2.12
1456212_x_at	Socs3	suppressor of cytokine signaling 3	12702	424	893	2.11
1418825_at	Irgm	immunity-related GTPase family, M	15944	1395	2920	2.09
1420275_at				185	387	2.09
1447838_x_at	Eml4	echinoderm microtubule associated protein like 4	78798	120	251	2.08
1433453_a_at	Abtb2	ankyrin repeat and BTB (POZ) domain containing 2	99382	1204	2506	2.08
1432712_at	4933425M03Rik	RIKEN cDNA 4933425M03 gene	71190	164	342	2.08
1438097_at	Rab20	RAB20, member RAS oncogene family	19332	132	274	2.08
1417483_at	Nfkbiz	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	80859	729	1508	2.07

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1434763_at	Tmem142b	transmembrane protein 142B	269717	274	566	2.06
1424392_at	Adhfe1	alcohol dehydrogenase, iron containing, 1	76187	155	320	2.06
1455034_at	Nr4a2	nuclear receptor subfamily 4, group A, member 2	18227	219	447	2.04
1457146_at	Dock4	dedicator of cytokinesis 4	238130	103	210	2.03
1418401_a_at	Dusp16	dual specificity phosphatase 16	70686	943	1908	2.02
1422612_at	Hk2	hexokinase 2	15277	888	1796	2.02
1438081_at	Mcc	mutated in colorectal cancers	328949	737	1485	2.01
1450295_s_at	Pvr	poliovirus receptor	52118	392	789	2.01
1416067_at	Ifrd1	interferon-related developmental regulator 1	15982	2511	5047	2.01
1457980_x_at	Uck2	uridine-cytidine kinase 2	80914	918	458	-2.00
1457966_at	Fbxl7	F-box and leucine-rich repeat protein 7	448987	309	154	-2.00
1424797_a_at	Pitx2	paired-like homeodomain transcription factor 2	18741	437	218	-2.01
1439076_at	Dhx29	DEAH (Asp-Glu-Ala-His) box polypeptide 29	218629	206	102	-2.03
1453586_at	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	12495	299	147	-2.03
1422537_a_at	Id2	inhibitor of DNA binding 2	15902	1532	755	-2.03
1437507_at	Gatad2b	GATA zinc finger domain containing 2B	229542	511	251	-2.04
1427862_at	Arl6ip3	ADP-ribosylation factor-like 6 interacting protein 3	65104	210	103	-2.04
1453064_at	Etaa1	Ewing's tumor-associated antigen 1	68145	233	114	-2.04
1433801_at	9930012K11Rik	RIKEN cDNA 9930012K11 gene	268759	404	195	-2.07
1435279_at	BC059842	cDNA sequence BC059842	230676	207	98	-2.11
1451538_at	Sox9	SRY-box containing gene 9	20682	790	374	-2.11
1449863_a_at	Dlx5	distal-less homeobox 5	13395	738	349	-2.11
1452249_at	Prickle1	prickle like 1 (Drosophila)	106042	563	263	-2.14
1439477_at	5430406J06Rik	RIKEN cDNA 5430406J06 gene	73848	340	158	-2.16
1433691_at	Ppp1r3c	protein phosphatase 1, regulatory (inhibitor) subunit 3C	53412	893	408	-2.19
1425631_at	Ppp1r3c	protein phosphatase 1, regulatory (inhibitor) subunit 3C	53412	519	236	-2.20
1416797_at	Nck2	non-catalytic region of tyrosine kinase adaptor protein 2	17974	206	94	-2.20
1444777_at	Rai14	retinoic acid induced 14	75646	261	117	-2.23
1436590_at	Ppp1r3b	protein phosphatase 1, regulatory (inhibitor) subunit 3B	244416	214	95	-2.25
1433462_a_at	Pi4k2a	phosphatidylinositol 4-kinase type 2 alpha	84095	256	112	-2.29
1433792_at	Nrip2	nuclear receptor interacting protein 2	60345	267	115	-2.33
1425099_a_at	Arntl	aryl hydrocarbon receptor nuclear translocator-like	11865	699	291	-2.40
1436187_at	1110054M08Rik	RIKEN cDNA 1110054M08 gene	68841	212	88	-2.40

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1427560_at	Six5	sine oculis-related homeobox 5 homolog (Drosophila)	20475	223	90	-2.47
1417154_at	Slc25a14	solute carrier family 25 (mitochondrial carrier, brain), member 14	20523	218	86	-2.54
1439352_at	Trim7	tripartite motif protein 7	94089	211	82	-2.57
1426995_a_at	Gfer	growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration)	11692	215	77	-2.78
1454791_a_at	Rbbp4	retinoblastoma binding protein 4	19646	1771	567	-3.13
1438406_at	Scarf2	scavenger receptor class F, member 2	224024	321	88	-3.66

Table SI.b. TNF-regulated probe sets at 6h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	67	2252	33.57
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	32	695	21.45
1447927_at	Mpa2l	macrophage activation 2 like	100702	36	656	18.26
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	692	10658	15.41
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	101	1224	12.17
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	486	4659	9.59
1449009_at	Tgtp	T-cell specific GTPase	21822	225	2116	9.39
1418240_at	Gbp2	guanylate nucleotide binding protein 2	14469	479	4374	9.13
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	610	5345	8.76
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	57	453	7.98
1448881_at	Hp	haptoglobin	15439	73	575	7.91
1450484_a_at	Tyki	thymidylate kinase family LPS-inducible member	22169	36	271	7.55
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	97	688	7.12
1438676_at	Mpa2l	macrophage activation 2 like	100702	42	292	6.91
1419132_at	Tlr2	toll-like receptor 2	24088	447	3051	6.82
1436058_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	41	269	6.58
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	190	1190	6.27
1434015_at	Slc2a6	solute carrier family 2 (facilitated glucose transporter), member 6	227659	33	201	6.16
1450783_at	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	15957	277	1644	5.95
1449984_at	Cxcl2	chemokine (C-X-C motif) ligand 2	20310	37	220	5.92
1452418_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	565	3324	5.89
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	281	1564	5.57
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	377	1913	5.08
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	123	617	5.03
1450004_at	Tslp	thymic stromal lymphopoietin	53603	111	558	5.01
1438027_at	5830443L24Rik	RIKEN cDNA 5830443L24 gene	76074	79	395	4.98
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	107	522	4.86
1453238_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	897	4341	4.84
1436002_at	C230013L11Rik	RIKEN cDNA C230013L11 gene	319712	175	811	4.64
1449227_at	Ch25h	cholesterol 25-hydroxylase	12642	52	236	4.56

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1415989_at	Vcam1	vascular cell adhesion molecule 1	22329	3149	13285	4.22
1451314_a_at	Vcam1	vascular cell adhesion molecule 1	22329	2072	8666	4.18
1431843_a_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	131	544	4.15
1421074_at	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	13123	64	266	4.15
1419042_at	Iigp1	interferon inducible GTPase 1	60440	301	1246	4.13
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	723	2935	4.06
1418580_at	Rtp4	receptor transporter protein 4	67775	547	2206	4.03
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	581	2332	4.01
1427747_a_at	Lcn2	lipocalin 2	16819	293	1146	3.91
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	243	931	3.84
1460197_a_at	Steap4	STEAP family member 4	117167	155	585	3.78
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	961	3451	3.59
1421712_at	Sele	selectin, endothelial cell	20339	792	2826	3.57
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	461	1594	3.46
1423017_a_at	Il1rn	interleukin 1 receptor antagonist	16181	121	417	3.45
1448306_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	1543	5317	3.45
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	281	952	3.39
1419043_a_at	Iigp1	interferon inducible GTPase 1	60440	587	1956	3.33
1435137_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	653	2167	3.32
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	55932	454	1501	3.30
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	1025	3365	3.28
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	397	1301	3.28
1449731_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	2379	7723	3.25
1448898_at	Ccl9	chemokine (C-C motif) ligand 9	20308	356	1156	3.25
1435640_x_at	A130040M12Rik	RIKEN cDNA A130040M12 gene	319269	66	211	3.20
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	742	2368	3.19
1424067_at	Icam1	intercellular adhesion molecule	15894	3717	11749	3.16
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	163	512	3.13
1419082_at	Serpinb2	serine (or cysteine) peptidase inhibitor, clade B, member 2	18788	74	231	3.12

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1426324_at	H2-D1	histocompatibility 2, D region locus 1	14964	152	472	3.11
1428942_at	Mt2	metallothionein 2	17750	2757	8575	3.11
1438855_x_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	586	1821	3.11
1438037_at	Herc5	hect domain and RLD 5	67138	221	683	3.09
1417045_at	Bid	BH3 interacting domain death agonist	12122	343	1052	3.07
1453228_at	Stx11	syntaxin 11	74732	430	1312	3.06
1451567_a_at	Ifi203	interferon activated gene 203	15950	159	471	2.97
1451798_at	Il1rn	interleukin 1 receptor antagonist	16181	225	665	2.96
1418191_at	Usp18	ubiquitin specific peptidase 18	24110	271	791	2.92
1438157_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	3792	11076	2.92
1438658_a_at	Edg3	endothelial differentiation, sphingolipid G-protein-coupled receptor, 3	13610	110	321	2.92
1425394_at	BC023105	cDNA sequence BC023105	207269	69	202	2.92
1437578_at	Clca2	chloride channel calcium activated 2	80797	90	262	2.90
1427932_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	1187	3426	2.89
1415804_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	382	1099	2.88
1443990_at	Ntrk1	neurotrophic tyrosine kinase, receptor, type 1	18211	79	227	2.87
1417429_at	Fmo1	flavin containing monooxygenase 1	14261	192	547	2.85
1447664_x_at	AA986860	expressed sequence AA986860	212439	109	312	2.85
1434380_at	Gbp6	guanylate binding protein 6	229900	352	994	2.83
1456572_x_at	Cct4	chaperonin subunit 4 (delta)	12464	192	539	2.81
1417141_at	Igtp	interferon gamma induced GTPase	16145	309	868	2.81
1421075_s_at	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	13123	76	212	2.77
1451544_at	Tapbpl	TAP binding protein-like	213233	225	621	2.75
1448550_at	Lbp	lipopolysaccharide binding protein	16803	83	229	2.74
1457780_at	Stx11	syntaxin 11	74732	279	763	2.73
1420089_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	272	744	2.73
1421236_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	851	2300	2.70
1423954_at	C3	complement component 3	12266	490	1321	2.70
1423125_at	Dclk1	doublecortin-like kinase 1	13175	97	262	2.69
1440721_at	5930433N17Rik	RIKEN cDNA 5930433N17 gene	399623	90	242	2.69
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	596	1580	2.65

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1431008_at	0610037M15Rik	RIKEN cDNA 0610037M15 gene	68395	127	336	2.65
1439965_at				319	834	2.61
1435940_at	AI836758	expressed sequence AI836758	99719	214	554	2.59
1426063_a_at	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	14579	81	204	2.54
1453913_a_at	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	21355	262	661	2.53
1431591_s_at	LOC677168	similar to ISG15 ubiquitin-like modifier	677168	451	1130	2.51
1443536_at	Slc7a11	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11	26570	135	335	2.49
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	704	1753	2.49
1419714_at	Cd274	CD274 antigen	60533	88	219	2.48
1456291_x_at	Scx	scleraxis	20289	147	366	2.48
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	704	1739	2.47
1419209_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1791	4418	2.47
1454976_at	Sod2	superoxide dismutase 2, mitochondrial	20656	415	1020	2.46
1454974_at	Ntn1	netrin 1	18208	162	398	2.45
1419463_at	Clca2	chloride channel calcium activated 2	80797	676	1651	2.44
1420183_at	Lor	loricrin	16939	121	296	2.44
1418872_at	Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	18669	256	624	2.44
1416296_at	Il2rg	interleukin 2 receptor, gamma chain	16186	228	556	2.44
1455500_at	Rnf213	ring finger protein 213	629974	884	2152	2.43
1452348_s_at	Ifi205	interferon activated gene 205	226695	546	1320	2.42
1450173_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	1846	4466	2.42
1455981_at	Rps6	ribosomal protein S6	20104	1161	2790	2.40
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	95	229	2.40
1424948_x_at	H2-K1	histocompatibility 2, K1, K region	14972	324	778	2.40
1417793_at	Iigp2	interferon inducible GTPase 2	54396	327	783	2.40
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	6739	15985	2.37
1417961_a_at	Trim30	tripartite motif protein 30	20128	468	1104	2.36
1423091_a_at	Gpm6b	glycoprotein m6b	14758	378	889	2.35
1457644_s_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1474	3467	2.35
1453757_at	Herc5	hect domain and RLD 5	67138	88	207	2.35

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1117	2624	2.35
1447873_x_at	Bid	BH3 interacting domain death agonist	12122	104	243	2.35
1450297_at	Il6	interleukin 6	16193	248	582	2.34
1420591_at	Gpr84	G protein-coupled receptor 84	80910	104	243	2.34
1435929_at	9630033F20Rik	RIKEN cDNA 9630033F20 gene	319801	98	227	2.33
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	526	1220	2.32
1455275_at	E530001K10Rik	RIKEN cDNA E530001K10 gene	414123	177	409	2.31
1449195_s_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	446	1030	2.31
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	855	1965	2.30
1450534_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	206	473	2.30
1428909_at	A130040M12Rik	RIKEN cDNA A130040M12 gene	319269	701	1606	2.29
1457455_at	Suhw4	suppressor of hairy wing homolog 4 (Drosophila)	235469	101	232	2.29
1456890_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	254	579	2.28
1427689_a_at	Tnip1	TNFAIP3 interacting protein 1	57783	1436	3255	2.27
1418077_at	Trim21	tripartite motif protein 21	20821	205	464	2.26
1433125_at	5330422M15Rik	RIKEN cDNA 5330422M15 gene	77062	91	206	2.25
1448833_at	Foxm1	forkhead box M1	14235	359	808	2.25
1422781_at	Tlr3	toll-like receptor 3	142980	243	546	2.25
1415899_at	Junb	Jun-B oncogene	16477	432	960	2.22
1423555_a_at	Ifi44	interferon-induced protein 44	99899	356	790	2.22
1449265_at	Casp1	caspase 1	12362	238	525	2.20
1418293_at	Ifit2	interferon-induced protein with tetratricopeptide repeats 2	15958	285	628	2.20
1434129_s_at	Lhfpl2	lipoma HMGIC fusion partner-like 2	218454	191	419	2.20
1427771_x_at	Itgb1	integrin beta 1 (fibronectin receptor beta)	16412	2980	6530	2.19
1446941_at	C78505	expressed sequence C78505	98146	107	234	2.19
1424392_at	Adhfe1	alcohol dehydrogenase, iron containing, 1	76187	136	298	2.18
1416897_at	Parp9	poly (ADP-ribose) polymerase family, member 9	80285	530	1157	2.18
1425663_at	Il1rn	interleukin 1 receptor antagonist	16181	138	301	2.17
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	588	1276	2.17
1442186_at	A430107N12Rik	RIKEN cDNA A430107N12 gene	78432	108	234	2.17
1446615_at	Shroom4	shroom family member 4	208431	102	220	2.16
1428579_at	Fmnl2	formin-like 2	71409	528	1138	2.15
1418666_at	Ptx3	pentraxin related gene	19288	1648	3533	2.14
1429128_x_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	170	363	2.14
1416273_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	287	614	2.14

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1425749_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	396	844	2.13
1418881_at	Efcbp2	EF hand calcium binding protein 2	117148	186	395	2.12
1447377_at	Gm428	gene model 428, (NCBI)	242502	244	516	2.12
1448795_a_at	Tbrg4	transforming growth factor beta regulated gene 4	21379	314	666	2.12
1456582_x_at	LOC637796	hypothetical protein LOC637796	637796	384	810	2.11
1429692_s_at	Gch1	GTP cyclohydrolase 1	14528	574	1208	2.10
1451860_a_at	Trim30	tripartite motif protein 30	20128	283	594	2.09
1417244_a_at	Irf7	interferon regulatory factor 7	54123	203	426	2.09
1418999_at	2310033P09Rik	RIKEN cDNA 2310033P09 gene	67862	210	439	2.09
1452840_at	1500009L16Rik	RIKEN cDNA 1500009L16 gene	69784	315	657	2.08
1452178_at	Plec1	plectin 1	18810	244	506	2.07
1425656_a_at	Baiap2	brain-specific angiogenesis inhibitor 1-associated protein 2	108100	144	298	2.07
1438716_at	AI451617	expressed sequence AI451617	209387	115	237	2.06
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	533	1098	2.06
1450454_at	Tor3a	torsin family 3, member A	30935	239	490	2.05
1439269_x_at	Mcm7	minichromosome maintenance deficient 7 (S. cerevisiae)	17220	563	1151	2.04
1433245_at	6720475M21Rik	RIKEN cDNA 6720475M21 gene	77896	109	222	2.04
1447766_x_at	Limd2	LIM domain containing 2	67803	166	340	2.04
1426906_at	Ifi205	interferon activated gene 205	226695	750	1528	2.04
1422742_at	Hivep1	human immunodeficiency virus type I enhancer binding protein 1	110521	611	1242	2.03
1437091_at	Accn4	amiloride-sensitive cation channel 4, pituitary	241118	116	237	2.03
1420276_x_at				282	574	2.03
1458667_at	4930519N13Rik	RIKEN cDNA 4930519N13 gene	78177	1465	2970	2.03
1446190_at	Dclk1	doublecortin-like kinase 1	13175	193	392	2.03
1450403_at	Stat2	signal transducer and activator of transcription 2	20847	283	572	2.02
1419217_at	Sergef	secretion regulating guanine nucleotide exchange factor	27414	101	204	2.02
1416016_at	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	21354	318	641	2.02
1421129_a_at	Atp2a3	ATPase, Ca++ transporting, ubiquitous	53313	129	260	2.02
1421594_a_at	Sytl2	synaptotagmin-like 2	83671	126	254	2.02
1455581_x_at	Samd9l	sterile alpha motif domain containing 9-like	209086	718	1449	2.02
1443698_at	Fbxo39	F-box protein 39	327959	667	1344	2.01
1447301_at	Akap5	A kinase (PRKA) anchor protein 5	238276	154	311	2.01

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2892	5795	2.00
1455678_at	Sema4b	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B	20352	127	255	2.00
1448700_at	G0s2	G0/G1 switch gene 2	14373	440	219	-2.01
1435776_at	2310009B15Rik	RIKEN cDNA 2310009B15 gene	69549	328	163	-2.01
1450243_a_at	Rcan2	regulator of calcineurin 2	53901	1135	565	-2.01
1449751_at	Slc6a6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	21366	280	139	-2.02
1429516_at	Ubr2	ubiquitin protein ligase E3 component n-recognin 2	224826	222	110	-2.02
1426237_at	Sp2	Sp2 transcription factor	78912	591	292	-2.02
1438232_at	Foxp2	forkhead box P2	114142	822	406	-2.03
1417019_a_at	Cdc6	cell division cycle 6 homolog (S. cerevisiae)	23834	211	104	-2.03
1431028_a_at	Pank1	pantothenate kinase 1	75735	210	103	-2.03
1428612_at	Atg7	autophagy-related 7 (yeast)	74244	675	331	-2.04
1436373_at	Map3k10	mitogen activated protein kinase kinase kinase 10	269881	292	143	-2.04
1457528_at	Slc4a7	solute carrier family 4, sodium bicarbonate cotransporter, member 7	218756	329	159	-2.06
1443354_at	Trim59	tripartite motif-containing 59	66949	285	138	-2.06
1460373_a_at	Setd4	SET domain containing 4	224440	277	134	-2.07
1419593_at	Greb1	gene regulated by estrogen in breast cancer protein	268527	315	152	-2.07
1445322_x_at	E430025E21Rik	RIKEN cDNA E430025E21 gene	223593	453	219	-2.07
1424022_at	Osgin1	oxidative stress induced growth inhibitor 1	71839	310	148	-2.09
1456569_x_at	Gsn	gelsolin	227753	322	154	-2.09
1434639_at	Klhl29	kelch-like 29 (Drosophila)	208439	537	255	-2.11
1431056_a_at	Lpl	lipoprotein lipase	16956	227	107	-2.12
1425698_a_at	Crebzf	CREB/ATF bZIP transcription factor	233490	295	137	-2.15
1450179_at	Sost	sclerostin	74499	790	368	-2.15
1426752_at	Phf17	PHD finger protein 17	269424	714	331	-2.16
1452292_at	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	71770	1221	566	-2.16
1443983_at	Sorbs1	sorbin and SH3 domain containing 1	20411	201	93	-2.16
1418294_at	Epb4.1l4b	erythrocyte protein band 4.1-like 4b	54357	603	278	-2.17
1452508_x_at	Ptms	parathymosin	69202	273	125	-2.19
1429463_at	Prkaa2	protein kinase, AMP-activated, alpha 2 catalytic subunit	108079	374	167	-2.24
1440227_at	BF642829	expressed sequence BF642829	503859	1551	686	-2.26

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1450337_a_at	Nek8	NIMA (never in mitosis gene a)-related expressed kinase 8	140859	236	100	-2.35
1416588_at	Ptprn	protein tyrosine phosphatase, receptor type, N	19275	350	147	-2.37
1440311_at	Sorbs1	sorbin and SH3 domain containing 1	20411	287	121	-2.38
1449363_at	Atf3	activating transcription factor 3	11910	317	132	-2.40
1453821_at	N6amt1	N-6 adenine-specific DNA methyltransferase 1 (putative)	67768	240	100	-2.40
1459865_x_at	Ces7	carboxylesterase 7	67935	1818	751	-2.42
1449350_at	Osr1	odd-skipped related 1 (Drosophila)	23967	1553	637	-2.44
1437669_x_at	Ccrl1	chemokine (C-C motif) receptor-like 1	252837	584	239	-2.44
1455582_at				235	95	-2.46
1420931_at	Mapk8	mitogen activated protein kinase 8	26419	247	100	-2.47
1420876_a_at	Sept6	septin 6	56526	218	86	-2.53
1437149_at	Slc6a6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	21366	2553	991	-2.58
1457257_x_at				240	91	-2.62
1447363_s_at	Bub1b	budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae)	12236	265	100	-2.66
1435672_at	3830612M24	hypothetical protein 3830612M24	330635	282	104	-2.71
1426139_a_at	Ccrl1	chemokine (C-C motif) receptor-like 1	252837	262	95	-2.75
1444240_at	Shank1	SH3/ankyrin domain gene 1	243961	425	144	-2.96
1420715_a_at	Pparg	peroxisome proliferator activated receptor gamma	19016	218	67	-3.27

Table SI.c. TNF-regulated probe sets at 24h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1448881_at	Hp	haptoglobin	15439	52	1471	28.40
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	44	514	11.66
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	576	4511	7.83
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	83	649	7.81
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	370	2490	6.73
1423954_at	C3	complement component 3	12266	419	2729	6.51
1437578_at	Clca2	chloride channel calcium activated 2	80797	64	380	5.90
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	507	2850	5.62
1427747_a_at	Lcn2	lipocalin 2	16819	397	1880	4.74
1449075_at	Exdl2	exonuclease 3"-5" domain-like 2	97827	54	241	4.47
1419463_at	Clca2	chloride channel calcium activated 2	80797	767	3374	4.40
1449711_at	Atp6v1e1	VATPase, H+ transporting, lysosomal V1 subunit E1	11973	137	573	4.18
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	63	228	3.62
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	129	457	3.54
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	103	309	3.00
1448550_at	Lbp	lipopolysaccharide binding protein	16803	112	330	2.93
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	112	313	2.79
1451314_a_at	Vcam1	vascular cell adhesion molecule 1	22329	2379	6633	2.79
1435690_at	2310008H09Rik	RIKEN cDNA 2310008H09 gene	66356	96	264	2.76
1424948_x_at	H2-K1	histocompatibility 2, K1, K region	14972	433	1180	2.73
1416296_at	Il2rg	interleukin 2 receptor, gamma chain	16186	259	705	2.72
1423887_a_at	Telo2	TEL2, telomere maintenance 2, homolog (S. cerevisiae)	71718	154	413	2.67
1435940_at	AI836758	expressed sequence AI836758	99719	178	472	2.64
1460414_at	Obsl1	obscurin-like 1	98733	77	202	2.62
1453238_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	615	1604	2.61
1460242_at	Cd55	CD55 antigen	13136	327	834	2.55
1450826_a_at	Saa3	serum amyloid A 3	20210	125	311	2.49
1448306_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	1392	3462	2.49
1439965_at				207	510	2.46
1435666_at	Mast3	microtubule associated serine/threonine kinase 3	546071	86	210	2.45

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1418762_at	Cd55	CD55 antigen	13136	263	644	2.44
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	274	666	2.43
1449014_at	Lactb	lactamase, beta	80907	139	330	2.37
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	432	1023	2.37
1459293_at	Gprin3	GPRIN family member 3	243385	93	217	2.34
1415989_at	Vcam1	vascular cell adhesion molecule 1	22329	2985	6957	2.33
1424270_at	Dclk1	doublecortin-like kinase 1	13175	388	886	2.28
1436002_at	C230013L11Rik	RIKEN cDNA C230013L11 gene	319712	103	234	2.28
1418240_at	Gbp2	guanylate nucleotide binding protein 2	14469	509	1150	2.26
1425784_a_at	Olfm1	olfactomedin 1	56177	101	228	2.25
1435565_at	1500011H22Rik	RIKEN cDNA 1500011H22 gene	68948	166	374	2.25
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	333	748	2.25
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	3096	6893	2.23
1421989_s_at	Papss2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	23972	577	1282	2.22
1438406_at	Scarf2	scavenger receptor class F, member 2	224024	135	296	2.20
1443906_at	Cd55	CD55 antigen	13136	219	475	2.17
1434781_at	Dnajc16	DnaJ (Hsp40) homolog, subfamily C, member 16	214063	183	391	2.13
1424921_at	Brd4	bromodomain containing 4	57261	898	1914	2.13
1425154_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	869	1848	2.13
1436807_x_at	Trim62	tripartite motif-containing 62	67525	183	386	2.11
1460633_at	Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	28000	252	531	2.11
1432269_a_at	Sh3kbp1	SH3-domain kinase binding protein 1	58194	184	387	2.10
1450378_at	Tapbp	TAP binding protein	21356	922	1934	2.10
1449423_at	Mast1	microtubule associated serine/threonine kinase 1	56527	124	258	2.08
1435137_s_at	1200016E24Rik	RIKEN cDNA 1200016E24 gene	319202	533	1105	2.07
1450534_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	261	540	2.07
1424590_at	Ddx19b	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19b	234733	149	308	2.07
1449195_s_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	436	900	2.07
1421812_at	Tapbp	TAP binding protein	21356	2991	6170	2.06
1432304_a_at	9030624J02Rik	RIKEN cDNA 9030624J02 gene	71517	160	328	2.05
1419100_at	Serpina3n	serine (or cysteine) peptidase inhibitor, clade A, member 3N	20716	656	1344	2.05
1454182_at	5430417C01Rik	RIKEN cDNA 5430417C01 gene	78548	110	224	2.05
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	583	1192	2.05
1424271_at	Dclk1	doublecortin-like kinase 1	13175	1494	3053	2.04

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1421129_a_at	Atp2a3	ATPase, Ca++ transporting, ubiquitous	53313	207	422	2.04
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1937	3949	2.04
1454857_at	Rnf122	ring finger protein 122	68867	116	236	2.04
1449029_at	Mknk2	MAP kinase-interacting serine/threonine kinase 2	17347	208	420	2.02
1435193_at	A230050P20Rik	RIKEN cDNA A230050P20 gene	319278	112	227	2.02
1438855_x_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	439	887	2.02
1449731_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	2215	4474	2.02
1440976_at	1110035M17Rik	RIKEN cDNA 1110035M17 gene	432396	101	203	2.02
1454974_at	Ntn1	netrin 1	18208	213	429	2.01
1417853_at	Clca1	chloride channel calcium activated 1	12722	214	429	2.00
1417040_a_at	Bok	Bcl-2-related ovarian killer protein	51800	505	251	-2.01
1450429_at	Capn6	calpain 6	12338	406	201	-2.02
1424007_at	Gdf10	growth differentiation factor 10	14560	2082	1027	-2.03
1437633_at	Ankrd11	ankyrin repeat domain 11	77087	260	128	-2.03
1435820_x_at	Ddr1	discoidin domain receptor family, member 1	12305	2889	1422	-2.03
1420931_at	Mapk8	mitogen activated protein kinase 8	26419	221	109	-2.03
1436279_at				859	417	-2.06
1427735_a_at	Acta1	actin, alpha 1, skeletal muscle	11459	709	342	-2.07
1454001_at				294	141	-2.09
1456793_at	Cytl1	cytokine like 1	231162	617	295	-2.09
1427038_at	Penk1	preproenkephalin 1	18619	6522	3011	-2.17
1435796_at	4933413A10Rik	RIKEN cDNA 4933413A10 gene	243220	518	239	-2.17
1454366_at	4833419A21Rik	RIKEN cDNA 4833419A21 gene	73755	221	101	-2.18
1420387_at	Mpv17	Mpv17 transgene, kidney disease mutant	17527	2223	1017	-2.19
1418839_at	Glmn	glomulin, FKBP associated protein	170823	278	127	-2.19
1447982_at	1110008P14Rik	RIKEN cDNA 1110008P14 gene	73737	1177	537	-2.19
1436151_x_at	BC031781	cDNA sequence BC031781	208768	851	388	-2.19
1449827_at	Acan	aggrecan	11595	2346	1061	-2.21
1426963_at	Pacs2	phosphofurin acidic cluster sorting protein 2	217893	591	253	-2.34
1420284_at	Bat4	HLA-B associated transcript 4	81845	1302	546	-2.39
1419974_at	Scp2	sterol carrier protein 2, liver	20280	420	173	-2.43
1435684_at	Abcc5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	27416	1717	696	-2.47
1427030_at	Ccdc52	coiled-coil domain containing 52	212514	202	80	-2.51
1441921_x_at	Esrrb	estrogen related receptor, beta	26380	206	82	-2.52

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	TNF	Fold change TNF / Control
1441891_x_at	Elovl7	ELOVL family member 7, elongation of long chain fatty acids (yeast)	74559	290	114	-2.54
1448700_at	G0s2	G0/G1 switch gene 2	14373	566	218	-2.59
1456291_x_at	Scx	scleraxis	20289	307	117	-2.62
1445723_at	Plcl1	phospholipase C-like 1	227120	223	77	-2.88
1432350_at	Sync	syncoilin	68828	664	230	-2.88
1416725_at	Tcf4	transcription factor 4	21413	204	71	-2.89
1426984_at	2310067B10Rik	RIKEN cDNA 2310067B10 gene	71947	353	114	-3.11
1438623_x_at	Rbx1	ring-box 1	56438	521	162	-3.21
1452292_at	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	71770	1822	568	-3.21
1438403_s_at	Ramp2	receptor (calcitonin) activity modifying protein 2	54409	580	173	-3.35

Table SI.d. α-LTβR-regulated probe sets at 2h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1416218_x_at	Rpl37a	ribosomal protein L37a	19981	312	937	3.00
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	573	1517	2.65
1453806_at	Ndufb2	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2	68198	106	263	2.48
1420183_at	Lor	loricrin	16939	98	235	2.40
1417352_s_at	Snrpa1	small nuclear ribonucleoprotein polypeptide A'	68981	560	1333	2.38
1456572_x_at	Cct4	chaperonin subunit 4 (delta)	12464	129	306	2.37
1449768_at				102	235	2.30
1434433_x_at	Wdr61	WD repeat domain 61	66317	93	212	2.28
1441285_at	4833426J09Rik	RIKEN cDNA 4833426J09 gene	382051	104	231	2.22
1438549_a_at	Srr	serine racemase	27364	233	499	2.14
1425881_at	Psg28	pregnancy-specific glycoprotein 28	114871	115	237	2.06
1460024_at	Tnrc6b	trinucleotide repeat containing 6b	213988	103	209	2.02
1445264_at	Catsper2	cation channel, sperm associated 2	212670	209	104	-2.02
1452809_at	9030607L17Rik	RIKEN cDNA 9030607L17 gene	71564	264	128	-2.06
1447728_x_at	Hspa9	heat shock protein 9	15526	1092	527	-2.07
1419092_a_at	Slk	STE20-like kinase (yeast)	20874	211	101	-2.08
1448598_at	Mmp17	matrix metallopeptidase 17	23948	252	109	-2.31
1429516_at	Ubr2	ubiquitin protein ligase E3 component n-recognin 2	224826	208	85	-2.45
1417154_at	Slc25a14	solute carrier family 25 (mitochondrial carrier, brain), member 14	20523	218	88	-2.47
1455578_x_at	Rpl41	ribosomal protein L41	67945	17174	4479	-3.83
1433792_at	Nrip2	nuclear receptor interacting protein 2	60345	267	68	-3.92
1449363_at	Atf3	activating transcription factor 3	11910	393	94	-4.19
1454791_a_at	Rbbp4	retinoblastoma binding protein 4	19646	1771	388	-4.56
1456569_x_at	Gsn	gelsolin	227753	321	47	-6.88

Table SI.e. α-LTβR-regulated probe sets at 6h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1432104_a_at	Allc	allantoicase	94041	32	202	6.35
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	67	314	4.68
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	692	3051	4.41
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	123	424	3.46
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	281	955	3.40
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	190	551	2.90
1446190_at	Dclk1	doublecortin-like kinase 1	13175	193	558	2.89
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	596	1584	2.66
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	281	703	2.50
1440721_at	5930433N17Rik	RIKEN cDNA 5930433N17 gene	399623	90	222	2.47
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	723	1761	2.44
1454592_at	9430012M22Rik	RIKEN cDNA 9430012M22 gene	77244	141	329	2.33
1428702_at	Ddx28	DEAD (Asp-Glu-Ala-Asp) box polypeptide 28	71986	193	446	2.31
1457455_at	Suhw4	suppressor of hairy wing homolog 4 (Drosophila)	235469	101	234	2.31
1435929_at	9630033F20Rik	RIKEN cDNA 9630033F20 gene	319801	98	222	2.28
1449731_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	2379	5391	2.27
1457161_at	9530029O12Rik	RIKEN cDNA 9530029O12 gene	399629	166	374	2.25
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	243	539	2.22
1448306_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	1543	3357	2.18
1415899_at	Junb	Jun-B oncogene	16477	432	924	2.14
1447803_x_at	Capg	capping protein (actin filament), gelsolin-like	12332	110	232	2.10
1434122_at	Fbxo27	F-box protein 27	233040	110	229	2.09
1447664_x_at	AA986860	expressed sequence AA986860	212439	109	227	2.08
1436865_at	Slc26a11	solute carrier family 26, member 11	268512	130	268	2.05
1435940_at	AI836758	expressed sequence AI836758	99719	214	433	2.02
1449009_at	Tgtp	T-cell specific GTPase	21822	225	456	2.02
1439233_at	Tloc1	translocation protein 1	69276	243	120	-2.02
1438788_at	D5Wsu152e	DNA segment, Chr 5, Wayne State University 152, expressed	28022	231	113	-2.04

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1437629_at	Arhgef19	Rho guanine nucleotide exchange factor (GEF) 19	213649	223	108	-2.06
1453040_at	Mcart6	mitochondrial carrier triple repeat 6	67062	202	95	-2.12
1445322_x_at	E430025E21Rik	RIKEN cDNA E430025E21 gene	223593	453	212	-2.13
1426237_at	Sp2	Sp2 transcription factor	78912	591	271	-2.18
1458465_at	Pan3	PAN3 polyA specific ribonuclease subunit homolog (S. cerevisiae)	72587	260	118	-2.20
1423814_at	Ddx41	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41	72935	258	115	-2.24
1424022_at	Osgin1	oxidative stress induced growth inhibitor 1	71839	310	136	-2.28
1460373_a_at	Setd4	SET domain containing 4	224440	277	118	-2.34
1450337_a_at	Nek8	NIMA (never in mitosis gene a)-related expressed kinase 8	140859	236	91	-2.59
1437446_at	Rab5b	RAB5B, member RAS oncogene family	19344	202	77	-2.61
1419955_at	Zfand3	zinc finger, AN1-type domain 3	21769	312	94	-3.33
1460462_at	Med18	mediator of RNA polymerase II transcription, subunit 18 homolog (yeast)	67219	651	188	-3.45
1449711_at	Atp6v1e1	VATPase, H+ transporting, lysosomal V1 subunit E1	11973	725	170	-4.25
1433952_at	Tufm	Tu translation elongation factor, mitochondrial	233870	356	78	-4.59

Table SI.f. α-LTβR-regulated probe sets at 24h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1456250_x_at	Tgfbi	transforming growth factor, beta induced	21810	28	364	13.14
1437578_at	Clca2	chloride channel calcium activated 2	80797	64	537	8.33
1448650_a_at	Pole	polymerase (DNA directed), epsilon	18973	34	239	6.98
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	44	254	5.77
1435940_at	AI836758	expressed sequence AI836758	99719	178	984	5.52
1436002_at	C230013L11Rik	RIKEN cDNA C230013L11 gene	319712	103	561	5.47
1419463_at	Clca2	chloride channel calcium activated 2	80797	767	3948	5.14
1449075_at	Exdl2	exonuclease 3"-5" domain-like 2	97827	54	253	4.68
1416296_at	Il2rg	interleukin 2 receptor, gamma chain	16186	259	1204	4.65
1454592_at	9430012M22Rik	RIKEN cDNA 9430012M22 gene	77244	70	311	4.47
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	576	2549	4.43
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	370	1604	4.34
1418762_at	Cd55	CD55 antigen	13136	263	1135	4.31
1424270_at	Dclk1	doublecortin-like kinase 1	13175	388	1651	4.25
1446190_at	Dclk1	doublecortin-like kinase 1	13175	217	904	4.16
1424271_at	Dclk1	doublecortin-like kinase 1	13175	1494	5851	3.92
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	637	2443	3.84
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	129	493	3.81
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	239	908	3.79
1449711_at	Atp6v1e1	VATPase, H+ transporting, lysosomal V1 subunit E1	11973	137	511	3.73
1460242_at	Cd55	CD55 antigen	13136	327	1215	3.71
1451289_at	Dclk1	doublecortin-like kinase 1	13175	1049	3857	3.68
1436838_x_at	Cotl1	coactosin-like 1 (Dictyostelium)	72042	110	399	3.62
1435690_at	2310008H09Rik	RIKEN cDNA 2310008H09 gene	66356	96	326	3.41
1437967_at				61	205	3.37
1419235_s_at	Helb	helicase (DNA) B	117599	114	373	3.28
1429310_at	Flrt3	fibronectin leucine rich transmembrane protein 3	71436	80	258	3.21
1423125_at	Dclk1	doublecortin-like kinase 1	13175	140	431	3.08
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	631	1851	2.93
1437473_at	Maf	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog	17132	101	297	2.93
1437463_x_at	Tgfbi	transforming growth factor, beta induced	21810	106	307	2.89

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1415804_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	278	791	2.85
1435039_a_at	Pip5k1a	phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha	18720	264	748	2.83
1454791_a_at	Rbbp4	retinoblastoma binding protein 4	19646	425	1198	2.82
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	274	770	2.81
1423954_at	C3	complement component 3	12266	419	1165	2.78
1436659_at	Dclk1	doublecortin-like kinase 1	13175	3111	8575	2.76
1443906_at	Cd55	CD55 antigen	13136	219	587	2.68
1418460_at	Sh3d19	SH3 domain protein D19	27059	80	214	2.68
1416516_at	Fscn1	fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	14086	153	407	2.65
1417853_at	Clca1	chloride channel calcium activated 1	12722	214	565	2.64
1450383_at	Ldlr	low density lipoprotein receptor	16835	202	528	2.61
1448306_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	1392	3564	2.56
1429128_x_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	149	370	2.49
1450863_a_at	Dclk1	doublecortin-like kinase 1	13175	564	1378	2.44
1420276_x_at				217	529	2.44
1416491_at	Numbl	numb-like	18223	314	761	2.42
1428306_at	Ddit4	DNA-damage-inducible transcript 4	74747	956	2294	2.40
1452595_at	Adamts4	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 4	240913	169	398	2.35
1455137_at	Rapgef5	Rap guanine nucleotide exchange factor (GEF) 5	217944	248	582	2.35
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	507	1173	2.32
1422805_a_at	Ing3	inhibitor of growth family, member 3	71777	185	429	2.32
1428929_s_at	Slc25a26	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26	67582	151	348	2.31
1448239_at	Hmox1	heme oxygenase (decycling) 1	15368	515	1184	2.30
1418872_at	Abcb1b	ATP-binding cassette, sub-family B (MDR/TAP), member 1B	18669	218	498	2.29
1436403_at	BC025575	cDNA sequence BC025575	217219	94	215	2.28
1460259_s_at	Clca2	chloride channel calcium activated 2	80797	1512	3442	2.28
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1044	2301	2.20
1449014_at	Lactb	lactamase, beta	80907	139	305	2.19

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1449731_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	2215	4858	2.19
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	1104	2418	2.19
1421939_a_at	Stag1	stromal antigen 1	20842	142	310	2.19
1426652_at	Mcm3	minichromosome maintenance deficient 3 (S. cerevisiae)	17215	201	437	2.17
1435697_a_at	Pscdbp	pleckstrin homology, Sec7 and coiled-coil domains, binding protein	227929	415	893	2.15
1455472_at	A630071D13Rik	RIKEN cDNA A630071D13 gene	103300	101	216	2.15
1449133_at	Sprr1a	small proline-rich protein 1A	20753	278	596	2.14
1438905_x_at	C030046I01Rik	RIKEN cDNA C030046I01 gene	109284	215	454	2.11
1451105_at	Vash2	vasohibin 2	226841	101	210	2.08
1431843_a_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	104	217	2.08
1425784_a_at	Olfm1	olfactomedin 1	56177	101	210	2.08
1424792_at	Rpp40	ribonuclease P 40 subunit (human)	208366	128	267	2.08
1419156_at	Sox4	SRY-box containing gene 4	20677	808	1630	2.02
1453833_a_at	Rnaseh1	ribonuclease H1	19819	239	483	2.02
1438157_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	3676	7387	2.01
1454857_at	Rnf122	ring finger protein 122	68867	116	233	2.00
1428702_at	Ddx28	DEAD (Asp-Glu-Ala-Asp) box polypeptide 28	71986	500	249	-2.00
1436037_at	Itga4	integrin alpha 4	16401	575	286	-2.01
1452728_at	Kirrel3	kin of IRRE like 3 (Drosophila)	67703	277	137	-2.02
1441921_x_at	Esrrb	estrogen related receptor, beta	26380	206	102	-2.02
1441911_x_at	Gart	phosphoribosylglycinamide formyltransferase	14450	271	134	-2.03
1459818_x_at	Zmym3	zinc finger, MYM-type 3	56364	556	274	-2.03
1423653_at	Atp1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	11928	4056	1989	-2.04
1447885_x_at	Nedd9	neural precursor cell expressed, developmentally down-regulated gene 9	18003	484	236	-2.05
1452848_at	LOC547127	similar to KIAA1423 protein	547127	987	482	-2.05
1437942_x_at	Tube1	epsilon-tubulin 1	71924	621	303	-2.05
1424817_at	Spef1	sperm flagellar 1	70997	272	131	-2.07
1455861_at	Epb4.1l5	erythrocyte protein band 4.1-like 5	226352	202	97	-2.08
1438438_at	2900002H16Rik	RIKEN cDNA 2900002H16 gene	75695	627	301	-2.08
1427853_a_at	Hspb1	heat shock protein 1	15507	592	284	-2.09

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Control	α-LTβR	Fold change α-LTβR / Control
1436151_x_at	BC031781	cDNA sequence BC031781	208768	851	406	-2.10
1456566_x_at	Rbm14	RNA binding motif protein 14	56275	1211	578	-2.10
1449827_at	Acan	aggrecan	11595	2346	1082	-2.17
1451071_a_at	Atp1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	11928	5665	2609	-2.17
1438636_s_at	Susd5	sushi domain containing 5	382111	1028	461	-2.23
1456510_x_at	Ubie	UbiE-YGHL1 fusion protein	393082	877	390	-2.25
1416147_at	Hspa4	heat shock protein 4	15525	1358	599	-2.27
1453530_at				216	95	-2.28
1456291_x_at	Scx	scleraxis	20289	307	135	-2.28
1426909_at	Uck2	uridine-cytidine kinase 2	80914	959	420	-2.28
1426109_a_at	Slc14a2	solute carrier family 14 (urea transporter), member 2	27411	288	124	-2.32
1447982_at	1110008P14Rik	RIKEN cDNA 1110008P14 gene	73737	1177	486	-2.42
1450115_at	Gnaq	guanine nucleotide binding protein, alpha q polypeptide	14682	427	169	-2.53
1453483_at	1700023E05Rik	RIKEN cDNA 1700023E05 gene	71868	341	131	-2.60
1423294_at	Mest	mesoderm specific transcript	17294	3233	1226	-2.64
1452292_at	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	71770	1822	684	-2.67
1419974_at	Scp2	sterol carrier protein 2, liver	20280	420	149	-2.81
1432350_at	Sync	syncoilin	68828	664	230	-2.88
1420931_at	Mapk8	mitogen activated protein kinase 8	26419	221	68	-3.24
1438403_s_at	Ramp2	receptor (calcitonin) activity modifying protein 2	54409	580	132	-4.39

Table SII. SMC mRNAs stimulated by TNF, a-LTßR, and by TNF plus a-LTßR at 24h reveals extent of transcription crosstalk.
SMCs were stimulated as described in Fig. 1. 24h later, microarrays were prepared and analyzed as described in Materials and Methods. Results are displayed as Venn diagram Fig. S3. Note that 85 genes were recruited by the combined activation of TNF plus a-LTßR versus each agonist alone. Gene symbols and gene names are indicated for ease of reading. Genes were arranged according to foldchange T/C (**a**), L/C (**b**), and TL/C (**c**) with the corresponding p Value (two-sided, paired T test) indicated in the last row.

Table SII.a. TNF stimulates 86 genes at 24h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	0.0001
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	0.01
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	0.01
1448881_at	Hp	haptoglobin	15439	85	1148	130	1212	13.56	1.53	14.32	0.02
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	0.02
1427747_a_at	Lcn2	lipocalin 2	16819	334	3132	724	3515	9.39	2.17	10.54	0.04
1450826_a_at	Saa3	serum amyloid A 3	20210	95	867	101	1015	9.11	1.06	10.66	0.03
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	31	270	173	637	8.83	5.65	20.80	0.005
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	0.04
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	291	2526	660	4228	8.68	2.27	14.53	0.005
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	84	692	247	1463	8.25	2.95	17.45	0.009
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	38	300	117	444	7.86	3.07	11.63	0.04
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	117	783	291	1419	6.71	2.49	12.17	0.005
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.03
1423555_a_at	Ifi44	interferon-induced protein 44	99899	285	1749	526	2917	6.13	1.84	10.22	0.03
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	67	398	365	1156	5.96	5.47	17.31	0.02
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	55932	268	1594	533	3340	5.95	1.99	12.46	0.01
1418580_at	Rtp4	receptor transporter protein 4	67775	724	3892	1431	5403	5.37	1.98	7.46	0.02

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1449009_at	Tgtp	T-cell specific GTPase	21822	345	1748	602	3794	5.06	1.74	10.99	0.02
1453304_s_at	Ly6e	lymphocyte antigen 6 complex, locus E	17069	559	2775	1030	4701	4.96	1.84	8.40	0.005
1424921_at	Brd4	bromodomain containing 4	57261	755	3507	987	3990	4.65	1.31	5.29	0.008
1450783_at	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	15957	536	2411	913	3923	4.50	1.70	7.31	0.05
1424067_at	Icam1	intercellular adhesion molecule	15894	401	1742	1455	4417	4.35	3.63	11.03	0.02
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	0.0005
1428942_at	Mt2	metallothionein 2	17750	1717	7241	4059	9659	4.22	2.36	5.63	0.008
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	0.001
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1074	780	1271	4.00	2.91	4.73	0.003
1438676_at	Mpa2l	macrophage activation 2 like	100702	64	249	96	379	3.90	1.51	5.94	0.02
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1841	7170	4474	10628	3.89	2.43	5.77	0.004
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	0.004
1424518_at	BC020489	cDNA sequence BC020489	223672	130	443	160	563	3.41	1.23	4.33	0.04
1448550_at	Lbp	lipopolysaccharide binding protein	16803	142	482	188	468	3.39	1.33	3.30	0.05
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	0.005
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	334	1109	663	2291	3.32	1.98	6.85	0.01
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1874	6157	2927	8183	3.29	1.56	4.37	0.004
1419043_a_at	Iigp1	interferon inducible GTPase 1	60440	483	1569	702	2624	3.25	1.45	5.44	0.03
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	0.02
1420499_at	Gch1	GTP cyclohydrolase 1	14528	175	554	224	563	3.16	1.28	3.21	0.02
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2172	6795	3180	8778	3.13	1.46	4.04	0.004
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	865	384	1283	3.03	1.35	4.49	0.02
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	946	2819	1566	4274	2.98	1.66	4.52	0.01
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1254	3683	1665	5016	2.94	1.33	4.00	0.007
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	1358	3864	1711	6053	2.84	1.26	4.46	0.03
1452349_x_at	Ifi205	interferon activated gene 205	226695	651	1826	971	2806	2.81	1.49	4.31	0.03

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	164	459	345	1012	2.79	2.10	6.16	0.03
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	871	2393	1567	3886	2.75	1.80	4.46	0.01
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	489	1330	1090	2311	2.72	2.23	4.72	0.01
1457644_s_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	292	794	504	1303	2.72	1.73	4.46	0.02
1417172_at	Ube2l6	ubiquitin-conjugating enzyme E2L 6	56791	129	347	183	377	2.68	1.41	2.91	0.03
1417793_at	Iigp2	interferon inducible GTPase 2	54396	423	1103	632	1864	2.61	1.49	4.40	0.01
1439068_at	Arts1	type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	80898	178	464	270	557	2.61	1.52	3.13	0.02
1417130_s_at	Angptl4	angiopoietin-like 4	57875	404	1039	935	1402	2.57	2.32	3.47	0.009
1434380_at	Gbp6	guanylate binding protein 6	229900	265	677	333	1229	2.55	1.26	4.64	0.02
1424148_a_at	AW049765	expressed sequence AW049765	106766	132	335	224	342	2.53	1.69	2.59	0.04
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	629	1582	876	2178	2.52	1.39	3.47	0.02
1417961_a_at	Trim30	tripartite motif protein 30	20128	507	1271	548	1691	2.51	1.08	3.34	0.05
1422557_s_at	Mt1	metallothionein 1	17748	2025	4960	3511	6722	2.45	1.73	3.32	0.01
1438868_at	Phf11	PHD finger protein 11	219131	902	2203	1192	2948	2.44	1.32	3.27	0.04
1417141_at	Igtp	interferon gamma induced GTPase	16145	347	847	581	1144	2.44	1.67	3.30	0.02
1421812_at	Tapbp	TAP binding protein	21356	2751	6688	3917	8239	2.43	1.42	2.99	0.004
1425603_at	Tmem176a	transmembrane protein 176A	66058	982	2377	2302	3272	2.42	2.34	3.33	0.05
1443698_at	Fbxo39	F-box protein 39	327959	796	1926	1036	2663	2.42	1.30	3.34	0.05
1454783_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	151	349	261	535	2.31	1.73	3.54	0.009
1438561_x_at	Tmem180	transmembrane protein 180	75146	121	273	243	274	2.26	2.01	2.27	0.05
1416897_at	Parp9	poly (ADP-ribose) polymerase family, member 9	80285	620	1398	869	1983	2.25	1.40	3.20	0.02
1454974_at	Ntn1	netrin 1	18208	254	572	433	828	2.25	1.71	3.26	0.04
1438037_at	Herc5	hect domain and RLD 5	67138	264	591	364	855	2.24	1.38	3.25	0.02
1437303_at	Il6st	interleukin 6 signal transducer	16195	490	1082	621	1055	2.21	1.27	2.15	0.01
1436172_at	Samd9l	sterile alpha motif domain containing 9-like	209086	368	808	507	984	2.20	1.38	2.68	0.02
1448380_at	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	19039	2304	5060	2725	6328	2.20	1.18	2.75	0.02
1415899_at	Junb	Jun-B oncogene	16477	340	743	680	1038	2.19	2.00	3.06	0.005
1443858_at			552905	581	1256	709	1670	2.16	1.22	2.87	0.02

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1456494_a_at	AI451617	expressed sequence AI451617	209387	245	528	293	720	2.15	1.19	2.94	0.05
1436778_at	Cybb	cytochrome b-245, beta polypeptide	13058	115	246	131	341	2.14	1.14	2.97	0.006
1420088_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	0.004
1429184_at	Gvin1	GTPase, very large interferon inducible 1	74558	1572	3330	1836	4146	2.12	1.17	2.64	0.04
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	577	1223	860	1699	2.12	1.49	2.94	0.02
1417853_at	Clca1	chloride channel calcium activated 1	12722	142	298	367	541	2.11	2.59	3.82	0.05
1422573_at	Ampd3	AMP deaminase 3	11717	299	624	511	1035	2.09	1.71	3.47	0.03
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	375	779	595	1031	2.08	1.59	2.75	0.04
1426278_at	Ifi27	interferon, alpha-inducible protein 27	76933	330	688	336	813	2.08	1.02	2.46	0.04
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	417	869	923	2071	2.08	2.21	4.96	0.02
1452178_at	Plec1	plectin 1	18810	230	476	288	589	2.07	1.25	2.56	0.005
1442819_at	Rhbdl2	rhomboid, veinlet-like 2 (Drosophila)	230726	159	328	392	501	2.06	2.46	3.15	0.005
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1245	2520	2170	4150	2.02	1.74	3.33	0.008
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	0.02

Table SII.b. α-LTβR stimulates 23 genes at 24h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.02
1422562_at	Rrad	Ras-related associated with diabetes	56437	26	125	239	260	4.73	9.07	9.86	0.05
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	0.02
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	67	398	365	1156	5.96	5.47	17.31	0.03
1424271_at	Dclk1	doublecortin-like kinase 1	13175	840	2240	4326	4604	2.67	5.15	5.48	0.05
1424067_at	Icam1	intercellular adhesion molecule	15894	401	1742	1455	4417	4.35	3.63	11.03	0.04
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1074	780	1271	4.00	2.91	4.73	0.004
1419157_at	Sox4	SRY-box containing gene 4	20677	580	1087	1552	1419	1.88	2.68	2.45	0.004
1417853_at	Clca1	chloride channel calcium activated 1	12722	142	298	367	541	2.11	2.59	3.82	0.05
1442819_at	Rhbdl2	rhomboid, veinlet-like 2 (Drosophila)	230726	159	328	392	501	2.06	2.46	3.15	0.004
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1841	7170	4474	10628	3.89	2.43	5.77	0.02
1418240_at	Gbp2	guanylate nucleotide binding protein 2	14469	292	2362	690	3721	8.09	2.36	12.75	0.03
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	0.04
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	489	1330	1090	2311	2.72	2.23	4.72	0.04
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	866	1164	1914	3403	1.34	2.21	3.93	0.03
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	417	869	923	2071	2.08	2.21	4.96	0.004
1457780_at	Stx11	syntaxin 11	74732	246	468	523	943	1.90	2.13	3.84	0.003
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	0.005
1420088_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	0.005
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	0.02
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	0.01
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	0.005
1415899_at	Junb	Jun-B oncogene	16477	340	743	680	1038	2.19	2.00	3.06	0.01

Table SII.c. TNF + α-LTβR stimulates 177 genes at 24h.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	0.0004
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	0.004
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	0.005
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.005
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	31	270	173	637	8.83	5.65	20.80	0.003
1429947_a_at	Zbp1	Z-DNA binding protein 1	58203	15	181	29	289	11.83	1.90	18.87	0.02
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	84	692	247	1463	8.25	2.95	17.45	0.005
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	67	398	365	1156	5.96	5.47	17.31	0.009
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	291	2526	660	4228	8.68	2.27	14.53	0.003
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	0.02
1460469_at	Tnfrsf9	tumor necrosis factor receptor superfamily, member 9	21942	49	356	139	699	7.32	2.86	14.35	0.005
1448881_at	Hp	haptoglobin	15439	85	1148	130	1212	13.56	1.53	14.32	0.02
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	0.01
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	55932	268	1594	533	3340	5.95	1.99	12.46	0.003
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	117	783	291	1419	6.71	2.49	12.17	0.003
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	38	300	117	444	7.86	3.07	11.63	0.02
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.01
1451655_at	Slfn8	schlafen 8	276950	20	178	83	224	8.85	4.12	11.16	0.04
1424067_at	Icam1	intercellular adhesion molecule	15894	401	1742	1455	4417	4.35	3.63	11.03	0.006
1449009_at	Tgtp	T-cell specific GTPase	21822	345	1748	602	3794	5.06	1.74	10.99	0.004
1450826_a_at	Saa3	serum amyloid A 3	20210	95	867	101	1015	9.11	1.06	10.66	0.03
1427747_a_at	Lcn2	lipocalin 2	16819	334	3132	724	3515	9.39	2.17	10.54	0.04
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	40	98	246	407	2.46	6.20	10.27	0.04
1423555_a_at	Ifi44	interferon-induced protein 44	99899	285	1749	526	2917	6.13	1.84	10.22	0.01

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1422562_at	Rrad	Ras-related associated with diabetes	56437	26	125	239	260	4.73	9.07	9.86	0.03
1451777_at	BC013672	cDNA sequence BC013672	234311	30	171	59	273	5.70	1.97	9.09	0.04
1453304_s_at	Ly6e	lymphocyte antigen 6 complex, locus E	17069	559	2775	1030	4701	4.96	1.84	8.40	0.004
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	0.009
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	0.0004
1418580_at	Rtp4	receptor transporter protein 4	67775	724	3892	1431	5403	5.37	1.98	7.46	0.01
1450783_at	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	15957	536	2411	913	3923	4.50	1.70	7.31	0.02
1435940_at	AI836758	expressed sequence AI836758	99719	154	487	1156	1073	3.16	7.52	6.98	0.05
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	334	1109	663	2291	3.32	1.98	6.85	0.004
1437932_a_at	Cldn1	claudin 1	12737	41	42	100	269	1.03	2.43	6.56	0.04
1426063_a_at	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	14579	60	117	124	385	1.94	2.05	6.37	0.01
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	164	459	345	1012	2.79	2.10	6.16	0.005
1450424_a_at	Il18bp	interleukin 18 binding protein	16068	59	298	106	352	5.07	1.81	5.99	0.01
1438676_at	Mpa2l	macrophage activation 2 like	100702	64	249	96	379	3.90	1.51	5.94	0.008
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1841	7170	4474	10628	3.89	2.43	5.77	0.002
1438855_x_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	141	610	271	799	4.32	1.92	5.66	0.05
1428942_at	Mt2	metallothionein 2	17750	1717	7241	4059	9659	4.22	2.36	5.63	0.005
1419043_a_at	Iigp1	interferon inducible GTPase 1	60440	483	1569	702	2624	3.25	1.45	5.44	0.01
1424921_at	Brd4	bromodomain containing 4	57261	755	3507	987	3990	4.65	1.31	5.29	0.003
1449204_at	Gjb5	gap junction membrane channel protein beta 5	14622	51	135	160	264	2.66	3.15	5.20	0.02
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	90	254	259	455	2.81	2.87	5.04	0.02
1436659_at	Dclk1	doublecortin-like kinase 1	13175	1345	4106	6778	6781	3.05	5.04	5.04	0.05
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	417	869	923	2071	2.08	2.21	4.96	0.004
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	0.003
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	0.0008

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	0.005
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1074	780	1271	4.00	2.91	4.73	0.0006
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	489	1330	1090	2311	2.72	2.23	4.72	0.007
1451821_a_at	Sp100	nuclear antigen Sp100	20684	66	186	81	307	2.83	1.23	4.66	0.009
1434380_at	Gbp6	guanylate binding protein 6	229900	265	677	333	1229	2.55	1.26	4.64	0.01
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	946	2819	1566	4274	2.98	1.66	4.52	0.005
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	865	384	1283	3.03	1.35	4.49	0.007
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	1358	3864	1711	6053	2.84	1.26	4.46	0.01
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	871	2393	1567	3886	2.75	1.80	4.46	0.004
1439831_at	EG240327	predicted gene, EG240327	240327	84	204	119	370	2.42	1.41	4.41	0.01
1417793_at	Iigp2	interferon inducible GTPase 2	54396	423	1103	632	1864	2.61	1.49	4.40	0.007
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1874	6157	2927	8183	3.29	1.56	4.37	0.002
1448775_at	Ifi203	interferon activated gene 203	15950	67	179	121	291	2.67	1.81	4.34	0.03
1424518_at	BC020489	cDNA sequence BC020489	223672	130	443	160	563	3.41	1.23	4.33	0.03
1452349_x_at	Ifi205	interferon activated gene 205	226695	651	1826	971	2806	2.81	1.49	4.31	0.01
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	0.02
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	0.01
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2172	6795	3180	8778	3.13	1.46	4.04	0.003
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1254	3683	1665	5016	2.94	1.33	4.00	0.004
1418191_at	Usp18	ubiquitin specific peptidase 18	24110	458	1240	548	1800	2.71	1.20	3.93	0.03
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	866	1164	1914	3403	1.34	2.21	3.93	0.005
1450165_at	Slfn2	schlafen 2	20556	116	193	134	453	1.67	1.16	3.92	0.01
1450484_a_at	Tyki	thymidylate kinase family LPS-inducible member	22169	88	165	114	342	1.88	1.30	3.90	0.03
1453228_at	Stx11	syntaxin 11	74732	362	586	693	1409	1.62	1.92	3.89	0.003
1434015_at	Slc2a6	solute carrier family 2 (facilitated glucose transporter), member 6	227659	64	207	136	249	3.24	2.12	3.89	0.01
1417853_at	Clca1	chloride channel calcium activated 1	12722	142	298	367	541	2.11	2.59	3.82	0.01

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1429159_at	Itih5	inter-alpha (globulin) inhibitor H5	209378	78	119	93	285	1.53	1.19	3.66	0.02
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	629	1582	876	2178	2.52	1.39	3.47	0.01
1417130_s_at	Angptl4	angiopoietin-like 4	57875	404	1039	935	1402	2.57	2.32	3.47	0.02
1422573_at	Ampd3	AMP deaminase 3	11717	299	624	511	1035	2.09	1.71	3.47	0.01
1435396_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	145	208	230	500	1.44	1.59	3.45	0.01
1449133_at	Sprr1a	small proline-rich protein 1A	20753	227	348	408	780	1.53	1.79	3.43	0.04
1417961_a_at	Trim30	tripartite motif protein 30	20128	507	1271	548	1691	2.51	1.08	3.34	0.02
1443698_at	Fbxo39	F-box protein 39	327959	796	1926	1036	2663	2.42	1.30	3.34	0.02
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1245	2520	2170	4150	2.02	1.74	3.33	0.004
1422557_s_at	Mt1	metallothionein 1	17748	2025	4960	3511	6722	2.45	1.73	3.32	0.004
1417141_at	Igtp	interferon gamma induced GTPase	16145	347	847	581	1144	2.44	1.67	3.30	0.008
1438868_at	Phf11	PHD finger protein 11	219131	902	2203	1192	2948	2.44	1.32	3.27	0.01
1454974_at	Ntn1	netrin 1	18208	254	572	433	828	2.25	1.71	3.26	0.01
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	0.02
1420499_at	Gch1	GTP cyclohydrolase 1	14528	175	554	224	563	3.16	1.28	3.21	0.02
1416897_at	Parp9	poly (ADP-ribose) polymerase family, member 9	80285	620	1398	869	1983	2.25	1.40	3.20	0.008
1442819_at	Rhbdl2	rhomboid, veinlet-like 2 (Drosophila)	230726	159	328	392	501	2.06	2.46	3.15	0.0009
1423909_at	Tmem176a	transmembrane protein 176A	66058	1153	2874	2613	3590	2.49	2.27	3.11	0.03
1415899_at	Junb	Jun-B oncogene	16477	340	743	680	1038	2.19	2.00	3.06	0.001
1421812_at	Tapbp	TAP binding protein	21356	2751	6688	3917	8239	2.43	1.42	2.99	0.003
1455500_at	Rnf213	ring finger protein 213	629974	1013	1795	1276	3032	1.77	1.26	2.99	0.02
1436778_at	Cybb	cytochrome b-245, beta polypeptide	13058	115	246	131	341	2.14	1.14	2.97	0.01
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	577	1223	860	1699	2.12	1.49	2.94	0.007
1456494_a_at	AI451617	expressed sequence AI451617	209387	245	528	293	720	2.15	1.19	2.94	0.03
1417172_at	Ube2l6	ubiquitin-conjugating enzyme E2L 6	56791	129	347	183	377	2.68	1.41	2.91	0.02
1438498_at	Zmynd15	zinc finger, MYND-type containing 15	574428	63	137	99	183	2.16	1.57	2.90	0.05
1429310_at	Flrt3	fibronectin leucine rich transmembrane protein 3	71436	119	150	240	342	1.26	2.02	2.87	0.03
1436838_x_at	Cotl1	coactosin-like 1 (Dictyostelium)	72042	129	202	292	370	1.57	2.27	2.87	0.01
1443858_at			552905	581	1256	709	1670	2.16	1.22	2.87	0.007
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1009	1519	2010	2825	1.51	1.99	2.80	0.008
1425719_a_at	Nmi	N-myc (and STAT) interactor	64685	282	549	390	788	1.94	1.38	2.79	0.007

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1448380_at	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	19039	2304	5060	2725	6328	2.20	1.18	2.75	0.009
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	375	779	595	1031	2.08	1.59	2.75	0.01
1417300_at	Smpdl3b	sphingomyelin phosphodiesterase, acid-like 3B	100340	148	274	175	402	1.85	1.19	2.72	0.004
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	0.01
1426774_at	Parp12	poly (ADP-ribose) polymerase family, member 12	243771	800	1520	1082	2156	1.90	1.35	2.70	0.005
1427165_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	204	383	301	550	1.87	1.47	2.69	0.003
1450403_at	Stat2	signal transducer and activator of transcription 2	20847	383	746	494	1024	1.95	1.29	2.67	0.007
1429184_at	Gvin1	GTPase, very large interferon inducible 1	74558	1572	3330	1836	4146	2.12	1.17	2.64	0.01
1434322_at	Micall2	MICAL-like 2	231830	161	319	344	422	1.98	2.13	2.62	0.03
1433930_at	Hpse	heparanase	15442	173	295	286	453	1.71	1.66	2.62	0.01
1424857_a_at	Trim34	tripartite motif protein 34	94094	429	850	538	1119	1.98	1.26	2.61	0.02
1424148_a_at	AW049765	expressed sequence AW049765	106766	132	335	224	342	2.53	1.69	2.59	0.02
1452178_at	Plec1	plectin 1	18810	230	476	288	589	2.07	1.25	2.56	0.005
1420088_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	0.002
1429570_at	Mlkl	mixed lineage kinase domain-like	74568	354	627	452	873	1.77	1.28	2.46	0.03
1426278_at	Ifi27	interferon, alpha-inducible protein 27	76933	330	688	336	813	2.08	1.02	2.46	0.02
1450672_a_at	Trex1	three prime repair exonuclease 1	22040	288	454	430	702	1.58	1.49	2.44	0.01
1417470_at	Apobec3	apolipoprotein B editing complex 3	80287	175	282	259	427	1.61	1.48	2.44	0.008
1416016_at	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	21354	446	715	588	1074	1.61	1.32	2.41	0.005
1448940_at	Trim21	tripartite motif protein 21	20821	456	819	617	1096	1.79	1.35	2.40	0.008
1460603_at	Samd9l	sterile alpha motif domain containing 9-like	209086	1750	3161	2401	4144	1.81	1.37	2.37	0.007
1453913_a_at	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	21355	424	673	582	1000	1.59	1.37	2.36	0.007
1426501_a_at	T2bp	Traf2 binding protein	211550	156	277	291	360	1.78	1.87	2.31	0.005
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1015	1759	1305	2341	1.73	1.29	2.31	0.009

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1428384_at	D4Bwg0951e	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	52829	2224	3310	4469	5124	1.49	2.01	2.30	0.04
1455724_at				348	573	666	797	1.64	1.91	2.29	0.002
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	307	361	547	1.28	1.51	2.28	0.02
1422782_s_at	Tlr3	toll-like receptor 3	142980	425	769	568	970	1.81	1.34	2.28	0.003
1451544_at	Tapbpl	TAP binding protein-like	213233	218	325	287	496	1.49	1.32	2.28	0.004
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	0.002
1438561_x_at	Tmem180	transmembrane protein 180	75146	121	273	243	274	2.26	2.01	2.27	0.04
1455292_x_at	Rsl1	regulator of sex limited protein 1	380855	206	370	368	467	1.80	1.79	2.27	0.02
1426511_at	Susd2	sushi domain containing 2	71733	231	331	274	519	1.43	1.19	2.25	0.007
1427689_a_at	Tnip1	TNFAIP3 interacting protein 1	57783	1491	2342	2027	3343	1.57	1.36	2.24	0.002
1417719_at	Sap30	sin3 associated polypeptide	60406	228	352	333	513	1.54	1.46	2.24	0.008
1437226_x_at	Marcksl1	MARCKS-like 1	17357	718	888	1124	1599	1.24	1.56	2.23	0.04
1422742_at	Hivep1	human immunodeficiency virus type I enhancer binding protein 1	110521	399	620	642	888	1.55	1.61	2.22	0.003
1421217_a_at	Lgals9	lectin, galactose binding, soluble 9	16859	2063	3331	2545	4549	1.61	1.23	2.21	0.02
1421358_at	H2-M3	histocompatibility 2, M region locus 3	14991	440	771	582	971	1.75	1.32	2.21	0.002
1448436_a_at	Irf1	interferon regulatory factor 1	16362	806	1295	1220	1777	1.61	1.51	2.20	0.002
1440831_at	Bach1	BTB and CNC homology 1	12013	921	1210	1391	2025	1.31	1.51	2.20	0.007
1421008_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	121	174	152	264	1.44	1.26	2.19	0.04
1452483_a_at	Cd44	CD44 antigen	12505	841	1216	1320	1845	1.45	1.57	2.19	0.04
1448167_at	Ifngr1	interferon gamma receptor 1	15979	1036	1513	1841	2261	1.46	1.78	2.18	0.009
1460444_at	Arrb1	arrestin, beta 1	109689	172	212	259	372	1.24	1.51	2.17	0.02
1456586_x_at	Mvp	major vault protein	78388	731	1307	1146	1582	1.79	1.57	2.16	0.004
1437303_at	Il6st	interleukin 6 signal transducer	16195	490	1082	621	1055	2.21	1.27	2.15	0.01
1421928_at	Epha4	Eph receptor A4	13838	211	338	376	452	1.60	1.78	2.15	0.05
1450387_s_at	Ak3l1	adenylate kinase 3 alpha-like 1	11639	760	1344	1020	1631	1.77	1.34	2.15	0.01
1449875_s_at	H2-T10	histocompatibility 2, T region locus 10	15024	1735	2878	1932	3688	1.66	1.11	2.13	0.009
1418825_at	Irgm	immunity-related GTPase family, M	15944	2177	4176	2663	4619	1.92	1.22	2.12	0.03
1417346_at	Pycard	PYD and CARD domain containing	66824	183	234	250	387	1.28	1.37	2.11	0.03
1417189_at	Psme2	proteasome (prosome, macropain) 28 subunit, beta	19188	2076	3611	2568	4384	1.74	1.24	2.11	0.003

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of T-test
1418403_at	Adam19	a disintegrin and metallopeptidase domain 19 (meltrin beta)	11492	116	175	184	245	1.51	1.59	2.11	0.03
1418004_a_at	Tmem176b	transmembrane protein 176B	65963	3116	5364	5248	6534	1.72	1.68	2.10	0.02
1445897_s_at	Ifi35	interferon-induced protein 35	70110	2919	5011	3451	6124	1.72	1.18	2.10	0.007
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3862	5953	5180	8053	1.54	1.34	2.09	0.01
1418587_at	Traf3	Tnf receptor-associated factor 3	22031	1203	2026	2211	2504	1.68	1.84	2.08	0.0008
1422528_a_at	Zfp36l1	zinc finger protein 36, C3H type-like 1	12192	571	609	1036	1181	1.07	1.82	2.07	0.01
1420913_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	1486	2355	2018	3070	1.58	1.36	2.07	0.002
1417822_at	D17H6S56E-5	DNA segment, Chr 17, human D6S56E 5	110956	1031	1312	1432	2126	1.27	1.39	2.06	0.004
1425394_at	BC023105	cDNA sequence BC023105	207269	107	142	95	220	1.33	0.89	2.06	0.02
1428660_s_at	Tor3a	torsin family 3, member A	30935	507	787	596	1039	1.55	1.18	2.05	0.007
1422754_at	Tmod1	tropomodulin 1	21916	173	315	267	355	1.82	1.54	2.05	0.007
1431095_a_at	Herc5	hect domain and RLD 5	67138	374	548	395	762	1.47	1.06	2.04	0.02
1421236_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	384	634	508	780	1.65	1.32	2.03	0.05
1416942_at	Arts1	type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	80898	443	693	423	897	1.57	0.95	2.03	0.005
1419155_a_at	Sox4	SRY-box containing gene 4	20677	1019	1425	1967	2057	1.40	1.93	2.02	0.008
1423557_at	Ifngr2	interferon gamma receptor 2	15980	1091	1797	1816	2198	1.65	1.66	2.02	0.01
1427091_at	Znfx1	zinc finger, NFX1-type containing 1	98999	367	593	463	740	1.61	1.26	2.01	0.005
1432478_a_at	Ibrdc3	IBR domain containing 3	75234	202	210	284	404	1.04	1.40	2.00	0.02

Table SIII. Differential induction of TNF, α-LTβR and TNF + α-LTβR-induced mRNAs at 24 h reveals distinctive and synergistic induction of TNFR1 and LTβR-induced mRNAs as described in Heatmaps of Fig. 2. Gene symbols and gene names are indicated for ease of reading. **(a1)** TNF effect > α-LTβR effect with no hyperinduction as defined below; **(a2)** α-LTβR effect > TNF effect with no hyperinduction; **(a3)** TNF plus α-LTβR hyperinduction**.** Synergistic hyperinduction is defined by two conditions: (1) (TNF + α-LTβR) effect ≥ 1.5{*Factor of Synergy}* x (TNF effect + α-LTβR effect); (2) Two-sided, paired T-test of (TNF + α-LTβR) effect against (TNF effect + α-LTβR effect), P ≤ 0.05 (p value of synergy); (**b1**) TNF effect > α-LTβR effect (Top20); (**b2**) α-LTβR effect > TNF effect (Top20); (**b3**) TNF plus α-LTβR hyperinduction (Top20).(**c**) Interferon signature; (**d1**) Immune response (GO:0006955); (**d2**) Regulation of immune response (GO:0050776); (**d3**) Inflammatory response (GO:0006954); (**d4**) Chemotaxis (GO:0006935); (**d5**) Regulation of developmental process (GO:0050793); (**d6**) Immune system development (GO:0002520); (**d7**) Chemokine activity (GO:0008009); (**d8**) Cell adhesion (GO:0007155); (**d9**) Transcription factor activity (GO:0003700); (**d10**) Antigen processing and presentation (GO:0019882); (**d11**) Cytokine binding (GO:0019955); (**e**) Down-regulated genes.

Table SIII.a1. TNF effect > α-LTβR effect.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1448881_at	Hp	haptoglobin	15439	85	1148	130	1212	13.56	1.53	14.32	8.85	0.003
1450826_a_at	Saa3	serum amyloid A 3	20210	95	867	101	1015	9.11	1.06	10.66	8.62	0.008
1447927_at	Mpa2l	macrophage activation 2 like	100702	11	387	63	798	36.65	5.95	75.60	6.16	0.004
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	484	7251	1624	9607	14.99	3.36	19.86	4.47	<0.0001
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	103	1996	453	2899	19.47	4.41	28.28	4.41	0.0002
1427747_a_at	Lcn2	lipocalin 2	16819	334	3132	724	3515	9.39	2.17	10.54	4.33	0.02
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	291	2526	660	4228	8.68	2.27	14.53	3.82	0.0002
1424921_at	Brd4	bromodomain containing 4	57261	755	3507	987	3990	4.65	1.31	5.29	3.55	0.0002
1424948_x_at	H2-K1	histocompatibility 2, K1, K region	14972	417	2437	696	3628	5.84	1.67	8.70	3.50	<0.0001
1453939_x_at	LOC677168	similar to ISG15 ubiquitin-like modifier	677168	30	261	76	333	8.74	2.53	11.12	3.45	0.0005
1418240_at	Gbp2	guanylate nucleotide binding protein 2	14469	292	2362	690	3721	8.09	2.36	12.75	3.42	<0.0001
1453238_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	319202	322	1138	349	1230	3.54	1.08	3.82	3.27	<0.0001
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	3.17	0.01
1450424_a_at	Il18bp	interleukin 18 binding protein	16068	59	298	106	352	5.07	1.81	5.99	2.80	0.0009
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	84	692	247	1463	8.25	2.95	17.45	2.80	0.0005
1424518_at	BC020489	cDNA sequence BC020489	223672	130	443	160	563	3.41	1.23	4.33	2.76	0.02
1418580_at	Rtp4	receptor transporter protein 4	67775	724	3892	1431	5403	5.37	1.98	7.46	2.72	0.003

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1431591_s_at	LOC677168	similar to ISG15 ubiquitin-like modifier	677168	547	2194	809	3154	4.01	1.48	5.76	2.71	0.003
1453304_s_at	Ly6e	lymphocyte antigen 6 complex, locus E	17069	559	2775	1030	4701	4.96	1.84	8.40	2.70	0.0001
1451314_a_at	Vcam1	vascular cell adhesion molecule 1	22329	559	3670	1363	5081	6.56	2.44	9.08	2.69	<0.0001
1431008_at	0610037M15 Rik	RIKEN cDNA 0610037M15 gene	68395	77	395	153	624	5.14	1.99	8.10	2.58	0.001
1448550_at	Lbp	lipopolysaccharide binding protein	16803	142	482	188	468	3.39	1.33	3.30	2.56	0.03
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	38	300	117	444	7.86	3.07	11.63	2.56	0.02
1451683_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	943	3294	1290	4254	3.49	1.37	4.51	2.55	0.0001
1420499_at	Gch1	GTP cyclohydrolase 1	14528	175	554	224	563	3.16	1.28	3.21	2.47	0.01
1417961_a_at	Trim30	tripartite motif protein 30	20128	507	1271	548	1691	2.51	1.08	3.34	2.32	0.01
1451821_a_at	Sp100	nuclear antigen Sp100	20684	66	186	81	307	2.83	1.23	4.66	2.29	0.001
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	865	384	1283	3.03	1.35	4.49	2.25	0.004
1451860_a_at	Trim30	tripartite motif protein 30	20128	275	770	347	1097	2.80	1.26	3.99	2.22	0.003
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1254	3683	1665	5016	2.94	1.33	4.00	2.21	0.0002
1451931_x_at	H2-L	histocompatibility 2, D region	14980	1623	5204	2390	7010	3.21	1.47	4.32	2.18	<0.0001
1426906_at	Ifi205	interferon activated gene 205	226695	120	482	223	748	4.02	1.86	6.23	2.16	0.004
1451655_at	Slfn8	schlafen 8	276950	20	178	83	224	8.85	4.12	11.16	2.14	0.02
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2172	6795	3180	8778	3.13	1.46	4.04	2.14	<0.0001
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1874	6157	2927	8183	3.29	1.56	4.37	2.10	<0.0001
1452231_x_at	Ifi205	interferon activated gene 205	226695	184	656	317	1090	3.57	1.73	5.94	2.07	0.002
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	2.07	0.02
1450534_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	224	773	376	808	3.45	1.68	3.61	2.06	0.0004
1426278_at	Ifi27	interferon, alpha-inducible protein 27	76933	330	688	336	813	2.08	1.02	2.46	2.05	0.007
1429692_s_at	Gch1	GTP cyclohydrolase 1	14528	177	423	209	416	2.38	1.18	2.35	2.03	0.008
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	2.01	<0.0001
1417172_at	Ube2l6	ubiquitin-conjugating enzyme E2L 6	56791	129	347	183	377	2.68	1.41	2.91	1.90	0.01
1452349_x_at	Ifi205	interferon activated gene 205	226695	651	1826	971	2806	2.81	1.49	4.31	1.88	0.003
1436778_at	Cybb	cytochrome b-245, beta polypeptide	13058	115	246	131	341	2.14	1.14	2.97	1.88	0.004
1432026_a_at	Herc5	hect domain and RLD 5	67138	108	226	120	345	2.10	1.12	3.20	1.88	0.003

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1443698_at	Fbxo39	F-box protein 39	327959	796	1926	1036	2663	2.42	1.30	3.34	1.86	0.01
1448380_at	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	19039	2304	5060	2725	6328	2.20	1.18	2.75	1.86	0.002
1438868_at	Phf11	PHD finger protein 11	219131	902	2203	1192	2948	2.44	1.32	3.27	1.85	0.01
1420915_at	Stat1	signal transducer and activator of transcription 1	20846	472	1320	718	1775	2.79	1.52	3.76	1.84	0.0008
1429184_at	Gvin1	GTPase, very large interferon inducible 1	74558	1572	3330	1836	4146	2.12	1.17	2.64	1.81	0.003
1450033_a_at	Stat1	signal transducer and activator of transcription 1	20846	588	1804	997	2544	3.07	1.70	4.33	1.81	0.001
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	629	1582	876	2178	2.52	1.39	3.47	1.81	0.003
1456494_a_at	AI451617	expressed sequence AI451617	209387	245	528	293	720	2.15	1.19	2.94	1.80	0.02
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	946	2819	1566	4274	2.98	1.66	4.52	1.80	0.0009
1428942_at	Mt2	metallothionein 2	17750	1717	7241	4059	9659	4.22	2.36	5.63	1.78	0.001
1443858_at			552905	581	1256	709	1670	2.16	1.22	2.87	1.77	0.001
1417793_at	Iigp2	interferon inducible GTPase 2	54396	423	1103	632	1864	2.61	1.49	4.40	1.74	0.0006
1437303_at	Il6st	interleukin 6 signal transducer	16195	490	1082	621	1055	2.21	1.27	2.15	1.74	0.002
1452348_s_at	Ifi205	interferon activated gene 205	226695	352	972	564	1545	2.76	1.60	4.38	1.72	0.004
1439068_at	Arts1	type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	80898	178	464	270	557	2.61	1.52	3.13	1.72	0.002
1421812_at	Tapbp	TAP binding protein	21356	2751	6688	3917	8239	2.43	1.42	2.99	1.71	<0.0001
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	1.70	0.002
1426324_at	H2-D1	histocompatibility 2, D region locus 1	14964	97	494	291	694	5.11	3.01	7.18	1.70	0.003
1438027_at	5830443L24 Rik	RIKEN cDNA 5830443L24 gene	76074	14	71	42	201	5.14	3.03	14.48	1.69	0.003
1435137_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	319202	346	720	433	939	2.08	1.25	2.71	1.66	0.0002
1452178_at	Plec1	plectin 1	18810	230	476	288	589	2.07	1.25	2.56	1.65	0.0004
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	1.65	<0.0001
1416942_at	Arts1	type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	80898	443	693	423	897	1.57	0.95	2.03	1.64	<0.0001

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	1.64	0.0003
1438037_at	Herc5	hect domain and RLD 5	67138	264	591	364	855	2.24	1.38	3.25	1.62	0.006
1417851_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	50	109	67	324	2.17	1.34	6.45	1.62	0.001
1416897_at	Parp9	poly (ADP-ribose) polymerase family, member 9	80285	620	1398	869	1983	2.25	1.40	3.20	1.61	0.002
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1841	7170	4474	10628	3.89	2.43	5.77	1.60	<0.0001
1436172_at	Samd9l	sterile alpha motif domain containing 9-like	209086	368	808	507	984	2.20	1.38	2.68	1.59	0.004
1424857_a_at	Trim34	tripartite motif protein 34	94094	429	850	538	1119	1.98	1.26	2.61	1.58	0.01
1457644_s_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	292	794	504	1303	2.72	1.73	4.46	1.58	0.006
1418825_at	Irgm	immunity-related GTPase family, M	15944	2177	4176	2663	4619	1.92	1.22	2.12	1.57	0.03
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	31	270	173	637	8.83	5.65	20.80	1.56	0.0003
1421911_at	Stat2	signal transducer and activator of transcription 2	20847	250	472	304	653	1.89	1.22	2.61	1.56	0.002
1415989_at	Vcam1	vascular cell adhesion molecule 1	22329	838	3396	2185	6175	4.05	2.61	7.37	1.55	<0.0001
1450378_at	Tapbp	TAP binding protein	21356	802	1871	1209	2627	2.33	1.51	3.27	1.55	0.0001
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	871	2393	1567	3886	2.75	1.80	4.46	1.53	0.0003
1434015_at	Slc2a6	solute carrier family 2 (facilitated glucose transporter), member 6	227659	64	207	136	249	3.24	2.12	3.89	1.53	0.007
1450403_at	Stat2	signal transducer and activator of transcription 2	20847	383	746	494	1024	1.95	1.29	2.67	1.51	0.001
1425156_at	Gbp6	guanylate binding protein 6	229900	59	166	110	203	2.84	1.88	3.46	1.51	0.003
1424148_a_at	AW049765	expressed sequence AW049765	106766	132	335	224	342	2.53	1.69	2.59	1.50	0.009
1449875_s_at	H2-T10	histocompatibility 2, T region locus 10	15024	1735	2878	1932	3688	1.66	1.11	2.13	1.49	0.001
1425394_at	BC023105	cDNA sequence BC023105	207269	107	142	95	220	1.33	0.89	2.06	1.48	0.03
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	1.48	0.002
1448775_at	Ifi203	interferon activated gene 203	15950	67	179	121	291	2.67	1.81	4.34	1.48	0.009
1417141_at	Igtp	interferon gamma induced GTPase	16145	347	847	581	1144	2.44	1.67	3.30	1.46	0.003
1445897_s_at	Ifi35	interferon-induced protein 35	70110	2919	5011	3451	6124	1.72	1.18	2.10	1.45	0.002
1450484_a_at	Tyki	thymidylate kinase family LPS-inducible member	22169	88	165	114	342	1.88	1.30	3.90	1.45	0.04

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1450165_at	Slfn2	schlafen 2	20556	116	193	134	453	1.67	1.16	3.92	1.45	0.003
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	577	1223	860	1699	2.12	1.49	2.94	1.42	0.0006
1422557_s_at	Mt1	metallothionein 1	17748	2025	4960	3511	6722	2.45	1.73	3.32	1.41	0.003
1455500_at	Rnf213	ring finger protein 213	629974	1013	1795	1276	3032	1.77	1.26	2.99	1.41	0.004
1417189_at	Psme2	proteasome (prosome, macropain) 28 subunit, beta	19188	2076	3611	2568	4384	1.74	1.24	2.11	1.41	0.0001
1425719_a_at	Nmi	N-myc (and STAT) interactor	64685	282	549	390	788	1.94	1.38	2.79	1.41	0.002
1426774_at	Parp12	poly (ADP-ribose) polymerase family, member 12	243771	800	1520	1082	2156	1.90	1.35	2.70	1.40	0.0004
1439825_at	Dtx3l	deltex 3-like (Drosophila)	209200	181	407	289	506	2.25	1.60	2.80	1.40	0.0002
1456890_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	299	693	496	978	2.32	1.66	3.27	1.40	0.0001
1427932_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	319202	974	1662	1191	2115	1.71	1.22	2.17	1.39	0.001
1431095_a_at	Herc5	hect domain and RLD 5	67138	374	548	395	762	1.47	1.06	2.04	1.39	0.03
1438498_at	Zmynd15	zinc finger, MYND-type containing 15	574428	63	137	99	183	2.16	1.57	2.90	1.38	0.03
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1074	780	1271	4.00	2.91	4.73	1.38	<0.0001
1422782_s_at	Tlr3	toll-like receptor 3	142980	425	769	568	970	1.81	1.34	2.28	1.35	0.0008
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1015	1759	1305	2341	1.73	1.29	2.31	1.35	0.003
1451775_s_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	207	376	279	532	1.81	1.35	2.57	1.34	0.0002
1454783_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	151	349	261	535	2.31	1.73	3.54	1.34	0.0003
1448940_at	Trim21	tripartite motif protein 21	20821	456	819	617	1096	1.79	1.35	2.40	1.33	0.0006
1421358_at	H2-M3	histocompatibility 2, M region locus 3	14991	440	771	582	971	1.75	1.32	2.21	1.33	0.0001
1428660_s_at	Tor3a	torsin family 3, member A	30935	507	787	596	1039	1.55	1.18	2.05	1.32	0.001
1454974_at	Ntn1	netrin 1	18208	254	572	433	828	2.25	1.71	3.26	1.32	0.008
1450387_s_at	Ak3l1	adenylate kinase 3 alpha-like 1	11639	760	1344	1020	1631	1.77	1.34	2.15	1.32	0.03
1460603_at	Samd9l	sterile alpha motif domain containing 9-like	209086	1750	3161	2401	4144	1.81	1.37	2.37	1.32	0.002
1427164_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	65	163	124	271	2.51	1.91	4.16	1.31	0.003
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	375	779	595	1031	2.08	1.59	2.75	1.31	0.007
1421217_a_at	Lgals9	lectin, galactose binding, soluble 9	16859	2063	3331	2545	4549	1.61	1.23	2.21	1.31	0.02
1436183_at	9830115L13 Rik	RIKEN cDNA 9830115L13 gene	319257	969	1579	1230	2120	1.63	1.27	2.19	1.28	0.008

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1429159_at	Itih5	inter-alpha (globulin) inhibitor H5	209378	78	119	93	285	1.53	1.19	3.66	1.28	0.005
1427091_at	Znfx1	zinc finger, NFX1-type containing 1	98999	367	593	463	740	1.61	1.26	2.01	1.28	0.001
1427165_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	204	383	301	550	1.87	1.47	2.69	1.27	0.0002
1421236_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	384	634	508	780	1.65	1.32	2.03	1.25	0.04
1444242_at				722	1213	974	1517	1.68	1.35	2.10	1.24	0.01
1422573_at	Ampd3	AMP deaminase 3	11717	299	624	511	1035	2.09	1.71	3.47	1.22	0.007
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	489	1330	1090	2311	2.72	2.23	4.72	1.22	0.001
1421830_at	Ak3l1	adenylate kinase 3 alpha-like 1	11639	653	1145	940	1375	1.75	1.44	2.11	1.22	0.02
1416016_at	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	21354	446	715	588	1074	1.61	1.32	2.41	1.22	0.0003
1426511_at	Susd2	sushi domain containing 2	71733	231	331	274	519	1.43	1.19	2.25	1.21	0.02
1422754_at	Tmod1	tropomodulin 1	21916	173	315	267	355	1.82	1.54	2.05	1.18	0.001
1455581_x_at	Samd9l	sterile alpha motif domain containing 9-like	209086	891	1413	1204	1875	1.59	1.35	2.11	1.17	0.008
1417978_at	Eif4e3	eukaryotic translation initiation factor 4E member 3	66892	241	348	297	521	1.44	1.23	2.16	1.17	0.04
1420913_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	1486	2355	2018	3070	1.58	1.36	2.07	1.17	<0.0001
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1245	2520	2170	4150	2.02	1.74	3.33	1.16	0.0004
1453913_a_at	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	21355	424	673	582	1000	1.59	1.37	2.36	1.16	0.0008
1441811_x_at	Tmem176a	transmembrane protein 176A	66058	669	1659	1436	2021	2.48	2.15	3.02	1.16	0.02
1427689_a_at	Tnip1	TNFAIP3 interacting protein 1	57783	1491	2342	2027	3343	1.57	1.36	2.24	1.16	0.001
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3862	5953	5180	8053	1.54	1.34	2.09	1.15	0.02
1448306_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	895	3742	3262	5965	4.18	3.64	6.66	1.15	<0.0001
1456586_x_at	Mvp	major vault protein	78388	731	1307	1146	1582	1.79	1.57	2.16	1.14	0.0005
1431843_a_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	53	207	183	430	3.94	3.48	8.19	1.13	0.004
1451544_at	Tapbpl	TAP binding protein-like	213233	218	325	287	496	1.49	1.32	2.28	1.13	0.002

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1438561_x_at	Tmem180	transmembrane protein 180	75146	121	273	243	274	2.26	2.01	2.27	1.12	0.02
1417130_s_at	Angptl4	angiopoietin-like 4	57875	404	1039	935	1402	2.57	2.32	3.47	1.11	0.02
1452840_at	1500009L16 Rik	RIKEN cDNA 1500009L16 gene	69784	301	430	388	636	1.43	1.29	2.11	1.11	0.03
1449731_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	1466	5182	4695	8323	3.54	3.20	5.68	1.10	<0.0001
1423909_at	Tmem176a	transmembrane protein 176A	66058	1153	2874	2613	3590	2.49	2.27	3.11	1.10	0.02
1415899_at	Junb	Jun-B oncogene	16477	340	743	680	1038	2.19	2.00	3.06	1.09	0.0001
1417470_at	Apobec3	apolipoprotein B editing complex 3	80287	175	282	259	427	1.61	1.48	2.44	1.09	0.008
1438157_s_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	2808	8462	7853	11604	3.01	2.80	4.13	1.08	<0.0001
1420089_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	333	600	560	877	1.80	1.68	2.63	1.07	0.0008
1448436_a_at	Irf1	interferon regulatory factor 1	16362	806	1295	1220	1777	1.61	1.51	2.20	1.06	<0.0001
1450672_a_at	Trex1	three prime repair exonuclease 1	22040	288	454	430	702	1.58	1.49	2.44	1.06	0.003
1417719_at	Sap30	sin3 associated polypeptide	60406	228	352	333	513	1.54	1.46	2.24	1.06	0.003
1425603_at	Tmem176a	transmembrane protein 176A	66058	982	2377	2302	3272	2.42	2.34	3.33	1.03	0.01
1420088_at	Nfkbia	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	1.03	<0.0001
1433930_at	Hpse	heparanase	15442	173	295	286	453	1.71	1.66	2.62	1.03	0.02
1418004_a_at	Tmem176b	transmembrane protein 176B	65963	3116	5364	5248	6534	1.72	1.68	2.10	1.02	0.01
1439475_at	2810487A22 Rik	RIKEN cDNA 2810487A22 gene	72807	138	266	262	322	1.93	1.90	2.33	1.01	0.009
1455292_x_at	Rsl1	regulator of sex limited protein 1	380855	206	370	368	467	1.80	1.79	2.27	1.01	0.02

Table SIII.a2. α-LTβR effect > TNF effect.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change L/T	p Value of ANOVA
1446190_at	Dclk1	doublecortin-like kinase 1	13175	169	201	514	406	1.19	3.04	2.40	2.56	0.01
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	40	98	246	407	2.46	6.20	10.27	2.50	0.02
1435940_at	AI836758	expressed sequence AI836758	99719	154	487	1156	1073	3.16	7.52	6.98	2.38	0.02
1424270_at	Dclk1	doublecortin-like kinase 1	13175	134	507	1154	1056	3.77	8.59	7.86	2.27	0.01
1436002_at	C230013L11 Rik	RIKEN cDNA C230013L11 gene	319712	78	292	645	1039	3.75	8.31	13.37	2.22	0.02
1450863_a_at	Dclk1	doublecortin-like kinase 1	13175	422	788	1628	1566	1.87	3.86	3.71	2.08	0.01
1423125_at	Dclk1	doublecortin-like kinase 1	13175	164	243	479	455	1.49	2.93	2.79	1.96	0.02
1424271_at	Dclk1	doublecortin-like kinase 1	13175	840	2240	4326	4604	2.67	5.15	5.48	1.92	0.02
1422562_at	Rrad	Ras-related associated with diabetes	56437	26	125	239	260	4.73	9.07	9.86	1.92	0.008
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	1.79	0.0009
1451289_at	Dclk1	doublecortin-like kinase 1	13175	430	1366	2408	2459	3.18	5.61	5.72	1.75	0.02
1422528_a_at	Zfp36l1	zinc finger protein 36, C3H type-like 1	12192	571	609	1036	1181	1.07	1.82	2.07	1.69	0.003
1436659_at	Dclk1	doublecortin-like kinase 1	13175	1345	4106	6778	6781	3.05	5.04	5.04	1.64	0.03
1419156_at	Sox4	SRY-box containing gene 4	20677	467	796	1285	1347	1.71	2.75	2.89	1.61	0.001
1436838_x_at	Cotl1	coactosin-like 1 (Dictyostelium)	72042	129	202	292	370	1.57	2.27	2.87	1.45	0.006
1419157_at	Sox4	SRY-box containing gene 4	20677	580	1087	1552	1419	1.88	2.68	2.45	1.43	0.0006
1419155_a_at	Sox4	SRY-box containing gene 4	20677	1019	1425	1967	2057	1.40	1.93	2.02	1.39	0.01
1428384_at	D4Bwg0951e	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	52829	2224	3310	4469	5124	1.49	2.01	2.30	1.35	0.05
1432478_a_at	Ibrdc3	IBR domain containing 3	75234	202	210	284	404	1.04	1.40	2.00	1.35	0.007
1449370_at	Sox4	SRY-box containing gene 4	20677	273	490	654	865	1.79	2.40	3.17	1.33	0.0002
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1009	1519	2010	2825	1.51	1.99	2.80	1.32	0.005
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	1.30	0.004
1417853_at	Clca1	chloride channel calcium activated 1	12722	142	298	367	541	2.11	2.59	3.82	1.23	0.005
1448167_at	Ifngr1	interferon gamma receptor 1	15979	1036	1513	1841	2261	1.46	1.78	2.18	1.22	0.006
1429128_x_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	213	359	436	500	1.68	2.04	2.34	1.22	0.01
1442819_at	Rhbdl2	rhomboid, veinlet-like 2 (Drosophila)	230726	159	328	392	501	2.06	2.46	3.15	1.19	<0.0001

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change L/T	p Value of ANOVA
1449204_at	Gjb5	gap junction membrane channel protein beta 5	14622	51	135	160	264	2.66	3.15	5.20	1.19	0.02
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	307	361	547	1.28	1.51	2.28	1.18	0.02
1435488_at	1110019K23 Rik	RIKEN cDNA 1110019K23 gene	665563	450	834	977	1159	1.85	2.17	2.58	1.18	0.004
1455724_at				348	573	666	797	1.64	1.91	2.29	1.16	0.0002
1440831_at	Bach1	BTB and CNC homology 1	12013	921	1210	1391	2025	1.31	1.51	2.20	1.15	0.001
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	1.15	0.0004
1457780_at	Stx11	syntaxin 11	74732	246	468	523	943	1.90	2.13	3.84	1.12	<0.0001
1435396_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	145	208	230	500	1.44	1.59	3.45	1.10	0.04
1437087_at	2210408K08 Rik	RIKEN cDNA 2210408K08 gene	108743	424	551	604	900	1.30	1.42	2.12	1.10	<0.0001
1417822_at	D17H6S56E-5	DNA segment, Chr 17, human D6S56E 5	110956	1031	1312	1432	2126	1.27	1.39	2.06	1.09	0.002
1418587_at	Traf3	Tnf receptor-associated factor 3	22031	1203	2026	2211	2504	1.68	1.84	2.08	1.09	0.0001
1457270_at	B230343A10 Rik	RIKEN cDNA B230343A10 gene	320013	131	228	248	414	1.73	1.89	3.15	1.09	0.004
1417821_at	D17H6S56E-5	DNA segment, Chr 17, human D6S56E 5	110956	704	1004	1091	1500	1.43	1.55	2.13	1.09	0.005
1434322_at	Micall2	MICAL-like 2	231830	161	319	344	422	1.98	2.13	2.62	1.08	0.01
1417346_at	Pycard	PYD and CARD domain containing	66824	183	234	250	387	1.28	1.37	2.11	1.06	0.03
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	417	869	923	2071	2.08	2.21	4.96	1.06	0.0005
1426063_a_at	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	14579	60	117	124	385	1.94	2.05	6.37	1.05	0.02
1426501_a_at	T2bp	Traf2 binding protein	211550	156	277	291	360	1.78	1.87	2.31	1.05	0.002
1422742_at	Hivep1	human immunodeficiency virus type I enhancer binding protein 1	110521	399	620	642	888	1.55	1.61	2.22	1.03	0.0003
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	90	254	259	455	2.81	2.87	5.04	1.02	0.02
1423557_at	Ifngr2	interferon gamma receptor 2	15980	1091	1797	1816	2198	1.65	1.66	2.02	1.01	0.004

Table SIII.a3. TNF plus α-LTβR hyperinduction.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of ANOVA	p Value of Synergy	Synergy
1460407_at	Spib	Spi-B transcription factor (Spi-1/PU.1 related)	272382	85	98	132	377	1.15	1.55	4.43	0.05	0.03	5.60
1437932_a_at	Cldn1	claudin 1	12737	41	42	100	269	1.03	2.43	6.56	0.03	0.04	3.93
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.009	0.0003	3.22
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	<0.0001	0.005	3.13
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.0003	0.01	3.07
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	0.01	0.005	2.97
1449009_at	Tgtp	T-cell specific GTPase	21822	345	1748	602	3794	5.06	1.74	10.99	0.0006	0.04	2.24
1434380_at	Gbp6	guanylate binding protein 6	229900	265	677	333	1229	2.55	1.26	4.64	0.002	0.01	2.16
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	0.0007	0.03	2.09
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	0.0008	0.04	1.99
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	139	272	219	556	1.95	1.57	4.00	0.0001	0.01	1.98
1448898_at	Ccl9	chemokine (C-C motif) ligand 9	20308	452	649	1088	2051	1.44	2.41	4.54	0.0009	0.01	1.96
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	55932	268	1594	533	3340	5.95	1.99	12.46	0.0006	0.02	1.95
1453228_at	Stx11	syntaxin 11	74732	362	586	693	1409	1.62	1.92	3.89	<0.0001	0.004	1.92
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	866	1164	1914	3403	1.34	2.21	3.93	0.0009	0.02	1.92
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	334	1109	663	2291	3.32	1.98	6.85	0.0006	0.03	1.89
1439831_at	EG240327	predicted gene, EG240327	240327	84	204	119	370	2.42	1.41	4.41	0.004	0.01	1.87
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	164	459	345	1012	2.79	2.10	6.16	0.001	0.03	1.80
1449195_s_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	99	585	247	1206	5.91	2.49	12.19	0.0001	0.03	1.79
1453757_at	Herc5	hect domain and RLD 5	67138	99	200	129	330	2.01	1.29	3.32	0.002	0.01	1.78
1415804_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	215	325	421	805	1.52	1.96	3.75	0.03	0.01	1.78
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	1358	3864	1711	6053	2.84	1.26	4.46	0.004	0.03	1.76
1419043_a_at	Iigp1	interferon inducible GTPase 1	60440	483	1569	702	2624	3.25	1.45	5.44	0.005	0.01	1.76

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of ANOVA	p Value of Synergy	Synergy
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	67	398	365	1156	5.96	5.47	17.31	0.003	0.04	1.74
1438716_at	AI451617	expressed sequence AI451617	209387	174	270	202	389	1.55	1.16	2.24	0.001	0.05	1.73
1419042_at	Iigp1	interferon inducible GTPase 1	60440	262	979	417	1676	3.73	1.59	6.39	0.005	0.02	1.72
1424067_at	Icam1	intercellular adhesion molecule	15894	401	1742	1455	4417	4.35	3.63	11.03	0.0008	0.01	1.71
1417300_at	Smpdl3b	sphingomyelin phosphodiesterase, acid-like 3B	100340	148	274	175	402	1.85	1.19	2.72	0.003	0.05	1.69
1418191_at	Usp18	ubiquitin specific peptidase 18	24110	458	1240	548	1800	2.71	1.20	3.93	0.02	0.04	1.68
1451777_at	BC013672	cDNA sequence BC013672	234311	30	171	59	273	5.70	1.97	9.09	0.01	0.02	1.67
1460469_at	Tnfrsf9	tumor necrosis factor receptor superfamily, member 9	21942	49	356	139	699	7.32	2.86	14.35	0.0002	0.002	1.64
1450783_at	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	15957	536	2411	913	3923	4.50	1.70	7.31	0.01	0.03	1.64
1460444_at	Arrb1	arrestin, beta 1	109689	172	212	259	372	1.24	1.51	2.17	0.02	0.008	1.59
1419209_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	107	760	369	1530	7.11	3.45	14.33	0.004	0.04	1.56
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	117	783	291	1419	6.71	2.49	12.17	<0.0001	0.003	1.56
1423555_a_at	Ifi44	interferon-induced protein 44	99899	285	1749	526	2917	6.13	1.84	10.22	0.008	0.03	1.55
1429947_a_at	Zbp1	Z-DNA binding protein 1	58203	15	181	29	289	11.83	1.90	18.87	0.01	0.04	1.53
1438676_at	Mpa2l	macrophage activation 2 like	100702	64	249	96	379	3.90	1.51	5.94	0.001	0.04	1.52
1429310_at	Flrt3	fibronectin leucine rich transmembrane protein 3	71436	119	150	240	342	1.26	2.02	2.87	0.03	0.03	1.51
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	<0.0001	0.0006	1.50

Table SIII.b1. TNF effect > α-LTβR effect (Top20).

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1448881_at	Hp	haptoglobin	15439	85	1148	130	1212	13.56	1.53	14.32	8.85	0.003
1450826_a_at	Saa3	serum amyloid A 3	20210	95	867	101	1015	9.11	1.06	10.66	8.62	0.008
1447927_at	Mpa2l	macrophage activation 2 like	100702	11	387	63	798	36.65	5.95	75.60	6.16	0.004
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	484	7251	1624	9607	14.99	3.36	19.86	4.47	<0.0001
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	103	1996	453	2899	19.47	4.41	28.28	4.41	0.0002
1427747_a_at	Lcn2	lipocalin 2	16819	334	3132	724	3515	9.39	2.17	10.54	4.33	0.02
1435906_x_at	Gbp2	guanylate nucleotide binding protein 2	14469	291	2526	660	4228	8.68	2.27	14.53	3.82	0.0002
1424921_at	Brd4	bromodomain containing 4	57261	755	3507	987	3990	4.65	1.31	5.29	3.55	0.0002
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	3.17	0.01
1450424_a_at	Il18bp	interleukin 18 binding protein	16068	59	298	106	352	5.07	1.81	5.99	2.80	0.0009
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	84	692	247	1463	8.25	2.95	17.45	2.80	0.0005
1424518_at	BC020489	cDNA sequence BC020489	223672	130	443	160	563	3.41	1.23	4.33	2.76	0.02
1418580_at	Rtp4	receptor transporter protein 4	67775	724	3892	1431	5403	5.37	1.98	7.46	2.72	0.003
1453304_s_at	Ly6e	lymphocyte antigen 6 complex, locus E	17069	559	2775	1030	4701	4.96	1.84	8.40	2.70	0.0001
1448550_at	Lbp	lipopolysaccharide binding protein	16803	142	482	188	468	3.39	1.33	3.30	2.56	0.03
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	38	300	117	444	7.86	3.07	11.63	2.56	0.02
1451683_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	943	3294	1290	4254	3.49	1.37	4.51	2.55	0.0001
1420499_at	Gch1	GTP cyclohydrolase 1	14528	175	554	224	563	3.16	1.28	3.21	2.47	0.01
1417961_a_at	Trim30	tripartite motif protein 30	20128	507	1271	548	1691	2.51	1.08	3.34	2.32	0.01
1451821_a_at	Sp100	nuclear antigen Sp100	20684	66	186	81	307	2.83	1.23	4.66	2.29	0.001

Table SIII.b2. α-LTβR effect > TNF effect (Top20).

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change L/T	p Value of ANOVA
1446190_at	Dclk1	doublecortin-like kinase 1	13175	169	201	514	406	1.19	3.04	2.40	2.56	0.01
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	40	98	246	407	2.46	6.20	10.27	2.50	0.02
1435940_at	AI836758	expressed sequence AI836758	99719	154	487	1156	1073	3.16	7.52	6.98	2.38	0.02
1422562_at	Rrad	Ras-related associated with diabetes	56437	26	125	239	260	4.73	9.07	9.86	1.92	0.008
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	1.79	0.0009
1422528_a_at	Zfp36l1	zinc finger protein 36, C3H type-like 1	12192	571	609	1036	1181	1.07	1.82	2.07	1.69	0.003
1419156_at	Sox4	SRY-box containing gene 4	20677	467	796	1285	1347	1.71	2.75	2.89	1.61	0.001
1436838_x_at	Cotl1	coactosin-like 1 (Dictyostelium)	72042	129	202	292	370	1.57	2.27	2.87	1.45	0.006
1428384_at	D4Bwg0951e	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	52829	2224	3310	4469	5124	1.49	2.01	2.30	1.35	0.05
1432478_a_at	Ibrdc3	IBR domain containing 3	75234	202	210	284	404	1.04	1.40	2.00	1.35	0.007
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1009	1519	2010	2825	1.51	1.99	2.80	1.32	0.005
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	1.30	0.004
1417853_at	Clca1	chloride channel calcium activated 1	12722	142	298	367	541	2.11	2.59	3.82	1.23	0.005
1448167_at	Ifngr1	interferon gamma receptor 1	15979	1036	1513	1841	2261	1.46	1.78	2.18	1.22	0.006
1442819_at	Rhbdl2	rhomboid, veinlet-like 2 (Drosophila)	230726	159	328	392	501	2.06	2.46	3.15	1.19	<0.0001
1449204_at	Gjb5	gap junction membrane channel protein beta 5	14622	51	135	160	264	2.66	3.15	5.20	1.19	0.02
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	307	361	547	1.28	1.51	2.28	1.18	0.02
1455724_at	Prrg1	proline rich Gla (G-carboxyglutamic acid) 1	546336	348	573	666	797	1.64	1.91	2.29	1.16	0.0002
1440831_at	Bach1	BTB and CNC homology 1	12013	921	1210	1391	2025	1.31	1.51	2.20	1.15	0.001
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	1.15	0.0004

Table SIII.b3. TNF plus α-LTβR hyperinduction (Top20).

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	p Value of ANOVA	p Value of Synergy	Synergy
1460407_at	Spib	Spi-B transcription factor (Spi-1/PU.1 related)	272382	85	98	132	377	1.15	1.55	4.43	0.05	0.03	5.60
1437932_a_at	Cldn1	claudin 1	12737	41	42	100	269	1.03	2.43	6.56	0.03	0.04	3.93
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.009	0.0003	3.22
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	<0.0001	0.005	3.13
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.0003	0.01	3.07
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	0.01	0.005	2.97
1449009_at	Tgtp	T-cell specific GTPase	21822	345	1748	602	3794	5.06	1.74	10.99	0.0006	0.04	2.24
1434380_at	Gbp6	guanylate binding protein 6	229900	265	677	333	1229	2.55	1.26	4.64	0.002	0.01	2.16
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	0.0007	0.03	2.09
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	0.0008	0.04	1.99
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	139	272	219	556	1.95	1.57	4.00	0.0001	0.01	1.98
1448898_at	Ccl9	chemokine (C-C motif) ligand 9	20308	452	649	1088	2051	1.44	2.41	4.54	0.0009	0.01	1.96
1418392_a_at	Gbp3	guanylate nucleotide binding protein 3	55932	268	1594	533	3340	5.95	1.99	12.46	0.0006	0.02	1.95
1453228_at	Stx11	syntaxin 11	74732	362	586	693	1409	1.62	1.92	3.89	<0.0001	0.004	1.92
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	334	1109	663	2291	3.32	1.98	6.85	0.0006	0.03	1.89
1439831_at	EG240327	predicted gene, EG240327	240327	84	204	119	370	2.42	1.41	4.41	0.004	0.01	1.87
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	164	459	345	1012	2.79	2.10	6.16	0.001	0.03	1.80
1449195_s_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	99	585	247	1206	5.91	2.49	12.19	0.0001	0.03	1.79
1453757_at	Herc5	hect domain and RLD 5	67138	99	200	129	330	2.01	1.29	3.32	0.002	0.01	1.78
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	1358	3864	1711	6053	2.84	1.26	4.46	0.004	0.03	1.76

Table SIII.c. Interferon signature.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1420088_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	1.03	<0.0001
1438157_s_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	2808	8462	7853	11604	3.01	2.80	4.13	1.08	<0.0001
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	2.01	<0.0001
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1841	7170	4474	10628	3.89	2.43	5.77	1.60	<0.0001
1428942_at	Mt2	metallothionein 2	17750	1717	7241	4059	9659	4.22	2.36	5.63	1.78	0.001
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	484	7251	1624	9607	14.99	3.36	19.86	4.47	<0.0001
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2172	6795	3180	8778	3.13	1.46	4.04	2.14	<0.0001
1449731_s_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	1466	5182	4695	8323	3.54	3.20	5.68	1.10	<0.0001
1421812_at	Tapbp	TAP binding protein	21356	2751	6688	3917	8239	2.43	1.42	2.99	1.71	<0.0001
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1874	6157	2927	8183	3.29	1.56	4.37	2.10	<0.0001
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3862	5953	5180	8053	1.54	1.34	2.09	1.15	0.02
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	2.07	0.02
1422557_s_at	Mt1	metallothionein 1	17748	2025	4960	3511	6722	2.45	1.73	3.32	1.41	0.003
1448380_at	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	19039	2304	5060	2725	6328	2.20	1.18	2.75	1.86	0.002
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	3.96	0.0008
1415989_at	Vcam1	vascular cell adhesion molecule 1	22329	838	3396	2185	6175	4.05	2.61	7.37	1.55	<0.0001
1445897_s_at	Ifi35	interferon-induced protein 35	70110	2919	5011	3451	6124	1.72	1.18	2.10	1.45	0.002
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	1358	3864	1711	6053	2.84	1.26	4.46	2.26	0.004
1448306_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	895	3742	3262	5965	4.18	3.64	6.66	1.15	<0.0001
1418580_at	Rtp4	receptor transporter protein 4	67775	724	3892	1431	5403	5.37	1.98	7.46	2.72	0.003
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	5.69	<0.0001
1451314_a_at	Vcam1	vascular cell adhesion molecule 1	22329	559	3670	1363	5081	6.56	2.44	9.08	2.69	<0.0001
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1254	3683	1665	5016	2.94	1.33	4.00	2.21	0.0002

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1453304_s_at	Ly6e	lymphocyte antigen 6 complex, locus E	17069	559	2775	1030	4701	4.96	1.84	8.40	2.70	0.0001
1418825_at	Irgm1	immunity-related GTPase family M member 1	15944	2177	4176	2663	4619	1.92	1.22	2.12	1.57	0.03
1421217_a_at	Lgals9	lectin, galactose binding, soluble 9	16859	2063	3331	2545	4549	1.61	1.23	2.21	1.31	0.02
1424067_at	Icam1	intercellular adhesion molecule 1	15894	401	1742	1455	4417	4.35	3.63	11.03	1.20	0.0008
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	946	2819	1566	4274	2.98	1.66	4.52	1.80	0.0009
1451683_x_at	H2-K1	histocompatibility 2, K1, K region	14972	943	3294	1290	4254	3.49	1.37	4.51	2.55	0.0001
1435906_x_at	Gbp2	guanylate binding protein 2	14469	291	2526	660	4228	8.68	2.27	14.53	3.82	0.0002
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1245	2520	2170	4150	2.02	1.74	3.33	1.16	0.0004
1460603_at	Samd9l	sterile alpha motif domain containing 9-like	209086	1750	3161	2401	4144	1.81	1.37	2.37	1.32	0.002
1424921_at	Brd4	bromodomain containing 4	57261	755	3507	987	3990	4.65	1.31	5.29	3.55	0.0002
1450783_at	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	15957	536	2411	913	3923	4.50	1.70	7.31	2.64	0.01
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	871	2393	1567	3886	2.75	1.80	4.46	1.53	0.0003
1449009_at	Tgtp	T-cell specific GTPase	21822	345	1748	602	3794	5.06	1.74	10.99	2.90	0.0006
1418240_at	Gbp2	guanylate binding protein 2	14469	292	2362	690	3721	8.09	2.36	12.75	3.42	<0.0001
1424948_x_at	H2-K1	histocompatibility 2, K1, K region	14972	417	2437	696	3628	5.84	1.67	8.70	3.50	<0.0001
1418392_a_at	Gbp3	guanylate binding protein 3	55932	268	1594	533	3340	5.95	1.99	12.46	2.99	0.0006
1431591_s_at	677168	predicted gene, 677168	677168	547	2194	809	3154	4.01	1.48	5.76	2.71	0.003
1420913_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	1486	2355	2018	3070	1.58	1.36	2.07	1.17	<0.0001
1423555_a_at	Ifi44	interferon-induced protein 44	99899	285	1749	526	2917	6.13	1.84	10.22	3.33	0.008
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	103	1996	453	2899	19.47	4.41	28.28	4.41	0.0002
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1009	1519	2010	2825	1.51	1.99	2.80	0.76	0.005
1452349_x_at	Ifi205	interferon activated gene 205	226695	651	1826	971	2806	2.81	1.49	4.31	1.88	0.003
1443698_at	Xaf1	XIAP associated factor 1	327959	796	1926	1036	2663	2.42	1.30	3.34	1.86	0.01
1450378_at	Tapbp	TAP binding protein	21356	802	1871	1209	2627	2.33	1.51	3.27	1.55	0.0001
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	0.77	0.004
1450033_a_at	Stat1	signal transducer and activator of transcription 1	20846	588	1804	997	2544	3.07	1.70	4.33	1.81	0.001
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1015	1759	1305	2341	1.73	1.29	2.31	1.35	0.003

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	489	1330	1090	2311	2.72	2.23	4.72	1.22	0.001
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	3.66	0.0007
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	334	1109	663	2291	3.32	1.98	6.85	1.67	0.0006
1448167_at	Ifngr1	interferon gamma receptor 1	15979	1036	1513	1841	2261	1.46	1.78	2.18	0.82	0.006
1423557_at	Ifngr2	interferon gamma receptor 2	15980	1091	1797	1816	2198	1.65	1.66	2.02	0.99	0.004
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	629	1582	876	2178	2.52	1.39	3.47	1.81	0.003
1426774_at	Parp12	poly (ADP-ribose) polymerase family, member 12	243771	800	1520	1082	2156	1.90	1.35	2.70	1.40	0.0004
1436183_at	9830115L13 Rik	RIKEN cDNA 9830115L13 gene	319257	969	1579	1230	2120	1.63	1.27	2.19	1.28	0.008
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	417	869	923	2071	2.08	2.21	4.96	0.94	0.0005
1417793_at	Iigp2	interferon inducible GTPase 2	54396	423	1103	632	1864	2.61	1.49	4.40	1.74	0.0006
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	2.08	<0.0001
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	1.65	<0.0001
1418191_at	Usp18	ubiquitin specific peptidase 18	24110	458	1240	548	1800	2.71	1.20	3.93	2.26	0.02
1448436_a_at	Irf1	interferon regulatory factor 1	16362	806	1295	1220	1777	1.61	1.51	2.20	1.06	<0.0001
1420915_at	Stat1	signal transducer and activator of transcription 1	20846	472	1320	718	1775	2.79	1.52	3.76	1.84	0.0008
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	577	1223	860	1699	2.12	1.49	2.94	1.42	0.0006
1456586_x_at	Mvp	major vault protein	78388	731	1307	1146	1582	1.79	1.57	2.16	1.14	0.0005
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.6	0.55	0.0003
1452348_s_at	Ifi205	interferon activated gene 205	226695	352	972	564	1545	2.76	1.60	4.38	1.72	0.004
1419209_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	107	760	369	1530	7.11	3.45	14.33	2.06	0.004
1444242_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	722	1213	974	1517	1.68	1.35	2.10	1.24	0.01
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	0.87	0.0004
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	117	783	291	1419	6.71	2.49	12.17	2.69	<0.0001
1457644_s_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	292	794	504	1303	2.72	1.73	4.46	1.58	0.006
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	865	384	1283	3.03	1.35	4.49	2.25	0.004
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1074	780	1271	4.00	2.91	4.73	1.38	<0.0001

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1448881_at	Hp	haptoglobin	15439	85	1148	130	1212	13.56	1.53	14.32	8.85	0.003
1449195_s_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	99	585	247	1206	5.91	2.49	12.19	2.37	0.0001
1417141_at	Igtp	interferon gamma induced GTPase	16145	347	847	581	1144	2.44	1.67	3.30	1.46	0.003
1424857_a_at	Trim34	tripartite motif-containing 34	94094	429	850	538	1119	1.98	1.26	2.61	1.58	0.01
1448940_at	Trim21	tripartite motif-containing 21	20821	456	819	617	1096	1.79	1.35	2.40	1.33	0.0006
1452231_x_at	Ifi205	interferon activated gene 205	226695	184	656	317	1090	3.57	1.73	5.94	2.07	0.002
1416016_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	446	715	588	1074	1.61	1.32	2.41	1.22	0.0003
1428660_s_at	Tor3a	torsin family 3, member A	30935	507	787	596	1039	1.55	1.18	2.05	1.32	0.001
1422573_at	Ampd3	adenosine monophosphate deaminase 3	11717	299	624	511	1035	2.09	1.71	3.47	1.22	0.007
1450403_at	Stat2	signal transducer and activator of transcription 2	20847	383	746	494	1024	1.95	1.29	2.67	1.51	0.001
1453913_a_at	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	21355	424	673	582	1000	1.59	1.37	2.36	1.16	0.0008
1456890_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	299	693	496	978	2.32	1.66	3.27	1.40	0.0001
1422782_s_at	Tlr3	toll-like receptor 3	142980	425	769	568	970	1.81	1.34	2.28	1.35	0.0008
1420089_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	333	600	560	877	1.80	1.68	2.63	1.07	0.0008
1438037_at	Herc5	hect domain and RLD 5	67138	264	591	364	855	2.24	1.38	3.25	1.62	0.006
1426278_at	Ifi27	interferon, alpha-inducible protein 27	76933	330	688	336	813	2.08	1.02	2.46	2.05	0.007
1450534_x_at	H2-K1	histocompatibility 2, K1, K region	14972	224	773	376	808	3.45	1.68	3.61	2.06	0.0004
1415804_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	215	325	421	805	1.52	1.96	3.75	0.77	0.03
1425719_a_at	Nmi	N-myc (and STAT) interactor	64685	282	549	390	788	1.94	1.38	2.79	1.41	0.002
1431095_a_at	Herc5	hect domain and RLD 5	67138	374	548	395	762	1.47	1.06	2.04	1.39	0.03
1426906_at	Ifi205	interferon activated gene 205	226695	120	482	223	748	4.02	1.86	6.23	2.16	0.004
1427091_at	Znfx1	zinc finger, NFX1-type containing 1	98999	367	593	463	740	1.61	1.26	2.01	1.28	0.001
1450672_a_at	Trex1	three prime repair exonuclease 1	22040	288	454	430	702	1.58	1.49	2.44	1.06	0.003
1426324_at	H2-K1	histocompatibility 2, K1, K region	14972	97	494	291	694	5.11	3.01	7.18	1.70	0.003
1421911_at	Stat2	signal transducer and activator of transcription 2	20847	250	472	304	653	1.89	1.22	2.61	1.56	0.002

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	31	270	173	637	8.83	5.65	20.80	1.56	0.0003
1452178_at	Plec1	plectin 1	18810	230	476	288	589	2.07	1.25	2.56	1.65	0.0004
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	3.17	0.01
1420499_at	Gch1	GTP cyclohydrolase 1	14528	175	554	224	563	3.16	1.28	3.21	2.47	0.01
1424518_at	Apol9a	apolipoprotein L 9a	223672	130	443	160	563	3.41	1.23	4.33	2.76	0.02
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	139	272	219	556	1.95	1.57	4.00	1.24	0.0001
1427165_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	204	383	301	550	1.87	1.47	2.69	1.27	0.0002
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	307	361	547	1.28	1.51	2.28	0.85	0.02
1454783_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	151	349	261	535	2.31	1.73	3.54	1.34	0.0003
1451775_s_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	207	376	279	532	1.81	1.35	2.57	1.34	0.0002
1439825_at	Dtx3l	deltex 3-like (Drosophila)	209200	181	407	289	506	2.25	1.60	2.80	1.40	0.0002
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	38	300	117	444	7.86	3.07	11.63	2.56	0.02
1417470_at	Apobec3	apolipoprotein B editing complex 3	80287	175	282	259	427	1.61	1.48	2.44	1.09	0.008
1434322_at	Micall2	MICAL-like 2	231830	161	319	344	422	1.98	2.13	2.62	0.93	0.01
1429692_s_at	Gch1	GTP cyclohydrolase 1	14528	177	423	209	416	2.38	1.18	2.35	2.03	0.008
1432478_a_at	Rnf19b	ring finger protein 19B	75234	202	210	284	404	1.04	1.40	2.00	0.74	0.007
1426063_a_at	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	14579	60	117	124	385	1.94	2.05	6.37	0.95	0.02
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	1.70	0.002
1432026_a_at	Herc5	hect domain and RLD 5	67138	108	226	120	345	2.10	1.12	3.20	1.88	0.003
1450484_a_at	Cmpk2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	22169	88	165	114	342	1.88	1.30	3.90	1.45	0.04
1436778_at	Cybb	cytochrome b-245, beta polypeptide	13058	115	246	131	341	2.14	1.14	2.97	1.88	0.004
1453757_at	Herc5	hect domain and RLD 5	67138	99	200	129	330	2.01	1.29	3.32	1.56	0.002
1451821_a_at	Sp100	nuclear antigen Sp100	20684	66	186	81	307	2.83	1.23	4.66	2.29	0.001
1448775_at	Ifi203	interferon activated gene 203	15950	67	179	121	291	2.67	1.81	4.34	1.48	0.009
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	1.48	0.002
1427164_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	65	163	124	271	2.51	1.91	4.16	1.31	0.003
1437932_a_at	Cldn1	claudin 1	12737	41	42	100	269	1.03	2.43	6.56	0.42	0.03

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1422562_at	Rrad	Ras-related associated with diabetes	56437	26	125	239	260	4.73	9.07	9.86	0.52	0.008

Table SIII.d1. Immune response (GO:0006955).

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	2.01	<0.0001
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2172	6795	3180	8778	3.13	1.46	4.04	2.14	<0.0001
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1874	6157	2927	8183	3.29	1.56	4.37	2.10	<0.0001
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	2.07	0.02
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	3.96	0.0008
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	5.69	<0.0001
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1254	3683	1665	5016	2.94	1.33	4.00	2.21	0.0002
1418825_at	Irgm1	immunity-related GTPase family M member 1	15944	2177	4176	2663	4619	1.92	1.22	2.12	1.57	0.03
1424067_at	Icam1	intercellular adhesion molecule 1	15894	401	1742	1455	4417	4.35	3.63	11.03	1.20	0.0008
1435906_x_at	Gbp2	guanylate binding protein 2	14469	291	2526	660	4228	8.68	2.27	14.53	3.82	0.0002
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1245	2520	2170	4150	2.02	1.74	3.33	1.16	0.0004
1449009_at	Tgtp	T-cell specific GTPase	21822	345	1748	602	3794	5.06	1.74	10.99	2.90	0.0006
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	866	1164	1914	3403	1.34	2.21	3.93	0.61	0.0009
1418392_a_at	Gbp3	guanylate binding protein 3	55932	268	1594	533	3340	5.95	1.99	12.46	2.99	0.0006
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	0.77	0.004
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1015	1759	1305	2341	1.73	1.29	2.31	1.35	0.003
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	3.66	0.0007
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	629	1582	876	2178	2.52	1.39	3.47	1.81	0.003
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	2.08	<0.0001
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	1.65	<0.0001
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.55	0.0003
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	0.87	0.0004
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	84	692	247	1463	8.25	2.95	17.45	2.80	0.0005
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	117	783	291	1419	6.71	2.49	12.17	2.69	<0.0001
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	865	384	1283	3.03	1.35	4.49	2.25	0.004
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	0.56	0.0009

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1416016_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	446	715	588	1074	1.61	1.32	2.41	1.22	0.0003
1453913_a_at	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	21355	424	673	582	1000	1.59	1.37	2.36	1.16	0.0008
1421358_at	H2-M3	histocompatibility 2, M region locus 3	14991	440	771	582	971	1.75	1.32	2.21	1.33	0.0001
1422782_s_at	Tlr3	toll-like receptor 3	142980	425	769	568	970	1.81	1.34	2.28	1.35	0.0008
1416942_at	Erap1	endoplasmic reticulum aminopeptidase 1	80898	443	693	423	897	1.57	0.95	2.03	1.64	<0.0001
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	1.64	0.0003
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.97	0.009
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	3.17	0.01
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	1.30	0.01
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	38	300	117	444	7.86	3.07	11.63	2.56	0.02
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	40	98	246	407	2.46	6.20	10.27	0.40	0.02
1432478_a_at	Rnf19b	ring finger protein 19B	75234	202	210	284	404	1.04	1.40	2.00	0.74	0.007
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	1.70	0.002
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	1.48	0.002

Table SIII.d2. Regulation of immune response (GO:0050776).

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	2.07	0.02
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	1.65	<0.0001
1421358_at	H2-M3	histocompatibility 2, M region locus 3	14991	440	771	582	971	1.75	1.32	2.21	1.33	0.0001
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	3.17	0.01

Table SIII.d3. Inflammatory response (GO:0006954)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1423954_at	C3	complement component 3	12266	500	4353	2107	7194	8.70	4.21	14.38	2.07	0.02
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	3.96	0.0008
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	5.69	<0.0001
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1015	1759	1305	2341	1.73	1.29	2.31	1.35	0.003
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	3.66	0.0007
1419132_at	Tlr2	toll-like receptor 2	24088	373	1305	790	1825	3.50	2.12	4.89	1.65	<0.0001
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.55	0.0003
1450826_a_at	Saa3	serum amyloid A 3	20210	95	867	101	1015	9.11	1.06	10.66	8.62	0.008
1422782_s_at	Tlr3	toll-like receptor 3	142980	425	769	568	970	1.81	1.34	2.28	1.35	0.0008
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.97	0.009
1417314_at	Cfb	complement factor B	14962	132	424	134	565	3.20	1.01	4.27	3.17	0.01
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	307	361	547	1.28	1.51	2.28	0.85	0.02
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	1.30	0.01
1417346_at	Pycard	PYD and CARD domain containing	66824	183	234	250	387	1.28	1.37	2.11	0.94	0.03

Table SIII.d4. Chemotaxis (GO:0006935)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	3.96	0.0008
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	5.69	<0.0001
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	866	1164	1914	3403	1.34	2.21	3.93	0.61	0.0009
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	3.66	0.0007
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	2.08	<0.0001
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.55	0.0003
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.97	0.009
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	1.30	0.01

Table SIII.d5. Regulation of developmental process (GO:0050793)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1420088_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	1.03	<0.0001
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3862	5953	5180	8053	1.54	1.34	2.09	1.15	0.02
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1245	2520	2170	4150	2.02	1.74	3.33	1.16	0.0004
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1009	1519	2010	2825	1.51	1.99	2.80	0.76	0.005
1418587_at	Traf3	Tnf receptor-associated factor 3	22031	1203	2026	2211	2504	1.68	1.84	2.08	0.92	0.0001
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	629	1582	876	2178	2.52	1.39	3.47	1.81	0.003
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	417	869	923	2071	2.08	2.21	4.96	0.94	0.0005
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	0.87	0.0004
1417130_s_at	Angptl4	angiopoietin-like 4	57875	404	1039	935	1402	2.57	2.32	3.47	1.11	0.02
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1074	780	1271	4.00	2.91	4.73	1.38	<0.0001
1415899_at	Junb	Jun-B oncogene	16477	340	743	680	1038	2.19	2.00	3.06	1.09	0.0001
1421358_at	H2-M3	histocompatibility 2, M region locus 3	14991	440	771	582	971	1.75	1.32	2.21	1.33	0.0001
1416942_at	Erap1	endoplasmic reticulum aminopeptidase 1	80898	443	693	423	897	1.57	0.95	2.03	1.64	<0.0001
1454974_at	Ntn1	netrin 1	18208	254	572	433	828	2.25	1.71	3.26	1.32	0.008
1421236_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	384	634	508	780	1.65	1.32	2.03	1.25	0.04
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	90	254	259	455	2.81	2.87	5.04	0.98	0.02
1457270_at	Gas7	growth arrest specific 7	14457	131	228	248	414	1.73	1.89	3.15	0.92	0.004
1417346_at	Pycard	PYD and CARD domain containing	66824	183	234	250	387	1.28	1.37	2.11	0.94	0.03
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	1.70	0.002
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	1.48	0.002

Table SIII.d6. Immune system development (GO:0002520)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1420088_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	6521	13866	13479	16284	2.13	2.07	2.50	1.03	<0.0001
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3862	5953	5180	8053	1.54	1.34	2.09	1.15	0.02
1448436_a_at	Irf1	interferon regulatory factor 1	16362	806	1295	1220	1777	1.61	1.51	2.20	1.06	<0.0001
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	0.87	0.0004
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	0.56	0.0009
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	1.64	0.0003
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	1.30	0.01
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	90	254	259	455	2.81	2.87	5.04	0.98	0.02
1460407_at	Spib	Spi-B transcription factor (Spi-1/PU.1 related)	272382	85	98	132	377	1.15	1.55	4.43	0.74	0.05
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	1.70	0.002
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	1.48	0.002

Table SIII.d7. Chemokine activity (GO:0008009)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	111	2695	680	6319	24.35	6.14	57.10	3.96	0.0008
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	13	1460	257	5280	114.57	20.15	414.30	5.69	<0.0001
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	866	1164	1914	3403	1.34	2.21	3.93	0.61	0.0009
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	0.77	0.004
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1015	1759	1305	2341	1.73	1.29	2.31	1.35	0.003
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	22	899	246	2303	41.62	11.39	106.61	3.66	0.0007
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1055	507	1856	4.26	2.05	7.49	2.08	<0.0001
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	32	201	364	1554	6.29	11.37	48.60	0.55	0.0003
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	71	186	191	816	2.63	2.71	11.55	0.97	0.009
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	156	245	189	507	1.57	1.21	3.25	1.30	0.01

Table SIII.d8. Cell adhesion (GO:0007155)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1841	7170	4474	10628	3.89	2.43	5.77	1.60	<0.0001
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3862	5953	5180	8053	1.54	1.34	2.09	1.15	0.02
1424067_at	Icam1	intercellular adhesion molecule	15894	401	1742	1455	4417	4.35	3.63	11.03	1.20	0.0008
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	621	1128	1461	2593	1.82	2.35	4.18	0.77	0.004
1437932_a_at	Cldn1	claudin 1	12737	41	42	100	269	1.03	2.43	6.56	0.42	0.03

Table SIII.d9. Transcription factor activity (GO:0003700)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	946	2819	1566	4274	2.98	1.66	4.52	1.80	0.0009
1419155_a_at	Sox4	SRY-box containing gene 4	20677	1019	1425	1967	2057	1.40	1.93	2.02	0.72	0.01
1440831_at	Bach1	BTB and CNC homology 1	12013	921	1210	1391	2025	1.31	1.51	2.20	0.87	0.001
1448436_a_at	Irf1	interferon regulatory factor 1	16362	806	1295	1220	1777	1.61	1.51	2.20	1.06	<0.0001
1427739_a_at	Trp53	transformation related protein 53	22059	660	1086	1246	1499	1.64	1.89	2.27	0.87	0.0004
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	865	384	1283	3.03	1.35	4.49	2.25	0.004
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	160	539	958	1274	3.37	5.99	7.96	0.56	0.0009
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	67	398	365	1156	5.96	5.47	17.31	1.09	0.003
1415899_at	Junb	Jun-B oncogene	16477	340	743	680	1038	2.19	2.00	3.06	1.09	0.0001
1450403_at	Stat2	signal transducer and activator of transcription 2	20847	383	746	494	1024	1.95	1.29	2.67	1.51	0.001
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	1.64	0.0003
1427091_at	Znfx1	zinc finger, NFX1-type containing 1	98999	367	593	463	740	1.61	1.26	2.01	1.28	0.001
1417346_at	Pycard	PYD and CARD domain containing	66824	183	234	250	387	1.28	1.37	2.11	0.94	0.03
1460407_at	Spib	Spi-B transcription factor (Spi-1/PU.1 related)	272382	85	98	132	377	1.15	1.55	4.43	0.74	0.05
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	21	211	142	275	10.20	6.90	13.34	1.48	0.002

Table SIII.d10. Antigen processing and presentation (GO:0019882)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	9605	4787	11557	4.05	2.02	4.87	2.01	<0.0001
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2172	6795	3180	8778	3.13	1.46	4.04	2.14	<0.0001
1421812_at	Tapbp	TAP binding protein	21356	2751	6688	3917	8239	2.43	1.42	2.99	1.71	<0.0001
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1874	6157	2927	8183	3.29	1.56	4.37	2.10	<0.0001
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1254	3683	1665	5016	2.94	1.33	4.00	2.21	0.0002
1417189_at	Psme2	proteasome (prosome, macropain) 28 subunit, beta	19188	2076	3611	2568	4384	1.74	1.24	2.11	1.41	0.0001
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	117	783	291	1419	6.71	2.49	12.17	2.69	<0.0001
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	179	601	367	847	3.35	2.05	4.73	1.64	0.0003
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	31	270	173	637	8.83	5.65	20.80	1.56	0.0003
1451544_at	Tapbpl	TAP binding protein-like	213233	218	325	287	496	1.49	1.32	2.28	1.13	0.002
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	129	259	152	350	2.01	1.18	2.72	1.70	0.002

Table SIII.d11. Cytokine binding (GO:0019955)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1448167_at	Ifngr1	interferon gamma receptor 1	15979	1036	1513	1841	2261	1.46	1.78	2.18	0.82	0.006
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	375	779	595	1031	2.08	1.59	2.75	1.31	0.007
1427165_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	204	383	301	550	1.87	1.47	2.69	1.27	0.0002
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	307	361	547	1.28	1.51	2.28	0.85	0.02
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	90	254	259	455	2.81	2.87	5.04	0.98	0.02

Table SIII.e. Down regulated genes.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean C	Mean T	Mean L	Mean TL	Fold change T/C	Fold change L/C	Fold change TL/C	Fold change T/L	p Value of ANOVA
1418697_at	Inmt	indolethylamine N-methyltransferase	21743	400	201	214	121	0.50	0.54	0.30	0.94	0.007
1415904_at	Lpl	lipoprotein lipase	16956	1025	534	622	352	0.52	0.61	0.34	0.86	0.02
1424605_at	Pcsk5	proprotein convertase subtilisin/kexin type 5	18552	1258	815	795	433	0.65	0.63	0.34	1.03	0.02
1438666_at	Ldlrad3	low density lipoprotein receptor class A domain containing 3	241576	2385	1187	1354	944	0.50	0.57	0.40	0.88	0.02
1426082_a_at	Slc16a4	solute carrier family 16 (monocarboxylic acid transporters), member 4	229699	1560	965	1069	720	0.62	0.68	0.46	0.90	0.01
1423753_at	Bambi	BMP and activin membrane-bound inhibitor, homolog (Xenopus laevis)	68010	682	578	556	322	0.85	0.82	0.47	1.04	0.001
1432591_at	Pappa	pregnancy-associated plasma protein A	18491	4354	3081	3053	2104	0.71	0.70	0.48	1.01	0.02
1434436_at	Morc4	microrchidia 4	75746	276	173	199	137	0.63	0.72	0.50	0.87	0.02

Table SIV. Determination of gene induction overlap between SMCs and aortic endothelial cells (Venn diagram Fig. SV). Endothelial cells and SMCs were cultured as described in Methods and both cell types were stimulated with a combination of TNF/α-LTβR as described in Fig.1 for 24 h. (**a**) Gene induction only in endothelial cells (EC); (**b**) Gene induction only in aorta SMCs; (**c**) Gene induction in endothelial cells (EC, 24h) and in aorta SMCs.

Table SIV.a. Gene induction only in endothelial cells (EC)

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change EC TL/C
1420940_x_at	Rgs5	regulator of G-protein signaling 5	19737	4787	4946	392	2594	6.61
1420941_at	Rgs5	regulator of G-protein signaling 5	19737	5630	5534	486	3093	6.36
1420942_s_at	Rgs5	regulator of G-protein signaling 5	19737	6910	6280	636	3412	5.36
1417466_at	Rgs5	regulator of G-protein signaling 5	19737	15777	16083	2160	10414	4.82
1418061_at	Ltbp2	latent transforming growth factor beta binding protein 2	16997	4630	7634	314	1490	4.75
1428034_a_at	Tnfrsf9	tumor necrosis factor receptor superfamily, member 9	21942	2	100	73	334	4.58
1440739_at	Vegfc	vascular endothelial growth factor C	22341	178	349	665	2715	4.08
1442350_at				1122	1096	144	528	3.67
1441750_x_at	4930447F24 Rik	RIKEN cDNA 4930447F24 gene	76873	198	144	203	713	3.51
1439766_x_at	Vegfc	vascular endothelial growth factor C	22341	218	434	938	3132	3.34
1418762_at	Cd55	CD55 antigen	13136	165	228	774	2553	3.30
1437173_at	S1pr3	sphingosine-1-phosphate receptor 3	13610	29	114	222	683	3.08
1415894_at	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	18606	646	1029	284	835	2.94
1424938_at	Steap1	six transmembrane epithelial antigen of the prostate 1	70358	139	150	513	1485	2.89
1429896_at	5830408B19 Rik	RIKEN cDNA 5830408B19 gene	74756	421	535	554	1502	2.71
1449368_at	Dcn	decorin	13179	1443	1560	3685	9896	2.69
1419100_at	Serpina3n	serine (or cysteine) peptidase inhibitor, clade A, member 3N	20716	316	490	465	1238	2.66
1425837_a_at	Ccrn4l	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	12457	427	664	317	824	2.60
1460242_at	Cd55	CD55 antigen	13136	184	255	1330	3435	2.58
1419684_at	Ccl8	chemokine (C-C motif) ligand 8	20307	190	217	856	2195	2.56

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change EC TL/C
1438055_at	Rarres1	retinoic acid receptor responder (tazarotene induced) 1	109222	2071	3552	830	2084	2.51
1421916_at	Pdgfra	platelet derived growth factor receptor, alpha polypeptide	18595	422	736	633	1562	2.47
1448421_s_at	Aspn	asporin	66695	4014	2171	92	225	2.45
1424208_at	Ptger4	prostaglandin E receptor 4 (subtype EP4)	19219	289	422	124	300	2.42
1425829_a_at	Steap4	STEAP family member 4	117167	45	210	224	540	2.41
1441749_at	4930447F24 Rik	RIKEN cDNA 4930447F24 gene	76873	185	246	223	537	2.41
1450004_at	Tslp	thymic stromal lymphopoietin	53603	56	85	135	323	2.39
1443906_at	Cd55	CD55 antigen	13136	156	236	693	1588	2.29
1417389_at	Gpc1	glypican 1	14733	568	746	424	959	2.26
1440084_at				94	96	148	333	2.24
1455840_at	Rapgef5	Rap guanine nucleotide exchange factor (GEF) 5	217944	48	73	227	497	2.19
1416503_at	Lxn	latexin	17035	6125	11067	4389	9521	2.17
1427076_at	Mpeg1	macrophage expressed gene 1	17476	55	71	467	1003	2.15
1432391_at	Ccdc21	coiled-coil domain containing 21	70012	299	291	155	332	2.14
1438946_at	Pdgfra	platelet derived growth factor receptor, alpha polypeptide	18595	471	802	496	1046	2.11
1451532_s_at	Steap1	six transmembrane epithelial antigen of the prostate 1	70358	516	544	998	2100	2.10
1416299_at	Shcbp1	Shc SH2-domain binding protein 1	20419	300	306	98	206	2.09
1433909_at	Syt17	synaptotagmin XVII	110058	344	683	559	1168	2.09
1425357_a_at	Grem1	gremlin 1	23892	329	328	1198	2488	2.08
1455137_at	Rapgef5	Rap guanine nucleotide exchange factor (GEF) 5	217944	163	220	738	1514	2.05
1433617_s_at	B4galt5	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5	56336	379	749	873	1775	2.03
1421075_s_at	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	13123	53	215	320	644	2.01
1424808_at	Lama4	laminin, alpha 4	16775	66	62	168	336	2.00
1438870_at	Fbn1	fibrillin 1	14118	1132	1122	452	905	2.00

Table SIV.b. Gene induction only in aorta SMCs.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1447927_at	Mpa2l	macrophage activation 2 like	100702	10	802	48	64	77.61
1418930_at	Cxcl10	chemokine (C-X-C motif) ligand 10	15945	31	1556	136	212	49.92
1450696_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	30	641	95	152	21.54
1429947_a_at	Zbp1	Z-DNA binding protein 1	58203	15	290	78	305	19.35
1453196_a_at	Oasl2	2'-5' oligoadenylate synthetase-like 2	23962	82	1466	733	1012	17.83
1438027_at				14	200	40	48	14.75
1419209_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	105	1533	926	1337	14.58
1418133_at	Bcl3	B-cell leukemia/lymphoma 3	12051	20	276	314	332	13.70
1436002_at	Scube3	signal peptide, CUB domain, EGF-like 3	268935	76	1043	46	118	13.70
1437578_at	Clca2	chloride channel calcium activated 2	80797	49	620	40	154	12.74
1418240_at	Gbp2	guanylate binding protein 2	14469	293	3718	769	1495	12.67
1418392_a_at	Gbp3	guanylate binding protein 3	55932	268	3335	664	1074	12.43
1451426_at	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	80861	37	448	161	244	11.99
1449277_at	Ccl19	chemokine (C-C motif) ligand 19	24047	69	820	19	20	11.88
1453939_x_at	677168	predicted gene, 677168	677168	29	335	112	189	11.52
1451655_at	Slfn8	schlafen 8	276950	20	224	294	385	11.42
1449009_at	Tgtp	T-cell specific GTPase	21822	347	3788	1306	1887	10.90
1424923_at	Serpina3g	serine (or cysteine) peptidase inhibitor, clade A, member 3G	20715	39	409	95	530	10.55
1423555_a_at	Ifi44	interferon-induced protein 44	99899	285	2917	785	1139	10.23
1451261_s_at	Stap2	signal transducing adaptor family member 2	106766	32	304	34	50	9.62
1451777_at	Ddx60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	234311	29	273	185	271	9.32
1451314_a_at	Vcam1	vascular cell adhesion molecule 1	22329	564	5068	7891	13083	8.99
1453304_s_at	Ly6e	lymphocyte antigen 6 complex, locus E	17069	564	4699	4387	7184	8.34
1431008_at	0610037M15 Rik	RIKEN cDNA 0610037M15 gene	68395	75	629	109	179	8.33
1418580_at	Rtp4	receptor transporter protein 4	67775	728	5381	2386	2855	7.39
1415989_at	Vcam1	vascular cell adhesion molecule 1	22329	843	6167	8182	12860	7.32
1450783_at	Ifit1	interferon-induced protein with tetratricopeptide repeats 1	15957	539	3918	1744	2262	7.27
1442019_at				30	215	32	95	7.18

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1448632_at	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	19171	337	2287	584	1339	6.80
1417851_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	49	325	56	54	6.64
1419042_at	Iigp1	interferon inducible GTPase 1	60440	262	1677	1083	1104	6.40
1426906_at	Ifi205	interferon activated gene 205	226695	118	752	1534	1802	6.35
1451564_at	Parp14	poly (ADP-ribose) polymerase family, member 14	547253	163	1016	494	734	6.23
1450424_a_at	Il18bp	interleukin 18 binding protein	16068	57	354	75	226	6.18
1438676_at	Mpa2l	macrophage activation 2 like	100702	62	382	101	181	6.12
1460259_s_at	Clca2	chloride channel calcium activated 2	80797	564	3392	3458	3840	6.01
1452231_x_at	Ifi205	interferon activated gene 205	226695	182	1094	2198	2631	6.00
1448162_at	Vcam1	vascular cell adhesion molecule 1	22329	1842	10795	12399	14457	5.86
1438855_x_at	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	21928	140	804	879	1622	5.75
1431591_s_at	677168	predicted gene, 677168	677168	551	3152	990	1261	5.72
1428942_at	Mt2	metallothionein 2	17750	1718	9791	4995	9585	5.70
1419043_a_at	Iigp1	interferon inducible GTPase 1	60440	486	2627	1800	1796	5.40
1449204_at	Gjb5	gap junction protein, beta 5	14622	50	265	60	145	5.34
1424921_at	Brd4	bromodomain containing 4	57261	760	3985	1972	3226	5.25
1416295_a_at	Il2rg	interleukin 2 receptor, gamma chain	16186	89	459	87	78	5.17
1419132_at	Tlr2	toll-like receptor 2	24088	376	1825	303	521	4.85
1417856_at	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	19698	178	852	235	364	4.79
1451821_a_at	Sp100	nuclear antigen Sp100	20684	64	308	174	193	4.79
1449591_at	Casp4	caspase 4, apoptosis-related cysteine peptidase	12363	269	1274	1457	1715	4.73
1434380_at	Gbp6	guanylate binding protein 6	229900	266	1233	541	615	4.64
1439831_at				82	373	232	293	4.53
1417244_a_at	Irf7	interferon regulatory factor 7	54123	286	1285	597	866	4.49
1450034_at	Stat1	signal transducer and activator of transcription 1	20846	951	4267	1386	1912	4.49
1451537_at	Chi3l1	chitinase 3-like 1	12654	61	273	72	70	4.48
1449025_at	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	15959	1361	6062	3492	3770	4.45
1457644_s_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	294	1307	710	1200	4.45
1448775_at	Ifi203	interferon activated gene 203	15950	66	292	447	627	4.45

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1417292_at	Ifi47	interferon gamma inducible protein 47	15953	875	3889	2008	2654	4.44
1424518_at	Apol9a	apolipoprotein L 9a	223672	128	567	480	392	4.42
1451784_x_at	H2-D1	histocompatibility 2, D region locus 1	14964	1875	8249	2863	5451	4.40
1417793_at	Iigp2	interferon inducible GTPase 2	54396	427	1867	898	1110	4.37
1452348_s_at	Ifi205	interferon activated gene 205	226695	354	1547	2150	2776	4.37
1417314_at	Cfb	complement factor B	14962	131	569	150	279	4.34
1450033_a_at	Stat1	signal transducer and activator of transcription 1	20846	592	2543	1038	1435	4.30
1452349_x_at	Ifi205	interferon activated gene 205	226695	655	2801	3333	4573	4.28
1427164_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	64	271	323	556	4.27
1415803_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	626	2591	1585	1694	4.14
1426970_a_at	Ube1l	ubiquitin-activating enzyme E1-like	74153	78	320	240	259	4.11
1425545_x_at	H2-L	histocompatibility 2, D region	14980	2173	8874	3094	5558	4.08
1449556_at	H2-T23	histocompatibility 2, T region locus 23	15040	1257	5014	3870	6355	3.99
1451860_a_at	Trim30	tripartite motif-containing 30	20128	275	1100	671	761	3.99
1423091_a_at	Gpm6b	glycoprotein m6b	14758	258	1031	998	1651	3.99
1450484_a_at	Cmpk2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	22169	86	343	127	109	3.99
1434015_at	Slc2a6	solute carrier family 2 (facilitated glucose transporter), member 6	227659	62	249	44	40	3.99
1418191_at	Usp18	ubiquitin specific peptidase 18	24110	461	1799	917	1034	3.90
1417853_at	Clca1	chloride channel calcium activated 1	12722	140	545	612	667	3.89
1453228_at	Stx11	syntaxin 11	74732	364	1411	651	1259	3.87
1457780_at	Stx11	syntaxin 11	74732	246	946	446	785	3.85
1451006_at	Xdh	xanthine dehydrogenase	22436	75	289	1659	2011	3.85
1453238_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	319202	324	1233	6715	4261	3.81
1415804_at	Cx3cl1	chemokine (C-X3-C motif) ligand 1	20312	214	810	465	534	3.78
1429159_at	Itih5	inter-alpha (globulin) inhibitor H5	209378	76	286	1690	1301	3.75
1420915_at	Stat1	signal transducer and activator of transcription 1	20846	476	1777	707	803	3.73
1454783_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	150	538	617	1006	3.60
1425156_at	Gbp6	guanylate binding protein 6	229900	57	202	124	181	3.54
1435396_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	143	504	256	483	3.51
1439965_at				136	476	238	323	3.50

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1436058_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	137	477	264	198	3.49
1422573_at	Ampd3	adenosine monophosphate deaminase 3	11717	300	1039	759	1104	3.47
1426276_at	Ifih1	interferon induced with helicase C domain 1	71586	633	2177	1057	1115	3.44
1453757_at	Herc5	hect domain and RLD 5	67138	98	332	130	212	3.39
1448550_at	Lbp	lipopolysaccharide binding protein	16803	140	471	1113	1761	3.36
1422557_s_at	Mt1	metallothionein 1	17748	2026	6741	6591	10642	3.33
1436562_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	1248	4149	1754	2811	3.32
1443698_at	Xaf1	XIAP associated factor 1	327959	801	2662	1189	1529	3.32
1417961_a_at	Trim30	tripartite motif-containing 30	20128	511	1693	1088	1125	3.31
1425603_at	Tmem176a	transmembrane protein 176A	66058	986	3267	704	1139	3.31
1448859_at	Cxcl13	chemokine (C-X-C motif) ligand 13	55985	154	511	213	180	3.31
1417141_at	Igtp	interferon gamma induced GTPase	16145	349	1148	612	863	3.29
1454974_at	Ntn1	netrin 1	18208	254	833	1442	930	3.28
1456890_at	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	230073	300	982	441	562	3.27
1432026_a_at	Herc5	hect domain and RLD 5	67138	106	346	161	191	3.27
1438037_at	Herc5	hect domain and RLD 5	67138	264	861	339	457	3.26
1438868_at	Phf11	PHD finger protein 11	219131	906	2950	1927	1979	3.25
1420499_at	Gch1	GTP cyclohydrolase 1	14528	174	567	175	279	3.25
1457270_at	Gas7	growth arrest specific 7	14457	130	417	111	309	3.21
1442819_at	Rhbdl2	rhomboid, veinlet-like 2 (Drosophila)	230726	158	505	108	216	3.20
1416897_at	Parp9	poly (ADP-ribose) polymerase family, member 9	80285	625	1985	1043	1264	3.18
1449370_at	Sox4	SRY-box containing gene 4	20677	274	869	579	511	3.18
1439068_at	Erap1	endoplasmic reticulum aminopeptidase 1	80898	177	562	164	257	3.18
1423909_at	Tmem176a	transmembrane protein 176A	66058	1157	3591	976	1629	3.10
1415899_at	Junb	Jun-B oncogene	16477	342	1042	415	690	3.04
1436778_at	Cybb	cytochrome b-245, beta polypeptide	13058	113	342	80	126	3.03
1441811_x_at	Tmem176a	transmembrane protein 176A	66058	673	2020	433	834	3.00
1455500_at	Rnf213	ring finger protein 213	629974	1017	3029	1743	2477	2.98
1417172_at	Ube2l6	ubiquitin-conjugating enzyme E2L 6	56791	128	380	249	295	2.97
1456494_a_at	AI451617	expressed sequence AI451617	209387	245	725	518	614	2.96
1438498_at	Zmynd15	zinc finger, MYND-type containing 15	574428	62	182	132	167	2.95
1429021_at	Epha4	Eph receptor A4	13838	159	468	92	124	2.94

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1429310_at	Flrt3	fibronectin leucine rich transmembrane protein 3	71436	117	344	137	293	2.93
1435208_at	Dtx3l	deltex 3-like (Drosophila)	209200	582	1700	1081	1375	2.92
1436838_x_at	Cotl1	coactosin-like 1 (Dictyostelium)	72042	127	372	172	301	2.92
1460125_at				55	160	69	96	2.89
1419156_at	Sox4	SRY-box containing gene 4	20677	471	1350	1060	1013	2.87
1443858_at	EG667823	predicted gene, EG667823	667823	586	1672	758	897	2.85
1439825_at	Dtx3l	deltex 3-like (Drosophila)	209200	179	510	281	326	2.84
1425719_a_at	Nmi	N-myc (and STAT) interactor	64685	283	793	308	339	2.80
1417852_x_at	Clca1	chloride channel calcium activated 1	12722	396	1104	3346	3135	2.79
1417300_at	Smpdl3b	sphingomyelin phosphodiesterase, acid-like 3B	100340	146	405	259	326	2.77
1425519_a_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	16149	127	352	125	111	2.77
1448380_at	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	19039	2301	6330	5417	6679	2.75
1440169_x_at	Ifnar2	interferon (alpha and beta) receptor 2	15976	378	1036	968	1264	2.74
1449484_at	Stc2	stanniocalcin 2	20856	123	336	615	874	2.74
1427165_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	203	554	655	918	2.73
1421009_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	73	199	114	137	2.71
1435137_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	319202	349	942	4217	2987	2.70
1434046_at	AA467197	expressed sequence AA467197	433470	65	176	234	434	2.70
1426774_at	Parp12	poly (ADP-ribose) polymerase family, member 12	243771	804	2159	906	1020	2.69
1436172_at	Samd9l	sterile alpha motif domain containing 9-like	209086	371	989	537	550	2.67
1450403_at	Stat2	signal transducer and activator of transcription 2	20847	386	1028	715	798	2.66
1433930_at	Hpse	heparanase	15442	172	456	2843	5557	2.66
1434322_at	Micall2	MICAL-like 2	231830	160	425	184	300	2.66
1420088_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	6533	17222	8834	15077	2.64
1424148_a_at	Stap2	signal transducing adaptor family member 2	106766	131	345	102	153	2.64

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1429184_at	100042856	predicted gene, 100042856	100042856	1574	4145	5238	5681	2.63
1421911_at	Stat2	signal transducer and activator of transcription 2	20847	250	658	401	450	2.63
1424857_a_at	Trim34	tripartite motif-containing 34	94094	432	1122	628	623	2.60
1451775_s_at	Il13ra1	interleukin 13 receptor, alpha 1	16164	207	537	537	697	2.60
1452178_at	Plec1	plectin 1	18810	230	593	431	466	2.58
1435488_at	1110019K23 Rik	RIKEN cDNA 1110019K23 gene	665563	454	1161	520	681	2.56
1418666_at	Ptx3	pentraxin related gene	19288	1521	3861	161	198	2.54
1417470_at	Apobec3	apolipoprotein B editing complex 3	80287	174	431	284	420	2.48
1454592_at	9430012M22 Rik	RIKEN cDNA 9430012M22 gene	77244	65	161	88	205	2.48
1426278_at	Ifi27	interferon, alpha-inducible protein 27	76933	332	817	997	854	2.46
1429570_at	Mlkl	mixed lineage kinase domain-like	74568	356	877	570	802	2.46
1430752_at	C330006D17 Rik	RIKEN cDNA C330006D17 gene	77616	113	278	158	307	2.46
1450672_a_at	Trex1	three prime repair exonuclease 1	22040	289	707	445	630	2.45
1455393_at	Cp	ceruloplasmin	12870	206	505	6984	8250	2.45
1446190_at	Dclk1	doublecortin-like kinase 1	13175	168	409	279	535	2.44
1419157_at	Sox4	SRY-box containing gene 4	20677	584	1422	1151	1253	2.43
1424777_at	Wdr21	WD repeat domain 21	73828	124	301	515	423	2.42
1416016_at	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	16912	449	1077	471	587	2.40
1448940_at	Trim21	tripartite motif-containing 21	20821	460	1100	783	872	2.39
1429692_s_at	Gch1	GTP cyclohydrolase 1	14528	176	420	174	246	2.38
1415972_at	Marcks	myristoylated alanine rich protein kinase C substrate	17118	1043	2470	4371	5106	2.37
1429128_x_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	213	504	244	465	2.37
1460603_at	Samd9l	sterile alpha motif domain containing 9-like	209086	1751	4144	2334	2466	2.37
1439475_at	Zfp429	zinc finger protein 429	72807	137	324	189	243	2.37
1453321_at	Fndc1	fibronectin type III domain containing 1	68655	582	1365	55	15	2.35
1456028_x_at	Marcks	myristoylated alanine rich protein kinase C substrate	17118	1041	2449	3602	3432	2.35

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1426501_a_at	Tifa	TRAF-interacting protein with forkhead-associated domain	211550	155	363	628	876	2.35
1453913_a_at	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	21355	427	1003	446	578	2.35
1429727_at	Slc16a9	solute carrier family 16 (monocarboxylic acid transporters), member 9	66859	125	293	86	243	2.34
1428384_at	D4Bwg0951e	DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed	52829	2224	5135	2178	3534	2.31
1460197_a_at	Steap4	STEAP family member 4	117167	263	608	1310	1794	2.31
1438561_x_at	Tmem180	transmembrane protein 180	75146	119	275	103	150	2.31
1418099_at	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	21938	240	551	1239	1671	2.30
1451544_at	Tapbpl	TAP binding protein-like	213233	217	500	209	254	2.30
1441855_x_at	Cxcl1	chemokine (C-X-C motif) ligand 1	14825	1018	2340	1792	1890	2.30
1455292_x_at				205	470	356	460	2.30
1459552_at				109	252	129	166	2.30
1455724_at	Prrg1	proline rich Gla (G-carboxyglutamic acid) 1	546336	351	802	1207	1540	2.29
1425942_a_at	Gpm6b	glycoprotein m6b	14758	415	946	949	1458	2.28
1417719_at	Sap30	sin3 associated polypeptide	60406	228	516	985	969	2.27
1422782_s_at	Tlr3	toll-like receptor 3	142980	429	973	331	397	2.27
1419358_at	Sorcs2	sortilin-related VPS10 domain containing receptor 2	81840	100	228	56	93	2.27
1425749_at	Stxbp6	syntaxin binding protein 6 (amisyn)	217517	144	325	170	324	2.27
1426511_at	Susd2	sushi domain containing 2	71733	231	524	92	152	2.27
1438716_at	AI451617	expressed sequence AI451617	209387	173	392	311	346	2.27
1427739_a_at	Trp53	transformation related protein 53	22059	665	1500	823	1130	2.26
1427689_a_at	Tnip1	TNFAIP3 interacting protein 1	57783	1493	3344	1569	2966	2.24
1422742_at	Hivep1	human immunodeficiency virus type I enhancer binding protein 1	110521	403	892	698	867	2.22
1437226_x_at	Marcksl1	MARCKS-like 1	17357	723	1602	1744	1827	2.22
1446894_at				418	928	131	202	2.22
1421008_at	Rsad2	radical S-adenosyl methionine domain containing 2	58185	119	264	197	231	2.22
1421217_a_at	Lgals9	lectin, galactose binding, soluble 9	16859	2062	4546	3647	3483	2.20
1421358_at	H2-M3	histocompatibility 2, M region locus 3	14991	443	974	743	921	2.20
1426452_a_at	Rab30	RAB30, member RAS oncogene family	75985	143	316	110	137	2.20

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1460444_at	Arrb1	arrestin, beta 1	109689	170	375	625	664	2.20
1440831_at	Bach1	BTB and CNC homology 1	12013	925	2028	1301	1817	2.19
1448436_a_at	Irf1	interferon regulatory factor 1	16362	811	1778	1213	1806	2.19
1455966_s_at	Nudt21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	68219	131	286	163	157	2.19
1452483_a_at	Cd44	CD44 antigen	12505	846	1845	782	1411	2.18
1436183_at	9830115L13 Rik	RIKEN cDNA 9830115L13 gene	319257	973	2121	1736	2249	2.18
1417978_at	Eif4e3	eukaryotic translation initiation factor 4E member 3	66892	241	525	379	363	2.17
1427932_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	319202	978	2118	6416	4622	2.17
1448167_at	Ifngr1	interferon gamma receptor 1	15979	1040	2258	1950	3226	2.17
1421928_at	Epha4	Eph receptor A4	13838	210	456	175	221	2.17
1456586_x_at	Mvp	major vault protein	78388	736	1582	696	1295	2.15
1437303_at	Il6st	interleukin 6 signal transducer	16195	494	1058	454	532	2.14
1417346_at	Pycard	PYD and CARD domain containing	66824	182	390	163	234	2.14
1418403_at	Adam19	a disintegrin and metallopeptidase domain 19 (meltrin beta)	11492	114	245	506	478	2.14
1436779_at	Cybb	cytochrome b-245, beta polypeptide	13058	118	253	92	122	2.14
1450387_s_at	Ak3l1	adenylate kinase 3-like 1	11639	765	1632	1379	1343	2.13
1418825_at	Irgm1	immunity-related GTPase family M member 1	15944	2176	4609	2973	2709	2.12
1449875_s_at	H2-T10	histocompatibility 2, T region locus 10	15024	1736	3686	1988	2805	2.12
1452840_at	1500009L16 Rik	RIKEN cDNA 1500009L16 gene	69784	303	640	556	519	2.12
1417189_at	Psme2	proteasome (prosome, macropain) 28 subunit, beta	19188	2077	4381	2302	2919	2.11
1437087_at	2210408K08 Rik	RIKEN cDNA 2210408K08 gene	108743	428	904	369	430	2.11
1440645_at	BB114814	expressed sequence BB114814	100043173	104	220	42	51	2.11
1418004_a_at	Tmem176b	transmembrane protein 176B	65963	3117	6546	2241	3602	2.10
1448914_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	3859	8122	3874	5634	2.10
1455581_x_at	Samd9l	sterile alpha motif domain containing 9-like	209086	895	1876	1027	1220	2.10
1445897_s_at	Ifi35	interferon-induced protein 35	70110	2914	6114	3238	3270	2.10

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C
1421830_at	Ak3l1	adenylate kinase 3-like 1	11639	658	1378	1140	1155	2.09
1444242_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	727	1520	1104	1791	2.09
1451474_a_at	Parp8	poly (ADP-ribose) polymerase family, member 8	52552	105	219	214	264	2.09
1430311_at	Marcks	myristoylated alanine rich protein kinase C substrate	17118	128	266	305	376	2.09
1453181_x_at	Plscr1	phospholipid scramblase 1	22038	404	842	1746	1758	2.08
1422754_at	Tmod1	tropomodulin 1	21916	172	358	226	222	2.08
1425394_at	BC023105	cDNA sequence BC023105	667597	105	219	183	173	2.08
1417429_at	Fmo1	flavin containing monooxygenase 1	14261	329	677	446	334	2.06
1417822_at	D17H6S56E-5	DNA segment, Chr 17, human D6S56E 5	110956	1034	2126	502	837	2.06
1420913_at	Slco2a1	solute carrier organic anion transporter family, member 2a1	24059	1488	3067	3327	5254	2.06
1422528_a_at	Zfp36l1	zinc finger protein 36, C3H type-like 1	12192	576	1185	934	1360	2.06
1435665_at	AI451617	expressed sequence AI451617	209387	855	1761	1387	1483	2.06
1428660_s_at	Tor3a	torsin family 3, member A	30935	511	1043	937	1120	2.04
1431095_a_at	Herc5	hect domain and RLD 5	67138	377	767	425	479	2.04
1421236_at	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	192656	386	784	440	542	2.03
1416942_at	Erap1	endoplasmic reticulum aminopeptidase 1	80898	447	901	323	540	2.02
1419155_a_at	Sox4	SRY-box containing gene 4	20677	1022	2061	1775	1738	2.02
1432478_a_at	Rnf19b	ring finger protein 19B	75234	201	407	187	362	2.02
1416695_at	Tspo	translocator protein	12257	4453	8930	4691	6530	2.01
1423557_at	Ifngr2	interferon gamma receptor 2	15980	1095	2202	1133	1913	2.01
1427091_at	Znfx1	zinc finger, NFX1-type containing 1	98999	370	744	503	651	2.01
1429104_at	Limd2	LIM domain containing 2	67803	338	680	437	648	2.01

Table SIV.c. Gene induction in endothelial cells (EC, 24h) and in aorta SMCs.

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C	Fold change EC TL/C
1418126_at	Ccl5	chemokine (C-C motif) ligand 5	20304	12	5264	26	1056	422.79	40.32
1421228_at	Ccl7	chemokine (C-C motif) ligand 7	20306	21	2306	436	3837	109.43	8.79
1420380_at	Ccl2	chemokine (C-C motif) ligand 2	20296	109	6337	1152	11645	58.06	10.11
1436003_at	Vcam1	vascular cell adhesion molecule 1	22329	101	2901	3247	8973	28.76	2.76
1427746_x_at	H2-K1	histocompatibility 2, K1, K region	14972	488	9710	666	4062	19.92	6.09
1458299_s_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	65	1162	150	1159	17.79	7.74
1460469_at	Tnfrsf9	tumor necrosis factor receptor superfamily, member 9	21942	47	704	446	1750	14.83	3.92
1448881_at	Hp	haptoglobin	15439	83	1216	643	1373	14.62	2.14
1435906_x_at	Gbp2	guanylate binding protein 2	14469	292	4226	601	1313	14.49	2.19
1423954_at	C3	complement component 3	12266	501	7252	675	8536	14.47	12.65
1449195_s_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	97	1209	511	1600	12.43	3.13
1422962_a_at	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	16913	115	1421	272	789	12.37	2.91
1424067_at	Icam1	intercellular adhesion molecule 1	15894	403	4409	462	1456	10.95	3.15
1450826_a_at	Saa3	serum amyloid A 3	20210	94	1018	212	2037	10.87	9.63
1427747_a_at	Lcn2	lipocalin 2	16819	334	3531	1101	2798	10.58	2.54
1422562_at	Rrad	Ras-related associated with diabetes	56437	26	261	191	454	10.13	2.39
1424948_x_at	H2-K1	histocompatibility 2, K1, K region	14972	420	3626	478	1536	8.62	3.22
1431843_a_at	Nfkbie	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	18037	51	433	94	439	8.46	4.68
1425902_a_at	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	18034	159	1277	325	1175	8.05	3.61
1419463_at	Clca2	chloride channel calcium activated 2	80797	456	3650	310	1142	8.00	3.69
1424270_at	Dclk1	doublecortin-like kinase 1	13175	133	1061	240	1090	7.97	4.55
1418718_at	Cxcl16	chemokine (C-X-C motif) ligand 16	66102	248	1857	853	2486	7.49	2.92
1426324_at	H2-K1	histocompatibility 2, K1, K region	14972	95	699	230	516	7.35	2.25
1435940_at	Dclk1	doublecortin-like kinase 1	13175	153	1077	386	1177	7.06	3.05
1437932_a_at	Cldn1	claudin 1	12737	40	269	72	316	6.73	4.42
1448306_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	899	5959	1382	4255	6.63	3.08
1426063_a_at	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	14579	59	387	212	581	6.57	2.75

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C	Fold change EC TL/C
1449731_s_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	1468	8389	2128	5325	5.72	2.50
1451289_at	Dclk1	doublecortin-like kinase 1	13175	432	2457	638	2620	5.69	4.11
1424271_at	Dclk1	doublecortin-like kinase 1	13175	845	4592	1238	4498	5.44	3.63
1436659_at	Dclk1	doublecortin-like kinase 1	13175	1350	6823	2166	7236	5.05	3.34
1425336_x_at	H2-K1	histocompatibility 2, K1, K region	14972	2371	11783	3373	8493	4.97	2.52
1421392_a_at	Birc3	baculoviral IAP repeat-containing 3	11796	420	2072	650	1979	4.93	3.05
1433699_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	493	2313	1069	2518	4.69	2.36
1460407_at	Spib	Spi-B transcription factor (Spi-1/PU.1 related)	272382	83	377	93	607	4.52	6.53
1448898_at	Ccl9	chemokine (C-C motif) ligand 9	20308	455	2050	1943	5487	4.50	2.82
1451683_x_at	H2-K1	histocompatibility 2, K1, K region	14972	947	4253	1171	2674	4.49	2.28
1451931_x_at	H2-L	histocompatibility 2, D region	14980	1626	7035	2345	4802	4.33	2.05
1438157_s_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	2805	11814	3829	8679	4.21	2.27
1450829_at	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	21929	138	561	323	659	4.07	2.04
1427760_s_at	Prl2c2	prolactin family 2, subfamily c, member 2	18811	122	491	1990	6859	4.01	3.45
1450165_at	Slfn2	schlafen 2	20556	114	456	690	1553	4.00	2.25
1417936_at	Ccl9	chemokine (C-C motif) ligand 9	20308	870	3400	3306	8829	3.91	2.67
1450863_a_at	Dclk1	doublecortin-like kinase 1	13175	424	1569	754	2001	3.70	2.65
1450534_x_at	H2-K1	histocompatibility 2, K1, K region	14972	223	812	329	722	3.64	2.20
1438658_a_at	S1pr3	sphingosine-1-phosphate receptor 3	13610	136	474	880	2705	3.48	3.07
1417130_s_at	Angptl4	angiopoietin-like 4	57875	407	1406	1965	4326	3.46	2.20
1449133_at	Sprr1a	small proline-rich protein 1A	20753	227	784	2420	6463	3.45	2.67
1450378_at	Tapbp	TAP binding protein	21356	808	2624	711	1451	3.25	2.04
1417788_at	Sncg	synuclein, gamma	20618	100	308	476	1061	3.08	2.23
1421074_at	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	13123	84	256	353	837	3.05	2.37
1421812_at	Tapbp	TAP binding protein	21356	2747	8306	2582	5254	3.02	2.03
1423125_at	Dclk1	doublecortin-like kinase 1	13175	162	459	209	472	2.83	2.26
1418854_at	Birc2	baculoviral IAP repeat-containing 2	11797	1011	2824	1064	2948	2.79	2.77
1420089_at	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	18035	336	881	260	537	2.63	2.07

Affymetrix Probe set ID	Gene symbol	Gene name	Entrez Gene ID	Mean SMC C	Mean SMC TL	Mean EC C	Mean EC TL	Fold change SMC TL/C	Fold change EC TL/C
1437451_at	1110006O17 Rik	RIKEN cDNA 1110006O17 gene	68545	135	346	154	434	2.56	2.83
1425154_a_at	Csf1	colony stimulating factor 1 (macrophage)	12977	1057	2485	1217	2457	2.35	2.02
1417821_at	D17H6S56E-5	DNA segment, Chr 17, human D6S56E 5	110956	710	1502	247	549	2.12	2.22
1450014_at	Cldn1	claudin 1	12737	106	224	111	234	2.11	2.10
1438081_at	Mcc	mutated in colorectal cancers	328949	279	581	247	521	2.08	2.11
1418587_at	Traf3	Tnf receptor-associated factor 3	22031	1208	2500	717	1507	2.07	2.10
1419417_at	Vegfc	vascular endothelial growth factor C	22341	67	136	514	2234	2.04	4.35
1448136_at	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	18606	705	1439	422	1658	2.04	3.93
1434905_at	Ndufa4l2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2	407790	354	713	696	1512	2.02	2.17

Tabl. SV. Presumptive LTO genes in SMCs constitutively expressed or induced by TNF, α-LTβR, and TNF + α-LTβR

Gene Molecule	Function	References
LTβR	LTO	[3, 4], this study
CXCL12	LTO	[4, 5], this study
CXCL13	LTO, B cell homing	[4, 6], this study
CCL19	LTO, T cell homing	[4, 5], this study
ICAM-1	LTO, adhesion	[4], this study
VCAM-1	LTO, adhesion	[4], this study
CCL2	Monocyte homing	[7], this study
CCL5	Monocyte and T cell homing	[7], this study
CCL7	Monocyte homing	this study
CCL9	DC and monocyte homing	this study
CXCL1	Monocyte homing	[8], this study
CXCL10	T cell homing	[8], this study
CXCL16	Monocyte and T cell homing	[8], this study
CX3CL1	Adhesion	[7, 8], this study
CXCR7	CXCL12 binding	[9], this study

References

1. Grabner R, Lotzer K, Dopping S, Hildner M, Radke D, Beer M, Spanbroek R, Lippert B, Reardon CA, Getz GS, Fu YX, Hehlgans T, Mebius RE, van der Wall M, Kruspe D, Englert C, Lovas A, Hu D, Randolph GJ, Weih F, Habenicht AJ. Lymphotoxin beta receptor signaling promotes tertiary lymphoid organogenesis in the aorta adventitia of aged ApoE-/- mice. *J Exp Med.* 2009;206:233-248.
2. Guo F, Weih D, Meier E, Weih F. Constitutive alternative NF-kappaB signaling promotes marginal zone B-cell development but disrupts the marginal sinus and induces HEV-like structures in the spleen. *Blood.* 2007;110:2381-2389.
3. Futterer A, Mink K, Luz A, Kosco-Vilbois MH, Pfeffer K. The lymphotoxin beta receptor controls organogenesis and affinity maturation in peripheral lymphoid tissues. *Immunity.* 1998;9:59-70.
4. Mebius RE. Organogenesis of lymphoid tissues. *Nat Rev Immunol.* 2003;3:292-303.
5. Luther SA, Bidgol A, Hargreaves DC, Schmidt A, Xu Y, Paniyadi J, Matloubian M, Cyster JG. Differing activities of homeostatic chemokines CCL19, CCL21, and CXCL12 in lymphocyte and dendritic cell recruitment and lymphoid neogenesis. *J Immunol.* 2002;169:424-433.
6. Tumanov AV, Grivennikov SI, Shakhov AN, Rybtsov SA, Koroleva EP, Takeda J, Nedospasov SA, Kuprash DV. Dissecting the role of lymphotoxin in lymphoid organs by conditional targeting. *Immunol Rev.* 2003;195:106-116.
7. Schober A. Chemokines in vascular dysfunction and remodeling. *Arterioscler Thromb Vasc Biol.* 2008;28:1950-1959.
8. Zernecke A, Shagdarsuren E, Weber C. Chemokines in atherosclerosis: an update. *Arterioscler Thromb Vasc Biol.* 2008;28:1897-1908.

9. Sierro F, Biben C, Martinez-Munoz L, Mellado M, Ransohoff RM, Li M, Woehl B, Leung H, Groom J, Batten M, Harvey RP, Martinez AC, Mackay CR, Mackay F. Disrupted cardiac development but normal hematopoiesis in mice deficient in the second CXCL12/SDF-1 receptor, CXCR7. *Proc Natl Acad Sci U S A.* 2007;104:14759-14764.