**Table S6. Gene transcripts exclusively upregulated in macrophages stimulated with live *Borrelia burgdorferi* (Bb) with added IL-10 at 24 h post-stimulation**

| | | Fold change | |
|---|---|---|---|
| **Gene number** | **Annotation** | **Live Bb + IL-10** | **Description/function** |
| | | | **Cytokine** |
| NM_008117 | Gh | 4.07 | Growth hormone |
| NM_021443 | Ccl8 | 3.24 | Chemokine (C-C motif) ligand 8 |
| NM_010798 | Mif | 2.23 | Macrophage migration inhibitory factor |
| | | | **Enzyme** |
| NM_010283 | Ggta1 | 7.15 | Glycoprotein galactosyltransferase alpha 1, 3 |
| NM_021715 | Chst7 | 6.6 | Carbohydrate (N-acetylglucosamino) sulfotransferase 7 |
| AK002747 | Galnt14 | 5.97 | UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 |
| NM_170597 | Creg2 | 4.21 | Cellular repressor of E1A-stimulated genes 2 |
| NM_025972 | Asahl | 3.97 | N-acylsphingosine amidohydrolase (acid ceramidase)-like |
| NM_028810 | Rnd3 | 3.77 | Rho family GTPase 3 |
| AK029782 | Ust | 3.55 | Uronyl-2-sulfotransferase |
| NM_001007465 | Rffl | 3.27 | Ring finger and FYVE like domain containing protein |
| NM_030718 | Abo | 2.92 | ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase, transferase B, alpha 1-3-galactosyltransferase) |
| NM_175562 | Rab39 | 2.77 | RAB39, member RAS oncogene family |
| NM_172612 | Rnd1 | 2.72 | Rho family GTPase 1 |
| NM_133685 | Rab31 | 2.55 | RAB31, member RAS oncogene family |
| NM_019946 | Mgst1 | 2.54 | Microsomal glutathione S-transferase 1 |
| AK035758 | Car10 | 2.53 | Carbonic anhydrase 10 |
| CJ326049 | CJ326049 | 2.48 | Transcribed locus |
| NM_026713 | Mogat1 | 2.44 | Monoacylglycerol O-acyltransferase 1 |
| NM_007814 | Cyp2b19 | 2.42 | Cytochrome P450, family 2, subfamily b, polypeptide 19 |
| NM_009008 | Rac2 | 2.42 | RAS-related C3 botulinum substrate 2 |
| NM_010027 | Ddt | 2.37 | D-dopachrome tautomerase |
| NM_023121 | Gngt2 | 2.36 | Guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2 |
| NM_029466 | Arl5b | 2.36 | ADP-ribosylation factor-like 5B |
| | | | **G-protein coupled receptor** |
| NM_146924 | Olfr476 | 5.41 | Olfactory receptor 476 |
| NM_008039 | Fpr-rs2 | 5.05 | Formyl peptide receptor, related sequence 2 |
| NM_008286 | Hrh2 | 3.65 | Histamine receptor H 2 |
| NM_147038 | Olfr1416 | 3.61 | Olfactory receptor 1416 |
| NM_008965 | Ptger4 | 2.92 | Prostaglandin E receptor 4 (subtype EP4) |
| | | | **Growth factor** |
| NM_022024 | Gmfg | 2.31 | Glia maturation factor, gamma |
| | | | **Ion channel** |
| AK014626 | Kcnk16 | 4.6 | Potassium channel, subfamily K, member 16 |
| NM_007583 | Cacng2 | 3.63 | Calcium channel, voltage-dependent, gamma subunit 2 |
| NM_016691 | Clcn5 | 3.05 | Chloride channel 5 |

| | | | |
|---|---|---|---|
| NM_031169 | Kcnmb1 | 2.66 | Potassium large conductance calcium-activated channel, subfamily M, beta member 1 |
| | | | **Kinase** |
| NM_133232 | Pfkfb3 | 3.11 | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 |
| NM_138952 | Ripk2 | 2.91 | Receptor (TNFRSF)-interacting serine-threonine kinase 2 |
| NM_010747 | Lyn | 2.83 | Yamaguchi sarcoma viral (v-yes-1) oncogene homolog |
| NM_021606 | Nek6 | 2.39 | NIMA (never in mitosis gene a)-related expressed kinase 6 |
| NM_144549 | Trib1 | 2.33 | Tribbles homolog 1 (Drosophila) |
| NM_008828 | Pgk1 | 2.18 | Phosphoglycerate kinase 1 |
| | | | **Ligand-dependent nuclear receptor** |
| NM_013839 | Nr1h3 | 3.02 | Nuclear receptor subfamily 1, group H, member 3 |
| | | | **Peptidase** |
| NM_009170 | Shh | 3.94 | Sonic hedgehog |
| NM_008198 | Cfb | 3.35 | Complement factor B |
| NM_199019 | 4933407P14Rik | 3.19 | RIKEN cDNA 4933407P14 gene |
| NM_009984 | Ctsl | 2.67 | Cathepsin L |
| NM_007801 | Ctsh | 2.5 | Cathepsin H |
| | | | Phosphatase |
| NM_008984 | Ptprm | 3.9 | Protein tyrosine phosphatase, receptor type, M |
| NM_013642 | Dusp1 | 3.14 | Dual specificity phosphatase 1 |
| | | | **Transcription regulator** |
| AK007371 | Mbd1 | 4.08 | Methyl-CpG binding domain protein 1 |
| NM_144933 | Crsp6 | 3.1 | Mediator complex subunit 17 |
| XM_884335 | Ankrd57 | 2.98 | unknown |
| NM_008093 | Gata5 | 2.94 | GATA binding protein 5 |
| XM_001001171 | Trip11 | 2.79 | Thyroid hormone receptor interactor 11 |
| NM_011691 | Vav1 | 2.37 | Vav 1 oncogene |
| NM_010118 | Egr2 | 2.29 | Early growth response 2 |
| NM_011138 | Pou2f2 | 2.28 | POU domain, class 2, transcription factor 2 |
| AK033622 | Foxp1 | 2.26 | Forkhead box P1 |
| | | | **Transmembrane receptor** |
| NM_144559 | Fcgr3a | 4.75 | Fc receptor, IgG, low affinity IV |
| NM_010187 | Fcgr2b | 2.92 | Fc receptor, IgG, low affinity IIb |
| NM_007782 | Csf3r | 2.91 | Colony stimulating factor 3 receptor (granulocyte) |
| NM_007781 | Csf2rb2 | 2.76 | Colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage) |
| NM_025422 | Cd302 | 2.64 | CD302 antigen |
| NM_011682 | Utrn | 2.49 | Utrophin |
| | | | **Transporter** |
| NM_010288 | Gja1 | 4.3 | Gap junction protein, alpha 1 |
| NM_008120 | Gja4 | 4.18 | Gap junction protein, alpha 4 |
| NM_013851 | Abca8b | 3.45 | ATP-binding cassette, sub-family A (ABC1), member 8b |
| NM_009196 | Slc16a1 | 2.66 | Solute carrier family 16 (monocarboxylic acid transporters), member 1 |
| NM_009695 | Apoc2 | 2.66 | Apolipoprotein C-II |
| NM_011405 | Slc7a7 | 2.48 | Solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 |
| NM_145447 | BC011209 | 2.08 | Feline leukemia virus subgroup C cellular receptor family, member 2 |

| | | | **Other** |
|---|---|---|---|
| NAP039233-1 | NAP039233-1 | 2.35 | unknown |
| BC028285 | Aipl1 | 12.1 | Aryl hydrocarbon receptor-interacting protein-like 1 |
| AK013346 | 2810454L23Rik | 9.74 | RIKEN cDNA 2810454L23 gene |
| AK011567 | 2610027H17Rik | 9.67 | RIKEN cDNA 2610027H17 gene |
| AT_nC_5 | AT_nC_5 | 8.03 | unknown |
| NM_009566 | Zfp92 | 7.58 | Zinc finger protein 92 |
| XM_619639 | Tns1 | 7.58 | Tensin 1 |
| A_52_P541760 | A_52_P541760 | 6.98 | unknown |
| XM_001002573 | 4930438A08Rik | 6.68 | unknown |
| ENSMUST00000037174 | ENSMUST00000037174 | 6.52 | unknown |
| AK030336 | Chn2 | 6.5 | Chimerin (chimaerin) 2 |
| NM_021469 | Dysf | 6.28 | Dysferlin |
| NM_175188 | | 5.44 | Membrane-associated ring finger (C3HC4) 1 |
| AK033846 | AK033846 | 5.39 | Adult male epididymis cDNA, RIKEN full-length enriched library, clone:9230119B03 product:unclassifiable, full insert sequence |
| AK030167 | Brd8 | 5.24 | RIKEN cDNA 4933408B17 gene |
| XM_129603 | Tdrd5 | 5.03 | Tudor domain containing 5 |
| NM_153518 | Ccdc65 | 4.72 | Coiled-coil domain containing 65 |
| NM_010734/M18187 | Lst1 | 4.51 | Leukocyte specific transcript 1 |
| AK034923 | AK034923 | 4.5 | RIKEN cDNA 9530091C08 gene |
| EQC | (+)eQC-40 | 4.41 | unknown |
| A_51_P144143 | A_51_P144143 | 4.38 | unknown |
| NM_013650 | S100a8 | 4.37 | S100 calcium binding protein A8 (calgranulin A) |
| NM_001029933 | Zfp114 | 4.36 | Zinc finger protein 114 |
| NM_027222 | 2010001M09Rik | 4.04 | RIKEN cDNA 2010001M09 gene |
| BC009088 | Pvrl2 | 3.96 | Poliovirus receptor-related 2 |
| AK040647 | AK040647 | 3.83 | Polycomb group ring finger 5 |
| NM_144552 | Stxbp6 | 3.79 | Syntaxin binding protein 6 (amisyn) |
| NM_153159 | Zc3h12a | 3.76 | Zinc finger CCCH type containing 12A |
| NM_027919 | Tha1 | 3.66 | Threonine aldolase 1 |
| NAP042178-1 | NAP042178-1 | 3.63 | unknown |
| NM_011095 | Lilrb3 | 3.59 | Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 |
| NM_018790 | Arc | 3.59 | Activity regulated cytoskeletal-associated protein |
| NM_153115 | Spag11 | 3.54 | Sperm associated antigen 11 |
| XM_355437 | LOC381484 | 3.49 | unknown |
| NM_011612 | Tnfrsf9 | 3.38 | Tumor necrosis factor receptor superfamily, member 9 |
| NM_010488 | Elavl4 | 3.36 | ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D) |
| NM_174847 | 5830404H04Rik | 3.36 | RIKEN cDNA 5830404H04 gene |
| AK054477 | AK054477 | 3.35 | 2 days pregnant adult female ovary cDNA, RIKEN full-length enriched library, clone:E330029M15 product:unclassifiable, full insert sequence |
| TC1493753 | TC1493753 | 3.35 | unknown |
| BC061017 | 1700009P17Rik | 3.32 | RIKEN cDNA 1700009P17 gene |
| NM_175181 | 2600010E01Rik | 3.31 | RIKEN cDNA 2600010E01 gene |
| NM_023742 | Dtx2 | 3.29 | Deltex 2 homolog (Drosophila) |

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|---|---|---|---|
| NM_145523 | Gca | 3.12 | Grancalcin |
| BC022713 | BC022713 | 3.1 | CDNA sequence BC022713 |
| E1A_r60_a107 | (+)E1A_r60_a107 | 3.09 | unknown |
| NM_007969 | Expi | 3.08 | Extracellular proteinase inhibitor |
| BC004022 | BC004022 | 3.03 | CDNA sequence BC004022 |
| AK080472 | Zfp711 | 3.02 | unknown |
| AK018520 | 9030420J04Rik | 2.93 | unknown |
| EQC | (+)eQC-42 | 2.92 | unknown |
| NM_177723 | A030011M19 | 2.89 | V-set and immunoglobulin domain containing 8 |
| XM_132975 | C730024G19Rik | 2.88 | Antagonist of mitotic exit network 1 homolog (S. cerevisiae) |
| NM_011420 | Smn1 | 2.84 | Survival motor neuron 1 |
| AK006376 | 1700026D11Rik | 2.81 | RIKEN cDNA 1700026D11 gene |
| NM_178682 | 4933426M11Rik | 2.78 | RIKEN cDNA 4933426M11 gene |
| BC022654 | BC022654 | 2.75 | Mus musculus, clone IMAGE:4219318, mRNA |
| AK016501 | 4931432M23Rik | 2.74 | RIKEN cDNA 4931432M23 gene |
| CB182661 | CB182661 | 2.74 | Transcribed locus |
| NM_028732 | 4632428N05Rik | 2.72 | RIKEN cDNA 4632428N05 gene |
| S79463 | Sema4c | 2.71 | unknown |
| AK050745 | AK050745 | 2.66 | unknown |
| NM_001033632 | Ifitm6 | 2.62 | Interferon induced transmembrane protein 6 |
| NAP120816-001 | NAP120816-001 | 2.61 | unknown |
| NM_028718 | Traf3ip1 | 2.6 | TNF receptor-associated factor 3 interacting protein 1 |
| NM_025357 | Smpx | 2.56 | Small muscle protein, X-linked |
| NM_183223 | BC107364 | 2.56 | unknown |
| NM_001001495 | 9030611K07Rik | 2.55 | TNFAIP3 interacting protein 3 |
| NM_025582 | 2810405K02Rik | 2.54 | RIKEN cDNA 2810405K02 gene |
| NM_025681 | Lix1 | 2.53 | Limb expression 1 homolog (chicken) |
| NM_172579 | Sipa1l1 | 2.52 | Signal-induced proliferation-associated 1 like 1 |
| NM_145158 | Emilin2 | 2.49 | Elastin microfibril interfacer 2 |
| NM_153533 | Tenc1 | 2.49 | Tensin like C1 domain-containing phosphatase |
| NM_008929 | Dnajc3 | 2.46 | DnaJ (Hsp40) homolog, subfamily C, member 3A |
| NM_026073 | Rabl5 | 2.44 | RAB, member of RAS oncogene family-like 5 |
| XM_977942 | 1700084E18Rik | 2.44 | RIKEN cDNA 1700084E18 gene |
| NM_019549 | Plek | 2.43 | Pleckstrin |
| NM_022324 | Sdf2l1 | 2.4 | Stromal cell-derived factor 2-like 1 |
| NM_028968 | Ifitm7 | 2.39 | Interferon induced transmembrane protein 7 |
| NM_172267 | Phyhd1 | 2.39 | Phytanoyl-CoA dioxygenase domain containing 1 |
| AK084982 | AK084982 | 2.37 | Hypothetical protein LOC100043793 |
| NM_139308 | Stard7 | 2.37 | START domain containing 7 |
| NM_011245 | Rasgrf1 | 2.36 | RAS protein-specific guanine nucleotide-releasing factor 1 |
| NM_031997 | Tmem2 | 2.36 | Transmembrane protein 2 |
| NM_026667 | 9130005N14Rik | 2.32 | RIKEN cDNA 9130005N14 gene |
| NM_026454/AK030504 | Ube2f | 2.29 | Ubiquitin-conjugating enzyme E2F (putative) |
| NM_021395 | Hyou1 | 2.27 | Hypoxia up-regulated 1 |
| NM_028185 | Lsm11 | 2.27 | U7 snRNP-specific Sm-like protein LSM11 |

| | | | |
|---|---|---|---|
| NM_133206 | Znrf1 | 2.27 | Zinc and ring finger 1 |
| BC072593 | Sipa1l2 | 2.24 | Signal-induced proliferation-associated 1 like 2 |
| NM_199365 | 5330438I03Rik | 2.24 | unknown |
| DCP_20_0 | DCP_20_0 | 2.23 | unknown |
| NM_153504 | Rnf183 | 2.23 | Ring finger protein 183 |
| AK044953 | Dock1 | 2.22 | Dedicator of cyto-kinesis 1 |
| NM_026208 | 1700019N19Rik | 2.22 | RIKEN cDNA 1700019N19 gene |
| AK040362 | AK040362 | 2.18 | 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430088P17 product:unclassifiable, full insert sequence |
| AK042786 | Dgcr2 | 2.16 | DiGeorge syndrome critical region gene 2 |
| AK082385 | C230043N17Rik | 2.16 | Indoleamine-pyrrole 2,3 dioxygenase-like 1 |
| NM_199313 | AY053573 | 2.16 | CDNA sequence AY053573 |
| XM_357752 | LOC384622 | 2.16 | Predicted gene, EG384622 |
| NM_010851 | Myd88 | 2.13 | Myeloid differentiation primary response gene 88 |
| NM_011370 | Cyfip1 | 2.13 | Cytoplasmic FMR1 interacting protein 1 |
| NM_138589 | D7Wsu128e | 2.11 | Ubiquitin family domain containing 1 |
| ENSMUST00000049869 | ENSMUST00000049869 | 2.1 | unknown |
| AK012679 | 5730470L24Rik | 2.03 | unknown |

A corrected one-way analysis of variance was used to analyze the microarray data. Genes whose expression levels changed by at least 2-fold or more up-regulated genes ($P < 0.05$) as compared to unstimulated cells were considered to be differentially expressed in a statistically significant manner.