

## Supplementary Materials

**Supplementary Table S1. Inflammation-associated gene expression array targets.** List of genes investigated with the gene expression array including targets associated with apoptosis, angiogenesis, angiotensin, endothelin, inflammation, and immune adhesion.

Target gene	Target protein	Single qRT PCR Validation (yes/no)
<i>ACE</i>	Angiotensin-converting enzyme	no
<i>AGTR2</i>	Type-2 angiotensin II receptor	no
<i>BAX</i>	Apoptosis regulator BAX	no
<i>BCL2</i>	Apoptosis regulator Bcl 2	yes
<i>BCL2l1</i>	Bcl-2-like protein 1	no
<i>C3</i>	Complement 3	yes
<i>CCL19</i>	C-C motif chemokine 19	no
<i>CCL2</i>	C-C motif chemokine 2	yes
<i>CCL3</i>	C-C motif chemokine 3	no
<i>CCL5</i>	C-C motif chemokine 5	yes
<i>CCR2</i>	C-C chemokine receptor type 2	no
<i>CCR4</i>	C-C chemokine receptor type 4	no
<i>CCR7</i>	C-C chemokine receptor type 7	no
<i>CD19</i>	B-lymphocyte antigen CD19	no
<i>CD28</i>	T-cell-specific surface glycoprotein CD28	yes
<i>CD34</i>	Hematopoietic progenitor cell antigen CD34	no
<i>CD38</i>	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1	no
<i>CD3e</i>	T-cell surface glycoprotein CD3 epsilon chain	no
<i>CD4</i>	T-cell surface glycoprotein CD4	yes
<i>CD40</i>	Tumor necrosis factor receptor superfamily member 5	yes
<i>CD40lg</i>	Cluster of Differentiation 40 ligand	yes
<i>CD68</i>	Macrosialin	yes
<i>CD80</i>	T-lymphocyte activation antigen CD80	yes
<i>CD86</i>	T-lymphocyte activation antigen CD86	no
<i>CD8a</i>	T-cell surface glycoprotein CD8 alpha chain	no
<i>CSF1</i>	Macrophage colony-stimulating factor 1	no
<i>CSF2</i>	Granulocyte-macrophage colony-stimulating factor	no
<i>CTLA4</i>	Cytotoxic T-lymphocyte protein 4	no
<i>CXCL10</i>	C-X-C motif chemokine 10	no
<i>CXCL11</i>	C-X-C motif chemokine 11	no
<i>CXCR3</i>	C-X-C chemokine receptor type 3	no
<i>EDN1</i>	Endothelin-1	no
<i>FAS</i>	Tumor necrosis factor receptor superfamily member 6	no
<i>FASL</i>	ADAM10-processed FasL form	no
<i>FN1</i>	Fibronectin	no

<i>GZMB</i>	Granzyme B (G, H)	no
<i>H2-Eb1</i>	H-2 class II histocompatibility antigen, I-A beta chain	no
<i>Hmox1</i>	Heme oxygenase 1	yes
<i>ICAM1</i>	Intercellular adhesion molecule 1	yes
<i>ICOS</i>	Inducible T-cell costimulator	no
<i>IFNG</i>	Interferon gamma	no
<i>IKBKB</i>	Inhibitor of nuclear factor kappa-B kinase subunit beta	yes
<i>IL10</i>	Interleukin 10	yes
<i>IL12a</i>	Interleukin 12a	no
<i>IL12b</i>	Interleukin 12b	no
<i>IL13</i>	Interleukin 13	no
<i>IL15</i>	Interleukin 15	no
<i>IL18</i>	Interleukin 18	no
<i>IL1a</i>	Interleukin 1a	no
<i>IL1b</i>	Interleukin 1b	yes
<i>IL2ra</i>	Interleukin 2 receptor subunit alpha	no
<i>IL4</i>	Interleukin 4	yes
<i>IL5</i>	Interleukin 5	no
<i>IL6</i>	Interleukin 6	yes
<i>IL7</i>	Interleukin 7	no
<i>LIF</i>	Leukemia inhibitory factor	no
<i>LRP2</i>	Low-density lipoprotein receptor-related protein 2	no
<i>LY96</i>	Lymphocyte antigen 96	no
<i>NFATC3</i>	Nuclear factor of activated T-cells, cytoplasmic 3	yes
<i>NFATC4</i>	Nuclear factor of activated T-cells, cytoplasmic 4	no
<i>NFKB1</i>	Nuclear factor NF-kappa-B p105 subunit	no
<i>NFKB2</i>	Nuclear factor NF-kappa-B p100 subunit	no
<i>NOS2</i>	Nitric oxide synthase 2	no
<i>PRF1</i>	Perforin 1	no
<i>PTGS2</i>	Prostaglandin G/H synthase 2	no
<i>PTPRC</i>	Receptor-type tyrosine-protein phosphatase C	no
<i>SELE</i>	E-selectin	no
<i>SELP</i>	Selenoprotein P	no
<i>SKI</i>	Ski oncogene	no
<i>SMAD3</i>	Mothers against decapentaplegic homolog 3	no
<i>SMAD7</i>	Mothers against decapentaplegic homolog 7	no
<i>SOCS1</i>	Suppressor of cytokine signaling 1	no
<i>SOCS2</i>	Suppressor of cytokine signaling 2	no
<i>STAT1</i>	Signal transducer and activator of transcription 1	no

<i>STAT3</i>	Signal transducer and activator of transcription 3	yes
<i>STAT4</i>	Signal transducer and activator of transcription 4	no
<i>STAT6</i>	Signal transducer and activator of transcription 6	no
<i>TBX21</i>	T-box transcription factor TBX21	no
<i>TGF1B</i>	Transforming growth factor 1 beta	yes
<i>TNFa</i>	Tumor necrosis factor alpha	yes
<i>TNFRSF18</i>	Tumor necrosis factor receptor superfamily member 18	no
<i>VCAM1</i>	Vascular cell adhesion protein 1	no
<i>VEGFa</i>	Vascular endothelial growth factor A	yes
<i>18s</i>	18s ribosomal RNA subunit	no - endogenous control
<i>GAPDH</i>	Glyceraldehyde-3-phosphate dehydrogenase	no - endogenous control
<i>GUSB</i>	Beta-glucuronidase	no - endogenous control
<i>HPRT1</i>	Hypoxanthine-guanine phosphoribosyltransferase	no - endogenous control

**Supplementary Table S2. Additional inflammation-associated gene expression assays.** Listed genes investigated with single qRT PCR analysis including targets associated with inflammation. Genes were not included in the gene expression array listed under Table S1.

Target gene	Target protein
<i>CASP3</i>	Caspase 3
<i>GFAP</i>	Glial fibrillary acidic protein
<i>LRG1</i>	Leucine-rich alpha-2-glycoprotein 1
<i>NLRP3</i>	NACHT, LRR and PYD domains-containing Protein 3