

**Table S1:** List of the genes analyzed by quantitative RT-PCR using TaqMan Gene Expression Assays

Gene symbol	Name	Unigene reference	TaqMan® Gene expression Assay Reference
18S	Eukaryotic 18S rRNA	-	Hs99999901_s1
AHR	aryl hydrocarbon receptor	Hs.171189	Hs00169233_m1
B2M	beta-2-microglobulin	Hs.534255	Hs99999907_m1
BCL6	B-cell CLL/lymphoma 6	Hs.478588	Hs00277037_m1
BTLA	B and T lymphocyte associated (CD272)	Hs.445162	Hs00699198_m1
CASC3	cancer susceptibility candidate 3	Hs.725173	Hs00201226_m1
CCR4	chemokine (C-C motif) receptor 4	Hs.184926	Hs99999919_m1
CCR6	chemokine (C-C motif) receptor 6	Hs.46468	Hs00171121_m1
CCR7	chemokine (C-C motif) receptor 7	Hs.370036	Hs00171054_m1
CCR8	chemokine (C-C motif) receptor 8	Hs.113222	Hs00174764_m1
CD200	CD200 molecule	Hs.79015	Hs01033303_m1
CD40LG	CD40 ligand (CD154)	Hs.592244	Hs00163934_m1
CTLA4	cytotoxic T-lymphocyte-associated protein 4 (CD152)	Hs.247824	Hs00175480_m1
CXCL13	chemokine (C-X-C motif) ligand 13	Hs.100431	Hs00757930_m1
CXCR3	chemokine (C-X-C motif) receptor 3	Hs.198252	Hs00171041_m1
CXCR5	chemokine (C-X-C motif) receptor 5	Hs.113916	Hs00173527_m1
CYP1A1	cytochrome P450, family 1, subfamily A, polypeptide 1	Hs.72912	Hs00153120_m1
ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1 (CD39)	Hs.576612	Hs00169946_m1
FOXP3	forkhead box P3	Hs.247700	Hs00203958_m1
GATA3	GATA binding protein 3	Hs.524134	Hs00231122_m1
ICOS	inducible T-cell co-stimulator (CD278)	Hs.56247	Hs00359999_m1
IFNG	interferon, gamma	Hs.856	Hs00174143_m1
IL10	interleukin 10	Hs.193717	Hs99999035_m1
IL13	interleukin 13	Hs.845	Hs00174379_m1
IL17A	interleukin 17A	Hs.41724	Hs00174383_m1
IL17F	interleukin 17F	Hs.272295	Hs00369400_m1
IL2	interleukin 2	Hs.89679	Hs00174114_m1
IL21	interleukin 21	Hs.567559	Hs00222327_m1
IL22	interleukin 22	Hs.287369	Hs00220924_m1
IL25	interleukin 25	Hs.302036	Hs00224471_m1
IL26	interleukin 26	Hs.272350	Hs00218189_m1
IL27	interleukin 27	Hs.528111	Hs00377366_m1
IL4	interleukin 4	Hs.73917	Hs00174122_m1

<i>LTA</i>	lymphotoxin alpha (TNF superfamily, member 1)	Hs.36	Hs00236874_m1
<i>LTB</i>	lymphotoxin beta (TNF superfamily, member 3)	Hs.376208	Hs00242737_m1
<i>MAF</i>	v-maf musculoaponeurotic fibrosarcoma oncogene homolog	Hs.134859	Hs00193519_m1
<i>MME</i>	membrane metallo-endopeptidase (CD10)	Hs.307734	Hs00153510_m1
<i>OSM</i>	oncostatin M	Hs.248156	Hs00171165_m1
<i>PDCD1</i>	programmed cell death 1 (CD279)	Hs.158297	Hs00169472_m1
<i>PRDM1</i>	PR domain containing 1, with ZNF domain	Hs.436023	Hs00153357_m1
<i>RC3H1</i>	ring finger and CCCH-type zinc finger domains 1	Hs.30258	Hs02577215_m1
<i>RORA</i>	RAR-related orphan receptor A	Hs.560343	Hs00536545_m1
<i>RORC</i>	RAR-related orphan receptor C	Hs.256022	Hs01076112_m1
<i>SH2D1A</i>	SH2 domain protein 1A	Hs.349094	Hs00158978_m1
<i>TBX21</i>	T-box 21	Hs.272409	Hs00203436_m1
<i>TGFB1</i>	transforming growth factor, beta 1	Hs.645227	Hs99999918_m1
<i>TNF</i>	tumor necrosis factor (TNF superfamily, member 2)	Hs.241570	Hs00174128_m1
<i>TNFRSF18</i>	tumor necrosis factor receptor superfamily, member 18	Hs.212680	Hs00188346_m1

**Table S2:** Antibodies used for flow cytometry

<b>Anti-human antibody</b>	<b>Conjugation*</b>	<b>Supplier**</b>
Caspase 3	PE	BD
CD2	PC7	BC
CD3	ECD	BC
CD4	FITC	BC
CD4	PC7	BC
CD19	FITC	BC
CD20	FITC	BC
CD25	APC	BD
CD25	PC5.5	BD
CD25	PC7	BD
CD57	FITC	BC
CD86	PE	BC
CD127	A647	BD
CD200	A647	S
CXCR5	PE	RD
FOXP3	PE	EB
ICOS	BIOT	EB
IFN- $\gamma$	PE	BD
IL-4	PE	BD
kappa	FITC	BC
lambda	FITC	BC
PD-1	A647	EB
PD-1	FITC	EB

\* FITC: fluorescein isothiocyanate; PE: phycoerythrin; PC5.5: phycoerythrin cyanin 5.5; PC7: phycoerythrin cyanin 7; APC: allophycocyanin; ECD: energy-coupled-dye; A647: AlexaFluor 647; BIOT: biotinylated monoclonal antibody (revealed by streptavidin-ECD, PC5 or PC7 from Beckman Coulter)

\*\* BC: Beckman Coulter (Fullerton, CA); BD: BD Biosciences (San Diego, CA); EB: eBioscience (San Diego, CA); RD: R&D Systems (Abingdon, UK); S: AbD Serotec (Oxford, UK).