

Supplementary Table 6B: Liver tissue differential gene expression (Nanostring platform)

| Cluster 1 versus 3 | | | | |
|---------------------------|--|--------------------|----------------|----------------|
| Gene Symbol | Gene Name | Fold Change | P-value | Q-value |
| CXCL9 | C-X-C motif chemokine ligand 9 | 3.46 | 1.47E-07 | 3.91E-05 |
| CD8A | CD8a molecule | 3.29 | 4.52E-06 | 3.37E-04 |
| CD27 | CD27 molecule | 3.28 | 5.22E-08 | 3.91E-05 |
| CTLA4 | cytotoxic T-lymphocyte associated protein 4 | 2.93 | 5.14E-07 | 8.69E-05 |
| MMP9 | matrix metalloproteinase 9 | 2.80 | 1.58E-05 | 6.91E-04 |
| CXCR3 | C-X-C motif chemokine receptor 3 | 2.68 | 5.59E-06 | 3.72E-04 |
| CD1E | CD1e molecule | 2.65 | 1.23E-07 | 3.91E-05 |
| CCL19 | C-C motif chemokine ligand 19 | 2.53 | 8.02E-06 | 4.70E-04 |
| SPN | sialophorin | 2.44 | 4.99E-05 | 1.66E-03 |
| CCL18 | C-C motif chemokine ligand 18 | 2.43 | 1.88E-04 | 3.83E-03 |
| CXCL10 | C-X-C motif chemokine ligand 10 | 2.36 | 1.35E-05 | 6.35E-04 |
| CXCL11 | C-X-C motif chemokine ligand 11 | 2.31 | 5.45E-07 | 8.69E-05 |
| CD3G | CD3g molecule | 2.29 | 2.39E-04 | 4.65E-03 |
| TNFRSF9 | TNF receptor superfamily member 9 | 2.25 | 2.97E-06 | 2.63E-04 |
| GZMM | granzyme M | 2.24 | 4.28E-05 | 1.55E-03 |
| MS4A1 | membrane spanning 4-domains A1 | 2.21 | 6.11E-04 | 8.93E-03 |
| BIRC5 | baculoviral IAP repeat containing 5 | 2.18 | 1.04E-03 | 1.29E-02 |
| CD5 | CD5 molecule | 2.18 | 3.83E-04 | 6.11E-03 |
| CRP | C-reactive protein | -2.16 | 1.19E-02 | 7.21E-02 |
| UBD | ubiquitin D | 2.16 | 1.65E-05 | 6.91E-04 |
| IGKC | immunoglobulin kappa constant | 2.15 | 2.15E-06 | 2.14E-04 |
| IL2RA | interleukin 2 receptor subunit alpha | 2.07 | 4.24E-03 | 3.45E-02 |
| CD2 | CD2 molecule | 2.03 | 7.37E-05 | 2.14E-03 |
| LAMP3 | lysosomal associated membrane protein 3 | 2.02 | 1.63E-03 | 1.76E-02 |
| CD80 | CD80 molecule | 2.01 | 7.39E-04 | 1.02E-02 |
| CD6 | CD6 molecule | 2.00 | 6.27E-04 | 8.93E-03 |
| BTLA | B and T lymphocyte associated | 2.00 | 2.72E-04 | 4.82E-03 |
| CCL4 | C-C motif chemokine ligand 4 | 1.99 | 8.85E-06 | 4.70E-04 |
| CD200 | CD200 molecule | 1.99 | 4.09E-04 | 6.32E-03 |
| TNFSF15 | TNF superfamily member 15 | 1.97 | 1.16E-03 | 1.35E-02 |
| CLEC4C | C-type lectin domain family 4 member C | 1.96 | 2.25E-03 | 2.24E-02 |
| LCK | LCK proto-oncogene, Src family tyrosine kinase | 1.96 | 8.47E-06 | 4.70E-04 |
| CD8B | CD8b molecule | 1.95 | 7.90E-04 | 1.07E-02 |
| CD22 | CD22 molecule | 1.94 | 1.84E-02 | 9.77E-02 |
| CARD9 | caspase recruitment domain family member 9 | 1.91 | 7.16E-04 | 1.00E-02 |
| ICOS | inducible T-cell costimulator | 1.91 | 3.27E-05 | 1.24E-03 |
| CCL21 | C-C motif chemokine ligand 21 | 1.90 | 1.38E-06 | 1.83E-04 |
| FLT3 | fms related tyrosine kinase 3 | 1.89 | 1.03E-03 | 1.29E-02 |
| PTGDS | prostaglandin D2 synthase | 1.89 | 5.41E-04 | 8.14E-03 |
| LTB | lymphotoxin beta | 1.87 | 5.58E-05 | 1.72E-03 |
| TNFRSF18 | TNF receptor superfamily member 18 | 1.86 | 1.61E-04 | 3.38E-03 |
| IDO1 | indoleamine 2,3-dioxygenase 1 | 1.86 | 9.82E-05 | 2.33E-03 |
| LAIR2 | leukocyte associated immunoglobulin like receptor 2 | 1.82 | 1.41E-03 | 1.54E-02 |
| CARD11 | caspase recruitment domain family member 11 | 1.82 | 1.10E-03 | 1.34E-02 |
| CD28 | CD28 molecule | 1.81 | 4.65E-06 | 3.37E-04 |
| RUNX3 | runt related transcription factor 3 | 1.80 | 9.66E-04 | 1.24E-02 |
| PBK | PDZ binding kinase | 1.80 | 6.09E-03 | 4.50E-02 |
| ITK | IL2 inducible T-cell kinase | 1.79 | 2.09E-03 | 2.17E-02 |
| CD3D | CD3d molecule | 1.79 | 1.28E-04 | 2.83E-03 |
| EBI3 | Epstein-Barr virus induced 3 | 1.78 | 4.23E-03 | 3.45E-02 |
| TNFRSF13C | TNF receptor superfamily member 13C | 1.78 | 1.30E-03 | 1.48E-02 |
| NLRC5 | NLR family CARD domain containing 5 | 1.77 | 4.50E-05 | 1.56E-03 |
| ZAP70 | zeta chain of T-cell receptor associated protein kinase 70 | 1.77 | 1.31E-05 | 6.35E-04 |
| CD3E | CD3e molecule | 1.76 | 2.34E-03 | 2.28E-02 |
| CCL20 | C-C motif chemokine ligand 20 | 1.74 | 4.96E-03 | 3.84E-02 |
| CXCL13 | C-X-C motif chemokine ligand 13 | 1.74 | 2.38E-02 | 1.16E-01 |
| TLR10 | toll like receptor 10 | 1.74 | 4.76E-03 | 3.79E-02 |
| SLAMF6 | SLAM family member 6 | 1.73 | 3.80E-03 | 3.19E-02 |
| IL21R | interleukin 21 receptor | 1.73 | 9.27E-04 | 1.21E-02 |
| CDK1 | cyclin dependent kinase 1 | 1.72 | 8.72E-03 | 5.84E-02 |
| LY9 | lymphocyte antigen 9 | 1.72 | 2.54E-04 | 4.82E-03 |

Supplementary Table 6B: Liver tissue differential gene expression (Nanostring platform; continued)

| Cluster 1 versus 3 | | | | |
|---------------------------|--|--------------------|----------------|----------------|
| Gene Symbol | Gene Name | Fold Change | P-value | Q-value |
| TNF | tumor necrosis factor | 1.72 | 5.01E-03 | 3.84E-02 |
| TARP | TCR gamma alternate reading frame protein | 1.70 | 2.99E-03 | 2.68E-02 |
| CCR7 | C-C motif chemokine receptor 7 | 1.70 | 8.06E-05 | 2.14E-03 |
| CD19 | CD19 molecule | 1.68 | 3.23E-03 | 2.83E-02 |
| SLAMF7 | SLAM family member 7 | 1.68 | 1.14E-03 | 1.35E-02 |
| HLA-DOB | major histocompatibility complex, class II, DO beta | 1.68 | 3.32E-03 | 2.88E-02 |
| IRF4 | interferon regulatory factor 4 | 1.68 | 2.57E-02 | 1.20E-01 |
| ITGA2 | integrin subunit alpha 2 | 1.68 | 3.77E-03 | 3.19E-02 |
| NOD2 | nucleotide binding oligomerization domain containing 2 | 1.67 | 9.89E-03 | 6.38E-02 |
| PLAUR | plasminogen activator, urokinase receptor | 1.67 | 1.03E-02 | 6.57E-02 |
| IL7R | interleukin 7 receptor | 1.67 | 2.33E-03 | 2.28E-02 |
| TOP2A | DNA topoisomerase II alpha | 1.67 | 1.98E-02 | 1.02E-01 |
| F13A1 | coagulation factor XIII A chain | 1.67 | 2.61E-02 | 1.22E-01 |
| CD7 | CD7 molecule | 1.66 | 7.27E-03 | 5.13E-02 |
| CD1C | CD1c molecule | 1.64 | 2.67E-04 | 4.82E-03 |
| TNFRSF17 | TNF receptor superfamily member 17 | 1.63 | 1.30E-02 | 7.57E-02 |
| CXCL6 | C-X-C motif chemokine ligand 6 | 1.62 | 2.01E-02 | 1.03E-01 |
| CD96 | CD96 molecule | 1.59 | 1.16E-03 | 1.35E-02 |
| IL1B | interleukin 1 beta | 1.59 | 2.40E-02 | 1.16E-01 |
| GZMB | granzyme B | 1.58 | 1.28E-02 | 7.57E-02 |
| JAK3 | Janus kinase 3 | 1.58 | 2.69E-03 | 2.46E-02 |
| IL2RG | interleukin 2 receptor subunit gamma | 1.57 | 2.69E-04 | 4.82E-03 |
| TLR8 | toll like receptor 8 | 1.57 | 2.90E-02 | 1.32E-01 |
| SEMA3D | semaphorin 3D | 1.56 | 2.70E-02 | 1.24E-01 |
| CD37 | CD37 molecule | 1.56 | 2.65E-02 | 1.23E-01 |
| CD40LG | CD40 ligand | 1.56 | 1.62E-02 | 8.71E-02 |
| ITGAX | integrin subunit alpha X | 1.55 | 3.08E-04 | 5.11E-03 |
| CCL13 | C-C motif chemokine ligand 13 | 1.55 | 1.38E-02 | 7.82E-02 |
| NFATC4 | nuclear factor of activated T-cells 4 | 1.55 | 1.04E-02 | 6.59E-02 |
| CD48 | CD48 molecule | 1.55 | 2.80E-04 | 4.84E-03 |
| BCL2 | BCL2, apoptosis regulator | 1.55 | 2.44E-05 | 9.72E-04 |
| IKBKE | inhibitor of nuclear factor kappa B kinase subunit epsilon | 1.55 | 1.07E-02 | 6.70E-02 |
| CXCR5 | C-X-C motif chemokine receptor 5 | 1.55 | 2.99E-04 | 5.07E-03 |
| TAP1 | transporter 1, ATP binding cassette subfamily B member | 1.54 | 8.67E-05 | 2.16E-03 |
| BTK | Bruton tyrosine kinase | 1.53 | 7.95E-05 | 2.14E-03 |
| SH2D1A | SH2 domain containing 1A | 1.53 | 1.37E-03 | 1.54E-02 |
| CXCR4 | C-X-C motif chemokine receptor 4 | 1.53 | 2.22E-03 | 2.24E-02 |
| KLRK1 | killer cell lectin like receptor K1 | 1.52 | 2.00E-03 | 2.10E-02 |
| CD83 | CD83 molecule | 1.52 | 3.64E-03 | 3.12E-02 |
| NCAM1 | neural cell adhesion molecule 1 | -1.51 | 2.85E-03 | 2.58E-02 |
| IL23R | interleukin 23 receptor | 1.50 | 8.62E-04 | 1.15E-02 |
| CD79A | CD79a molecule | 1.50 | 2.22E-03 | 2.24E-02 |