

## Supplementary Table S1

### nCounter Human Immunology V2 Panel Gene List

and the 20 additional genes included in the Custom CodeSet (nCounter, NanoString)

<b>Official Symbol</b>	<b>Accession</b>
ABCB1	<a href="#">NM_000927.3</a>
ABL1	<a href="#">NM_005157.3</a>
ADA	<a href="#">NM_000022.2</a>
AHR	<a href="#">NM_001621.3</a>
AICDA	<a href="#">NM_020661.1</a>
AIRE	<a href="#">NM_000383.2</a>
APP	<a href="#">NM_000484.3</a>
ARG1	<a href="#">NM_000045.2</a>
ARG2	<a href="#">NM_001172.3</a>
ARHGDI1	<a href="#">NM_001175.4</a>
ATG10	<a href="#">NM_001131028.1</a>
ATG12	<a href="#">NM_004707.2</a>
ATG16L1	<a href="#">NM_198890.2</a>
ATG5	<a href="#">NM_004849.2</a>
ATG7	<a href="#">NM_001136031.2</a>
ATM	<a href="#">NM_000051.3</a>
B2M	<a href="#">NM_004048.2</a>
B3GAT1	<a href="#">NM_018644.3</a>
BATF	<a href="#">NM_006399.3</a>
BATF3	<a href="#">NM_018664.2</a>
BAX	<a href="#">NM_138761.3</a>
BCAP31	<a href="#">NM_005745.7</a>
BCL10	<a href="#">NM_003921.2</a>
BCL2	<a href="#">NM_000657.2</a>
BCL2L11	<a href="#">NM_138621.4</a>
BCL3	<a href="#">NM_005178.2</a>
BCL6	<a href="#">NM_001706.2</a>
BID	<a href="#">NM_001196.2</a>
BLNK	<a href="#">NM_013314.2</a>
BST1	<a href="#">NM_004334.2</a>
BST2	<a href="#">NM_004335.2</a>
BTK	<a href="#">NM_000061.1</a>
BTLA	<a href="#">NM_181780.2</a>
C14orf166	<a href="#">NM_016039.2</a>
C1QA	<a href="#">NM_015991.2</a>
C1QB	<a href="#">NM_000491.3</a>
C1QBP	<a href="#">NM_001212.3</a>
C1R	<a href="#">NM_001733.4</a>
C1S	<a href="#">NM_001734.2</a>
C2	<a href="#">NM_000063.3</a>
C3	<a href="#">NM_000064.2</a>

C4A/B	<a href="#">NM_007293.2</a>
C4BPA	<a href="#">NM_000715.3</a>
C5	<a href="#">NM_001735.2</a>
C6	<a href="#">NM_000065.2</a>
C7	<a href="#">NM_000587.2</a>
C8A	<a href="#">NM_000562.2</a>
C8B	<a href="#">NM_000066.2</a>
C8G	<a href="#">NM_000606.2</a>
C9	<a href="#">NM_001737.3</a>
CAMP	<a href="#">NM_004345.3</a>
CARD9	<a href="#">NM_052813.4</a>
CASP1	<a href="#">NM_001223.3</a>
CASP10	<a href="#">NM_032977.3</a>
CASP2	<a href="#">NM_032982.2</a>
CASP3	<a href="#">NM_032991.2</a>
CASP8	<a href="#">NM_001228.4</a>
CCBP2	<a href="#">NM_001296.3</a>
CCL11	<a href="#">NM_002986.2</a>
CCL13	<a href="#">NM_005408.2</a>
CCL15	<a href="#">NM_032965.3</a>
CCL16	<a href="#">NM_004590.2</a>
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CCL19	<a href="#">NM_006274.2</a>
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CCL23	<a href="#">NM_145898.1</a>
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CCL26	<a href="#">NM_006072.4</a>
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CCL5	<a href="#">NM_002985.2</a>
CCL7	<a href="#">NM_006273.2</a>
CCL8	<a href="#">NM_005623.2</a>
CCND3	<a href="#">NM_001760.2</a>
CCR1	<a href="#">NM_001295.2</a>
CCR10	<a href="#">NM_016602.2</a>
CCR2	<a href="#">NM_001123041.2</a>
CCR5	<a href="#">NM_000579.1</a>
CCR6	<a href="#">NM_031409.2</a>
CCR7	<a href="#">NM_001838.2</a>
CCR8	<a href="#">NM_005201.2</a>
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CCRL2	<a href="#">NM_003965.4</a>
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CD160	<a href="#">NM_007053.2</a>

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CD164	<a href="#">NM_006016.4</a>
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CD1D	<a href="#">NM_001766.3</a>
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CD22	<a href="#">NM_001771.2</a>
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CD36	<a href="#">NM_001001548.2</a>
CD3D	<a href="#">NM_000732.4</a>
CD3E	<a href="#">NM_000733.2</a>
CD3EAP	<a href="#">NM_012099.1</a>
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CD40	<a href="#">NM_001250.4</a>
CD40LG	<a href="#">NM_000074.2</a>
CD44	<a href="#">NM_001001392.1</a>
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CD82	<a href="#">NM_002231.3</a>
CD83	<a href="#">NM_004233.3</a>
CD86	<a href="#">NM_175862.3</a>
CD8A	<a href="#">NM_001768.5</a>
CD8B	<a href="#">NM_004931.3</a>
CD9	<a href="#">NM_001769.2</a>
CD96	<a href="#">NM_005816.4</a>

CD97	<a href="#">NM_078481.2</a>
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CDH5	<a href="#">NM_001795.3</a>
CDKN1A	<a href="#">NM_000389.2</a>
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CEACAM6	<a href="#">NM_002483.4</a>
CEACAM8	<a href="#">NM_001816.3</a>
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CFP	<a href="#">NM_002621.2</a>
CHUK	<a href="#">NM_001278.3</a>
CIITA	<a href="#">NM_000246.3</a>
CISH	<a href="#">NM_145071.2</a>
CLEC4A	<a href="#">NM_194448.2</a>
CLEC4E	<a href="#">NM_014358.2</a>
CLEC5A	<a href="#">NM_013252.2</a>
CLEC6A	<a href="#">NM_001007033.1</a>
CLEC7A	<a href="#">NM_197954.2</a>
CLU	<a href="#">NM_001831.2</a>
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CSF1R	<a href="#">NM_005211.2</a>
CSF2	<a href="#">NM_000758.2</a>
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CSF3R	<a href="#">NM_156038.2</a>
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CTLA4-TM (memb	<a href="#">NM_005214.3</a>
sCTLA4 (soluble fc	<a href="#">NM_001037631.1</a>
CTNNB1	<a href="#">NM_001098210.1</a>
CTSC	<a href="#">NM_001814.4</a>
CTSG	<a href="#">NM_001911.2</a>
CTSS	<a href="#">NM_004079.3</a>
CUL9	<a href="#">NM_015089.2</a>
CX3CL1	<a href="#">NM_002996.3</a>
CX3CR1	<a href="#">NM_001337.3</a>
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CXCL10	<a href="#">NM_001565.1</a>
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CXCR6	<a href="#">NM_006564.1</a>
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DEFB103B	<a href="#">NM_018661.3</a>
DEFB4A	<a href="#">NM_004942.2</a>
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ETS1	<a href="#">NM_005238.3</a>
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FCER1G	<a href="#">NM_004106.1</a>
FCGR1A/B	<a href="#">NM_000566.3</a>
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FCGR2B	<a href="#">NM_001002273.1</a>
FCGR3A/B	<a href="#">NM_000570.4</a>
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FKBP5	<a href="#">NM_001145775.1</a>
FN1	<a href="#">NM_212482.1</a>
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FYN	<a href="#">NM_002037.3</a>
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GBP5	<a href="#">NM_052942.3</a>
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GPI	<a href="#">NM_000175.2</a>
GPR183	<a href="#">NM_004951.3</a>
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GZMK	<a href="#">NM_002104.2</a>
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HLA-B	<a href="#">NM_005514.6</a>
HLA-C	<a href="#">NM_002117.4</a>
HLA-DMA	<a href="#">NM_006120.3</a>
HLA-DMB	<a href="#">NM_002118.3</a>
HLA-DOB	<a href="#">NM_002120.3</a>
HLA-DPA1	<a href="#">NM_033554.2</a>
HLA-DPB1	<a href="#">NM_002121.4</a>
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HLA-DQB1	<a href="#">NM_002123.3</a>
HLA-DRA	<a href="#">NM_019111.3</a>
HLA-DRB1	<a href="#">NM_002124.2</a>
HLA-DRB3	<a href="#">NM_022555.3</a>
HRAS	<a href="#">NM_005343.2</a>
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ICAM2	<a href="#">NM_000873.3</a>
ICAM3	<a href="#">NM_002162.3</a>
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ICAM5	<a href="#">NM_003259.3</a>
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IDO1	<a href="#">NM_002164.3</a>
IFI16	<a href="#">NM_005531.1</a>
IFI35	<a href="#">NM_005533.3</a>
IFIH1	<a href="#">NM_022168.2</a>
IFIT2	<a href="#">NM_001547.4</a>
IFITM1	<a href="#">NM_003641.3</a>
IFNA1/13	<a href="#">NM_024013.1</a>
IFNA2	<a href="#">NM_000605.3</a>
IFNAR1	<a href="#">NM_000629.2</a>
IFNAR2	<a href="#">NM_000874.3</a>
IFNB1	<a href="#">NM_002176.2</a>
IFNG	<a href="#">NM_000619.2</a>
IFNGR1	<a href="#">NM_000416.1</a>
IGF2R	<a href="#">NM_000876.1</a>
IKBKAP	<a href="#">NM_003640.3</a>
IKBKB	<a href="#">NM_001556.1</a>
IKBKE	<a href="#">NM_014002.2</a>
IKBKG	<a href="#">NM_003639.2</a>
IKZF1	<a href="#">NM_006060.3</a>
IKZF2	<a href="#">NM_016260.2</a>
IKZF3	<a href="#">NM_183232.2</a>

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IL12B	<a href="#">NM_002187.2</a>
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IL13	<a href="#">NM_002188.2</a>
IL13RA1	<a href="#">NM_001560.2</a>
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IL17B	<a href="#">NM_014443.2</a>
IL17F	<a href="#">NM_052872.3</a>
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IL18R1	<a href="#">NM_003855.2</a>
IL18RAP	<a href="#">NM_003853.2</a>
IL19	<a href="#">NM_013371.3</a>
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IL1B	<a href="#">NM_000576.2</a>
IL1R1	<a href="#">NM_000877.2</a>
IL1R2	<a href="#">NM_173343.1</a>
IL1RAP	<a href="#">NM_002182.2</a>
IL1RL1	<a href="#">NM_016232.4</a>
IL1RL2	<a href="#">NM_003854.2</a>
IL1RN	<a href="#">NM_000577.3</a>
IL2	<a href="#">NM_000586.2</a>
IL20	<a href="#">NM_018724.3</a>
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IL21R	<a href="#">NM_021798.2</a>
IL22	<a href="#">NM_020525.4</a>
IL22RA2	<a href="#">NM_181310.1</a>
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IL23R	<a href="#">NM_144701.2</a>
IL26	<a href="#">NM_018402.1</a>
IL27	<a href="#">NM_145659.3</a>
IL28A	<a href="#">NM_172138.1</a>
IL28A/B	<a href="#">NM_172139.2</a>
IL29	<a href="#">NM_172140.1</a>
IL2RA	<a href="#">NM_000417.1</a>
IL2RB	<a href="#">NM_000878.2</a>
IL2RG	<a href="#">NM_000206.1</a>
IL3	<a href="#">NM_000588.3</a>
IL32	<a href="#">NM_001012633.1</a>
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IL4R	<a href="#">NM_000418.2</a>
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IL6ST	<a href="#">NM_002184.2</a>
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IRF3	<a href="#">NM_001571.5</a>
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IRF7	<a href="#">NM_001572.3</a>
IRF8	<a href="#">NM_002163.2</a>
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ITLN1	<a href="#">NM_017625.2</a>
ITLN2	<a href="#">NM_080878.2</a>
JAK1	<a href="#">NM_002227.1</a>
JAK2	<a href="#">NM_004972.2</a>
JAK3	<a href="#">NM_000215.2</a>
KCNJ2	<a href="#">NM_000891.2</a>
KIR_Activating_Su	<a href="#">NM_001083539.1</a>
KIR_Activating_Su	<a href="#">NM_014512.1</a>
KIR_Inhibiting_Su	<a href="#">NM_014218.2</a>
KIR_Inhibiting_Su	<a href="#">NM_014511.3</a>
KIR3DL1	<a href="#">NM_013289.2</a>
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KLRC1	<a href="#">NM_002259.3</a>



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KLRK1	<a href="#">NM_007360.1</a>
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LAIR1	<a href="#">NM_002287.3</a>
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LEF1	<a href="#">NM_016269.3</a>
LGALS3	<a href="#">NM_001177388.1</a>
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LILRA3	<a href="#">NM_006865.3</a>
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LILRA5	<a href="#">NM_181879.2</a>
LILRA6	<a href="#">NM_024318.2</a>
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LILRB2	<a href="#">NM_005874.1</a>
LILRB3	<a href="#">NM_006864.2</a>
LILRB4	<a href="#">NM_001081438.1</a>
LILRB5	<a href="#">NM_001081442.1</a>
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LTA	<a href="#">NM_000595.2</a>
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LY96	<a href="#">NM_015364.2</a>
MAF	<a href="#">NM_005360.4</a>
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MAP4K2	<a href="#">NM_004579.2</a>
MAP4K4	<a href="#">NM_004834.3</a>
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MAPKAPK2	<a href="#">NM_004759.3</a>
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MME	<a href="#">NM_000902.2</a>
MR1	<a href="#">NM_001531.2</a>
MRC1	<a href="#">NM_002438.2</a>
MS4A1	<a href="#">NM_152866.2</a>
MSR1	<a href="#">NM_002445.3</a>
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NCR1	<a href="#">NM_004829.5</a>
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NFKBIZ	<a href="#">NM_001005474.1</a>
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NOD2	<a href="#">NM_022162.1</a>
NOS2	<a href="#">NM_000625.4</a>
NOTCH1	<a href="#">NM_017617.3</a>
NOTCH2	<a href="#">NM_024408.3</a>
NT5E	<a href="#">NM_002526.2</a>
PAX5	<a href="#">NM_016734.1</a>
PDCD1	<a href="#">NM_005018.1</a>
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PDCD2	<a href="#">NM_144781.2</a>
PDGFB	<a href="#">NM_033016.2</a>
PDGFRB	<a href="#">NM_002609.3</a>
PECAM1	<a href="#">NM_000442.3</a>
PIGR	<a href="#">NM_002644.2</a>
PLA2G2A	<a href="#">NM_000300.2</a>
PLA2G2E	<a href="#">NM_014589.1</a>
PLAU	<a href="#">NM_002658.2</a>
PLAUR	<a href="#">NM_001005376.1</a>
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POU2F2	<a href="#">NM_002698.2</a>
PPARG	<a href="#">NM_015869.3</a>

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PRF1	<a href="#">NM_005041.3</a>
PRKCD	<a href="#">NM_006254.3</a>
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PSMB5	<a href="#">NM_001130725.1</a>
PSMB7	<a href="#">NM_002799.2</a>
PSMB8	<a href="#">NM_004159.4</a>
PSMB9	<a href="#">NM_002800.4</a>
PSMC2	<a href="#">NM_002803.3</a>
PSMD7	<a href="#">NM_002811.3</a>
PTAFR	<a href="#">NM_000952.3</a>
PTGER4	<a href="#">NM_000958.2</a>
PTGS2	<a href="#">NM_000963.1</a>
PTK2	<a href="#">NM_005607.3</a>
PTPN2	<a href="#">NM_002828.2</a>
PTPN22	<a href="#">NM_015967.4</a>
PTPN6	<a href="#">NM_002831.5</a>
PTPRC_all (comm	<a href="#">NM_080921.2</a>
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CD45RA	<a href="#">NM_002838.4</a>
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PYCARD	<a href="#">NM_013258.3</a>
RAF1	<a href="#">NM_002880.2</a>
RAG1	<a href="#">NM_000448.2</a>
RAG2	<a href="#">NM_000536.3</a>
RARRES3	<a href="#">NM_004585.3</a>
RELA	<a href="#">NM_021975.2</a>
RELB	<a href="#">NM_006509.2</a>
RORC	<a href="#">NM_001001523.1</a>
RUNX1	<a href="#">NM_001754.4</a>
S100A8	<a href="#">NM_002964.3</a>
S100A9	<a href="#">NM_002965.2</a>
S1PR1	<a href="#">NM_001400.3</a>
SELE	<a href="#">NM_000450.2</a>
SELL	<a href="#">NR_029467.1</a>
SELPLG	<a href="#">NM_003006.3</a>
SERPING1	<a href="#">NM_000062.2</a>
SH2D1A	<a href="#">NM_001114937.2</a>
SIGIRR	<a href="#">NM_021805.2</a>
SKI	<a href="#">NM_003036.2</a>
SLAMF1	<a href="#">NM_003037.2</a>
SLAMF6	<a href="#">NM_001184714.1</a>
SLAMF7	<a href="#">NM_021181.3</a>
SLC2A1	<a href="#">NM_006516.2</a>
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SMAD5	<a href="#">NM_005903.5</a>
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STAT2	<a href="#">NM_005419.2</a>
STAT3	<a href="#">NM_139276.2</a>
STAT4	<a href="#">NM_003151.2</a>
STAT5A	<a href="#">NM_003152.2</a>
STAT5B	<a href="#">NM_012448.3</a>
STAT6	<a href="#">NM_003153.3</a>
SYK	<a href="#">NM_003177.3</a>
TAGAP	<a href="#">NM_054114.3</a>
TAL1	<a href="#">NM_003189.2</a>
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TBK1	<a href="#">NM_013254.2</a>
TBX21	<a href="#">NM_013351.1</a>
TCF4	<a href="#">NM_003199.1</a>
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TFRC	<a href="#">NM_003234.1</a>
TGFB1	<a href="#">NM_000660.3</a>
TGFBI	<a href="#">NM_000358.2</a>
TGFBR1	<a href="#">NM_004612.2</a>
TGFBR2	<a href="#">NM_001024847.1</a>
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TIGIT	<a href="#">NM_173799.2</a>
TIRAP	<a href="#">NM_148910.2</a>
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TNFAIP6	<a href="#">NM_007115.2</a>
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TNFRSF11A	<a href="#">NM_003839.2</a>
TNFRSF13B	<a href="#">NM_012452.2</a>

TNFRSF13C	<a href="#">NM_052945.3</a>
TNFRSF14	<a href="#">NM_003820.2</a>
TNFRSF17	<a href="#">NM_001192.2</a>
TNFRSF1B	<a href="#">NM_001066.2</a>
TNFRSF4	<a href="#">NM_003327.2</a>
TNFRSF8	<a href="#">NM_152942.2</a>
TNFRSF9	<a href="#">NM_001561.4</a>
TNFSF10	<a href="#">NM_003810.2</a>
TNFSF11	<a href="#">NM_003701.2</a>
TNFSF12	<a href="#">NM_003809.2</a>
TNFSF13B	<a href="#">NM_006573.4</a>
TNFSF15	<a href="#">NM_001204344.1</a>
TNFSF4	<a href="#">NM_003326.2</a>
TNFSF8	<a href="#">NM_001244.3</a>
TOLLIP	<a href="#">NM_019009.2</a>
TP53	<a href="#">NM_000546.2</a>
TRAF1	<a href="#">NM_005658.3</a>
TRAF2	<a href="#">NM_021138.3</a>
TRAF3	<a href="#">NM_145725.1</a>
TRAF4	<a href="#">NM_004295.2</a>
TRAF5	<a href="#">NM_004619.3</a>
TRAF6	<a href="#">NM_145803.1</a>
TYK2	<a href="#">NM_003331.3</a>
UBE2L3	<a href="#">NM_198157.1</a>
VCAM1	<a href="#">NM_001078.3</a>
VTN	<a href="#">NM_000638.3</a>
XBP1	<a href="#">NM_005080.2</a>
XCL1	<a href="#">NM_002995.1</a>
XCR1	<a href="#">NM_005283.2</a>
ZAP70	<a href="#">NM_001079.3</a>
ZBTB16	<a href="#">NM_006006.4</a>
ZEB1	<a href="#">NM_001128128.1</a>

#### **Internal Reference Genes**

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ABCF1	<a href="#">NM_001090.2</a>
ALAS1	<a href="#">NM_000688.4</a>
EEF1G	<a href="#">NM_001404.4</a>
G6PD	<a href="#">NM_000402.2</a>
GAPDH	<a href="#">NM_002046.3</a>
GUSB	<a href="#">NM_000181.1</a>
HPRT1	<a href="#">NM_000194.1</a>
OAZ1	<a href="#">NM_004152.2</a>
POLR1B	<a href="#">NM_019014.3</a>
POLR2A	<a href="#">NM_000937.2</a>
PPIA	<a href="#">NM_021130.2</a>
SDHA	<a href="#">NM_004168.1</a>
TBP	<a href="#">NM_001172085.1</a>

TUBB [NM\\_178014.2](#)

RPL19 [NM\\_000981.3](#)

**Custom code set probes**

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<b>Official Symbol</b>	<b>Accession</b>
SIGLEC1	NM_023068.3
BLK	NM_001715.2
VH4-34 (9G4)	AY058025.1
PARP9	NM_031458.2
BANK1	NM_017935.4
TNFRSF13C	NM_052945.3
NRP4	NM_003873.5
IRF9	NM_006084.4
TNFSF10 (TRAIL)	NM_003810.3
HAVCR1	NM_012206.3
RASGRP3	NM_001139488.1
SKAP2	NM_003930.4
BACH2	NM_021813.3
PTPN11	NM_002834.3
PLCG1	NM_002660.2
CD300a	NM_007261.3
NCR2	NM_004828.3
PLXNA1	NM_032242.3
TYROBP	NM_003332.3
S1PR4	NM_003775.3