

## **Supplementary Materials and Methods**

### **Gene expression analysis**

CD3<sup>-</sup>CD56<sup>bright</sup>CD16<sup>-</sup> and CD3<sup>-</sup>CD56<sup>dim</sup>CD16<sup>+</sup> cells from liver perfusate or peripheral blood from healthy volunteers were sorted using FACS Aria II (BD Biosciences), and total RNA was isolated using TRIzol reagent (Invitrogen), following standard protocols. Transcriptomic analysis was performed using nCounter Human Immunology Panel v2 (NANOstring, Seattle, WA, USA) by PhileKorea, Co. (Daejeon, Korea). N=2-3 for each group.

**Supplementary Table 1.** Mean fluorescence intensity of the selected cell death receptors and activating ligands on HCC cell lines. Data are representatives of at least 3 independent experiments.

| MFI    | SNU398 | Huh7 |
|--------|--------|------|
| CD40   | 1603   | 2313 |
| DR4    | 689    | 1986 |
| DR5    | 1714   | 5318 |
| FAS    | 21590  | 7571 |
| MICA/B | 2129   | 1171 |

**Supplementary Table 2.** Mean fluorescence intensity of the selected inhibitory/immune checkpoint ligands on HCC cell lines. Data are representatives of at least 3 independent experiments.

| MFI     | SNU398 | Huh7  |
|---------|--------|-------|
| CD274   | 6465   | 15903 |
| CD80    | 9265   | 23236 |
| CD86    | 3526   | 9915  |
| HLA-E   | 3450   | 8236  |
| HLA-ABC | 2102   | 4885  |

**Supplementary Table 3.** Expression of NK cell receptors on CD56<sup>bright</sup> and CD56<sup>dim</sup> PB NK n=3. Means±SEM are showed.

| %             | CD3-CD56 <sup>bright</sup> CD16- | CD3-CD56 <sup>dim</sup> CD16+ | Fold (CD56 <sup>dim</sup> /CD56 <sup>bright</sup> ) |
|---------------|----------------------------------|-------------------------------|---|
| NKG2D         | 98.46±1.24                       | 94.33±1.28                    | 0.95  |
| CD253 (TRAIL) | 60.46±2.59                       | 21.5±0.79                     | 0.35  |
| CD178 (FASL)  | 62.23±4.82                       | 56.33±2.08                    | 0.9   |
| CD279 (PD1)   | 7.57±2.55                        | 12.81±2.93                    | 1.69  |
| CD152 (CTLA4) | 0                                | 1.01±0.08                     |   |
| MFI           | CD3-CD56 <sup>bright</sup> CD16- | CD3-CD56 <sup>dim</sup> CD16+ | Fold (CD56 <sup>dim</sup> /CD56 <sup>bright</sup> ) |
| NKG2D         | 38161.33±3467.71                 | 19641.67±1106.89              | 0.51  |
| CD253 (TRAIL) | 6194±337.03                      | 3541.33±242.6                 | 0.57  |
| CD178 (FASL)  | 5992±271.33                      | 5574±52.16                    | 0.93  |
| CD279 (PD1)   | 1264±44.23                       | 1522.66±32.21                 | 1.2   |
| CD152 (CTLA4) | 1523±200.15                      | 1790.33±75.18                 | 1.17  |

**Supplementary Table 4.** Transcriptomic analysis of CD56<sup>bright</sup> CD16<sup>-</sup> and CD56<sup>dim</sup> CD16<sup>+</sup> HI NK cells.

► LP\_CD16\_minus vs. LP\_CD16\_plus

| Gene Name | Accession # | Class Name | LP_CD16_minus vs.<br>LP_CD16_plus |
|-----------|-------------|------------|-----------------------------------|
| AHR       | NM_001621.3 | Endogenous | 10.03                             |
| AICDA     | NM_020661.1 | Endogenous | -6.65                             |
| AIRE      | NM_000383.2 | Endogenous | -4.60                             |
| APP       | NM_000484.3 | Endogenous | 2.08                              |
| ARG1      | NM_000045.2 | Endogenous | -5.40                             |
| ARG2      | NM_001172.3 | Endogenous | -3.99                             |
| ATM       | NM_000051.3 | Endogenous | -2.03                             |
| B3GAT1    | NM_018644.3 | Endogenous | -13.73                            |
| BATF      | NM_006399.3 | Endogenous | -2.95                             |
| BCL2      | NM_000657.2 | Endogenous | -3.26                             |
| BCL2L11   | NM_138621.4 | Endogenous | 2.53                              |
| BLNK      | NM_013314.2 | Endogenous | 3.09                              |
| BST1      | NM_004334.2 | Endogenous | 3.82                              |
| BST2      | NM_004335.2 | Endogenous | 3.14                              |
| BTLA      | NM_181780.2 | Endogenous | 6.38                              |
| C1QA      | NM_015991.2 | Endogenous | -7.91                             |
| C1QB      | NM_000491.3 | Endogenous | -5.05                             |
| C1S       | NM_001734.2 | Endogenous | -9.31                             |
| C4A/B     | NM_007293.2 | Endogenous | -7.27                             |
| C6        | NM_000065.2 | Endogenous | -8.19                             |
| C8B       | NM_000066.2 | Endogenous | -5.46                             |
| C8G       | NM_000606.2 | Endogenous | -6.71                             |
| C9        | NM_001737.3 | Endogenous | -5.80                             |
| CAMP      | NM_004345.3 | Endogenous | -3.06                             |
| CARD9     | NM_052813.4 | Endogenous | -5.49                             |
| CASP10    | NM_032977.3 | Endogenous | -3.17                             |
| CASP8     | NM_001228.4 | Endogenous | -2.41                             |
| CCBP2     | NM_001296.3 | Endogenous | -3.76                             |
| CCL11     | NM_002986.2 | Endogenous | -6.52                             |
| CCL13     | NM_005408.2 | Endogenous | -14.35                            |
| CCL15     | NM_032965.3 | Endogenous | -3.57                             |
| CCL16     | NM_004590.2 | Endogenous | -4.68                             |
| CCL18     | NM_002988.2 | Endogenous | -9.50                             |
| CCL20     | NM_004591.1 | Endogenous | 4.17                              |
| CCL22     | NM_002990.3 | Endogenous | -3.76                             |
| CCL23     | NM_145898.1 | Endogenous | -3.24                             |

|         |                |            |         |
|---------|----------------|------------|---------|
| CCL24   | NM_002991.2    | Endogenous | -4.72   |
| CCL26   | NM_006072.4    | Endogenous | -2.61   |
| CCL7    | NM_006273.2    | Endogenous | -6.65   |
| CCL8    | NM_005623.2    | Endogenous | -5.96   |
| CCR10   | NM_016602.2    | Endogenous | -6.91   |
| CCR5    | NM_000579.1    | Endogenous | 6.01    |
| CCR8    | NM_005201.2    | Endogenous | -3.76   |
| CCRL1   | NM_016557.2    | Endogenous | -14.27  |
| CD160   | NM_007053.2    | Endogenous | 4.51    |
| CD19    | NM_001770.4    | Endogenous | 3.49    |
| CD22    | NM_001771.2    | Endogenous | 38.93   |
| CD247   | NM_198053.1    | Endogenous | -2.05   |
| CD27    | NM_001242.4    | Endogenous | 9.22    |
| CD274   | NM_014143.3    | Endogenous | -3.05   |
| CD276   | NM_001024736.1 | Endogenous | -3.09   |
| CD34    | NM_001025109.1 | Endogenous | -3.76   |
| CD36    | NM_001001548.2 | Endogenous | 2.49    |
| CD3D    | NM_000732.4    | Endogenous | -2.92   |
| CD3EAP  | NM_012099.1    | Endogenous | -2.38   |
| CD4     | NM_000616.4    | Endogenous | 2.99    |
| CD40LG  | NM_000074.2    | Endogenous | 2.93    |
| CD45R0  | NM_080921.3    | Endogenous | 6.39    |
| CD55    | NM_000574.3    | Endogenous | -2.22   |
| CD70    | NM_001252.2    | Endogenous | -3.76   |
| CD74    | NM_001025159.1 | Endogenous | 2.21    |
| CD79A   | NM_001783.3    | Endogenous | 8.21    |
| CD80    | NM_005191.3    | Endogenous | -5.36   |
| CD83    | NM_004233.3    | Endogenous | 3.43    |
| CD8A    | NM_001768.5    | Endogenous | -8.13   |
| CD8B    | NM_004931.3    | Endogenous | -5.44   |
| CD9     | NM_001769.2    | Endogenous | -2.93   |
| CDH5    | NM_001795.3    | Endogenous | -3.76   |
| CEACAM1 | NM_001712.3    | Endogenous | -2.10   |
| CEACAM6 | NM_002483.4    | Endogenous | -2.86   |
| CEACAM8 | NM_001816.3    | Endogenous | -8.45   |
| CEBPB   | NM_005194.2    | Endogenous | -2.87   |
| CFB     | NM_001710.5    | Endogenous | -2.17   |
| CFP     | NM_002621.2    | Endogenous | 2.04    |
| CISH    | NM_145071.2    | Endogenous | -17.11  |
| CLEC4E  | NM_014358.2    | Endogenous | 4.29    |
| CLU     | NM_001831.2    | Endogenous | -3.72   |
| CMKLR1  | NM_004072.1    | Endogenous | -210.96 |

|           |                |            |         |
|-----------|----------------|------------|---------|
| CSF1      | NM_000757.4    | Endogenous | -7.17   |
| CSF1R     | NM_005211.2    | Endogenous | -3.24   |
| CSF3R     | NM_156038.2    | Endogenous | 2.06    |
| CTLA4-TM  | NM_005214.3    | Endogenous | -14.90  |
| CTLA4_all | NM_005214.3    | Endogenous | -9.50   |
| CTSG      | NM_001911.2    | Endogenous | -6.64   |
| CUL9      | NM_015089.2    | Endogenous | -2.06   |
| CX3CL1    | NM_002996.3    | Endogenous | -2.33   |
| CX3CR1    | NM_001337.3    | Endogenous | -118.55 |
| CXCL13    | NM_006419.2    | Endogenous | -3.99   |
| CXCR1     | NM_000634.2    | Endogenous | -46.00  |
| CXCR2     | NM_001557.2    | Endogenous | -41.65  |
| CXCR6     | NM_006564.1    | Endogenous | 12.40   |
| DEFB1     | NM_005218.3    | Endogenous | -9.31   |
| DEFB103A  | NM_001081551.2 | Endogenous | -6.43   |
| DEFB103B  | NM_018661.3    | Endogenous | -7.05   |
| DEFB4A    | NM_004942.2    | Endogenous | -14.43  |
| EDNRB     | NM_003991.2    | Endogenous | -5.80   |
| EGR2      | NM_000399.3    | Endogenous | -2.10   |
| FADD      | NM_003824.2    | Endogenous | -5.92   |
| FCAR      | NM_133280.1    | Endogenous | -8.35   |
| FCER1A    | NM_002001.2    | Endogenous | 3.16    |
| FCGR2A/C  | NM_201563.4    | Endogenous | -2.36   |
| FCGR3A/B  | NM_000570.4    | Endogenous | -403.97 |
| FCGRT     | NM_004107.4    | Endogenous | 2.93    |
| FN1       | NM_212482.1    | Endogenous | -3.76   |
| FOXP3     | NM_014009.3    | Endogenous | -2.30   |
| GBP1      | NM_002053.1    | Endogenous | -5.09   |
| GNLY      | NM_006433.2    | Endogenous | -15.94  |
| GPR183    | NM_004951.3    | Endogenous | 3.55    |
| GZMB      | NM_004131.3    | Endogenous | -43.11  |
| GZMK      | NM_002104.2    | Endogenous | 10.37   |
| HAMP      | NM_021175.2    | Endogenous | -3.99   |
| HAVCR2    | NM_032782.3    | Endogenous | -6.28   |
| HFE       | NM_139011.2    | Endogenous | -5.80   |
| HLA-DMB   | NM_002118.3    | Endogenous | 2.44    |
| HLA-DQA1  | NM_002122.3    | Endogenous | -2.63   |
| HLA-DQB1  | NM_002123.3    | Endogenous | -2.99   |
| HLA-DRA   | NM_019111.3    | Endogenous | 3.80    |
| ICAM2     | NM_000873.3    | Endogenous | -2.02   |
| ICAM4     | NM_001039132.1 | Endogenous | -3.54   |
| ICAM5     | NM_003259.3    | Endogenous | -3.76   |

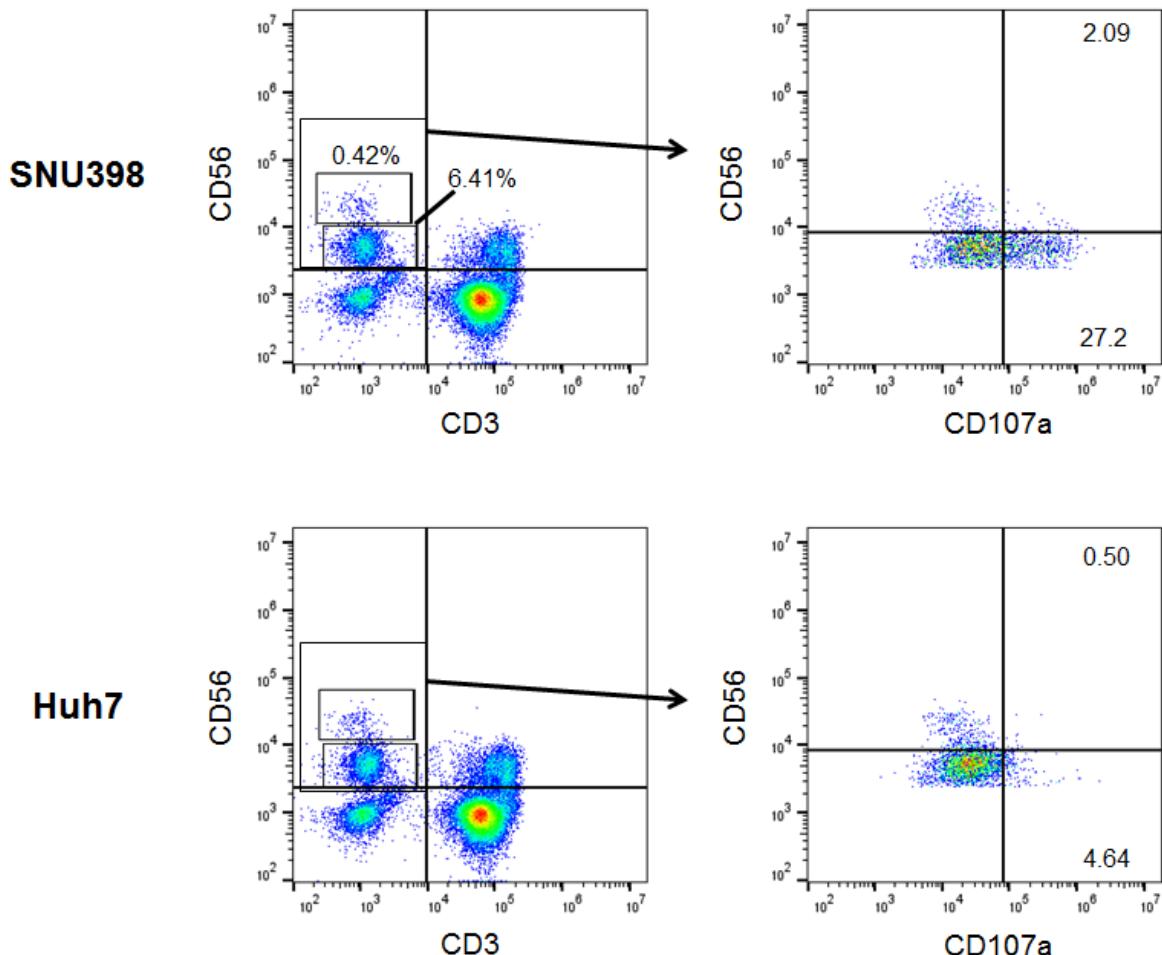
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|----------|----------------|------------|--------|
| ICOS     | NM_012092.2    | Endogenous | -3.17  |
| IDO1     | NM_002164.3    | Endogenous | 4.27   |
| IFIT2    | NM_001547.4    | Endogenous | -2.81  |
| IFNA1/13 | NM_024013.1    | Endogenous | -5.49  |
| IFNA2    | NM_000605.3    | Endogenous | -7.50  |
| IFNB1    | NM_002176.2    | Endogenous | -7.20  |
| IGF2R    | NM_000876.1    | Endogenous | -2.68  |
| IKBKB    | NM_001556.1    | Endogenous | -2.97  |
| IKBKE    | NM_014002.2    | Endogenous | -3.37  |
| IKZF1    | NM_006060.3    | Endogenous | -2.13  |
| IL10     | NM_000572.2    | Endogenous | -3.08  |
| IL10RA   | NM_001558.2    | Endogenous | -2.12  |
| IL12A    | NM_000882.2    | Endogenous | -2.73  |
| IL12B    | NM_002187.2    | Endogenous | -3.12  |
| IL12RB1  | NM_005535.1    | Endogenous | -4.01  |
| IL13     | NM_002188.2    | Endogenous | -17.53 |
| IL13RA1  | NM_001560.2    | Endogenous | 4.91   |
| IL17A    | NM_002190.2    | Endogenous | -4.25  |
| IL17B    | NM_014443.2    | Endogenous | -4.09  |
| IL17F    | NM_052872.3    | Endogenous | -12.21 |
| IL19     | NM_013371.3    | Endogenous | -3.76  |
| IL1B     | NM_000576.2    | Endogenous | 3.07   |
| IL1RAP   | NM_002182.2    | Endogenous | -2.16  |
| IL1RL2   | NM_003854.2    | Endogenous | -8.77  |
| IL1RN    | NM_000577.3    | Endogenous | 3.24   |
| IL2      | NM_000586.2    | Endogenous | -3.76  |
| IL20     | NM_018724.3    | Endogenous | -11.97 |
| IL21     | NM_021803.2    | Endogenous | -5.80  |
| IL21R    | NM_021798.2    | Endogenous | -6.21  |
| IL22     | NM_020525.4    | Endogenous | -8.17  |
| IL22RA2  | NM_181310.1    | Endogenous | -3.17  |
| IL23A    | NM_016584.2    | Endogenous | -4.71  |
| IL23R    | NM_144701.2    | Endogenous | 7.19   |
| IL26     | NM_018402.1    | Endogenous | -2.93  |
| IL27     | NM_145659.3    | Endogenous | -3.17  |
| IL28A    | NM_172138.1    | Endogenous | -33.40 |
| IL28A/B  | NM_172139.2    | Endogenous | -4.07  |
| IL29     | NM_172140.1    | Endogenous | -4.99  |
| IL2RA    | NM_000417.1    | Endogenous | 5.60   |
| IL2RB    | NM_000878.2    | Endogenous | 2.36   |
| IL3      | NM_000588.3    | Endogenous | -4.07  |
| IL32     | NM_001012633.1 | Endogenous | -2.04  |

|                           |                |            |         |
|---------------------------|----------------|------------|---------|
| IL4                       | NM_000589.2    | Endogenous | -10.22  |
| IL5                       | NM_000879.2    | Endogenous | -3.76   |
| IL7                       | NM_000880.2    | Endogenous | -2.33   |
| IL8                       | NM_000584.2    | Endogenous | 2.52    |
| IL9                       | NM_000590.1    | Endogenous | -3.76   |
| IRAK3                     | NM_007199.1    | Endogenous | -2.18   |
| IRF5                      | NM_002200.3    | Endogenous | 5.06    |
| IRF8                      | NM_002163.2    | Endogenous | 4.60    |
| ITGA2B                    | NM_000419.3    | Endogenous | -6.12   |
| ITGA5                     | NM_002205.2    | Endogenous | -10.13  |
| ITGAX                     | NM_000887.3    | Endogenous | -2.97   |
| ITLN2                     | NM_080878.2    | Endogenous | -2.30   |
| KCNJ2                     | NM_000891.2    | Endogenous | -7.12   |
| KIR3DL1                   | NM_013289.2    | Endogenous | -16.02  |
| KIR3DL2                   | NM_006737.2    | Endogenous | -6.73   |
| KIR3DL3                   | NM_153443.3    | Endogenous | -6.91   |
| KIR_Activating_Subgroup_1 | NM_001083539.1 | Endogenous | -24.81  |
| KIR_Activating_Subgroup_2 | NM_014512.1    | Endogenous | -115.33 |
| KIR_Inhibiting_Subgroup_1 | NM_014218.2    | Endogenous | -13.66  |
| KIR_Inhibiting_Subgroup_2 | NM_014511.3    | Endogenous | -14.38  |
| KLRAP1                    | NR_028045.1    | Endogenous | -19.97  |
| KLRC1                     | NM_002259.3    | Endogenous | 2.55    |
| KLRC3                     | NM_007333.2    | Endogenous | -2.20   |
| KLRC4                     | NM_013431.2    | Endogenous | -2.53   |
| KLRG1                     | NM_005810.3    | Endogenous | -12.14  |
| KLRG2                     | NM_198508.2    | Endogenous | -2.17   |
| LAG3                      | NM_002286.5    | Endogenous | -6.90   |
| LAIR1                     | NM_002287.3    | Endogenous | -2.61   |
| LAMP3                     | NM_014398.3    | Endogenous | -2.27   |
| LCK                       | NM_005356.2    | Endogenous | -2.54   |
| LIF                       | NM_002309.3    | Endogenous | 3.01    |
| LILRA1                    | NM_006863.1    | Endogenous | -2.68   |
| LILRA3                    | NM_006865.3    | Endogenous | -3.76   |
| LILRB1                    | NM_001081637.1 | Endogenous | -8.00   |
| LILRB2                    | NM_005874.1    | Endogenous | -5.58   |
| LILRB5                    | NM_001081442.1 | Endogenous | -3.76   |
| LITAF                     | NM_004862.3    | Endogenous | -2.47   |
| LTBR                      | NM_002342.1    | Endogenous | 4.22    |
| LTf                       | NM_002343.2    | Endogenous | -6.25   |
| MAF                       | NM_005360.4    | Endogenous | -6.37   |
| MAP4K2                    | NM_004579.2    | Endogenous | -2.38   |
| MAPK11                    | NM_002751.5    | Endogenous | -5.26   |

|          |                |            |         |
|----------|----------------|------------|---------|
| MARCO    | NM_006770.3    | Endogenous | -5.31   |
| MASP1    | NM_139125.3    | Endogenous | -3.47   |
| MASP2    | NM_139208.1    | Endogenous | -5.80   |
| MBL2     | NM_000242.2    | Endogenous | -2.30   |
| MME      | NM_000902.2    | Endogenous | -7.64   |
| MR1      | NM_001531.2    | Endogenous | 4.21    |
| MRC1     | NM_002438.2    | Endogenous | -2.08   |
| MS4A1    | NM_152866.2    | Endogenous | 26.64   |
| MSR1     | NM_002445.3    | Endogenous | -2.44   |
| MUC1     | NM_001018017.1 | Endogenous | -3.76   |
| NCF4     | NM_000631.4    | Endogenous | 9.53    |
| NFATC2   | NM_012340.3    | Endogenous | -2.49   |
| NFATC3   | NM_004555.2    | Endogenous | -2.21   |
| NFKBIA   | NM_020529.1    | Endogenous | 2.31    |
| NOS2     | NM_000625.4    | Endogenous | -6.37   |
| NOTCH1   | NM_017617.3    | Endogenous | -2.05   |
| NT5E     | NM_002526.2    | Endogenous | 3.24    |
| PAX5     | NM_016734.1    | Endogenous | 5.38    |
| PDCD1    | NM_005018.1    | Endogenous | -8.72   |
| PDCD1LG2 | NM_025239.3    | Endogenous | -3.25   |
| PDGFB    | NM_033016.2    | Endogenous | -4.52   |
| PDGFRB   | NM_002609.3    | Endogenous | -136.33 |
| PECAM1   | NM_000442.3    | Endogenous | 2.06    |
| PIGR     | NM_002644.2    | Endogenous | -15.88  |
| PLA2G2A  | NM_000300.2    | Endogenous | -7.87   |
| PLA2G2E  | NM_014589.1    | Endogenous | -23.29  |
| PLAU     | NM_002658.2    | Endogenous | -3.17   |
| POU2F2   | NM_002698.2    | Endogenous | -2.17   |
| PPBP     | NM_002704.2    | Endogenous | -5.88   |
| PRDM1    | NM_001198.3    | Endogenous | -2.41   |
| PRF1     | NM_005041.3    | Endogenous | -4.60   |
| PRKCD    | NM_006254.3    | Endogenous | 2.29    |
| PTAFR    | NM_000952.3    | Endogenous | -3.15   |
| PTGS2    | NM_000963.1    | Endogenous | 8.06    |
| PTK2     | NM_005607.3    | Endogenous | 6.23    |
| RAG1     | NM_000448.2    | Endogenous | -4.86   |
| RAG2     | NM_000536.3    | Endogenous | -2.17   |
| RELB     | NM_006509.2    | Endogenous | 6.66    |
| RORC     | NM_001001523.1 | Endogenous | 2.83    |
| S100A8   | NM_002964.3    | Endogenous | 3.69    |
| S100A9   | NM_002965.2    | Endogenous | 3.40    |
| S1PR1    | NM_001400.3    | Endogenous | -6.16   |

|           |                |              |        |
|-----------|----------------|--------------|--------|
| SELE      | NM_000450.2    | Endogenous   | -6.91  |
| SELPLG    | NM_003006.3    | Endogenous   | -19.67 |
| SH2D1A    | NM_001114937.2 | Endogenous   | 2.00   |
| SKI       | NM_003036.2    | Endogenous   | -3.04  |
| SLC2A1    | NM_006516.2    | Endogenous   | -2.66  |
| SOCS3     | NM_003955.3    | Endogenous   | 3.08   |
| STAT3     | NM_139276.2    | Endogenous   | -2.03  |
| STAT5A    | NM_003152.2    | Endogenous   | 2.48   |
| SYK       | NM_003177.3    | Endogenous   | 2.43   |
| TAL1      | NM_003189.2    | Endogenous   | -10.08 |
| TBX21     | NM_013351.1    | Endogenous   | -5.19  |
| TCF7      | NM_003202.2    | Endogenous   | 12.31  |
| TGFBI     | NM_000358.2    | Endogenous   | 3.46   |
| THY1      | NM_006288.2    | Endogenous   | -3.76  |
| TIRAP     | NM_148910.2    | Endogenous   | -2.93  |
| TLR3      | NM_003265.2    | Endogenous   | -10.39 |
| TLR7      | NM_016562.3    | Endogenous   | -4.86  |
| TLR9      | NM_017442.2    | Endogenous   | -4.18  |
| TMEM173   | NM_198282.1    | Endogenous   | -2.86  |
| TNFAIP6   | NM_007115.2    | Endogenous   | -2.41  |
| TNFRSF11A | NM_003839.2    | Endogenous   | -2.67  |
| TNFRSF13C | NM_052945.3    | Endogenous   | 9.45   |
| TNFRSF1B  | NM_001066.2    | Endogenous   | -3.87  |
| TNFRSF4   | NM_003327.2    | Endogenous   | -5.80  |
| TNFRSF8   | NM_152942.2    | Endogenous   | -15.70 |
| TNFRSF9   | NM_001561.4    | Endogenous   | -6.79  |
| TNFSF15   | NM_001204344.1 | Endogenous   | -3.24  |
| TNFSF4    | NM_003326.2    | Endogenous   | -2.39  |
| TNFSF8    | NM_001244.3    | Endogenous   | 3.96   |
| VCAM1     | NM_001078.3    | Endogenous   | -11.07 |
| VTN       | NM_000638.3    | Endogenous   | -13.22 |
| XCL1      | NM_002995.1    | Endogenous   | 2.49   |
| XCR1      | NM_005283.2    | Endogenous   | -5.71  |
| ZAP70     | NM_001079.3    | Endogenous   | -2.24  |
| GUSB      | NM_000181.1    | Housekeeping | 2.48   |

**Supplementary Figure 1.** Cytotoxicity of PB NK cells against SNU398 and Huh7 cells. CD107a assay was performed with whole PBMC. Representative plots are displayed from 3 independent experiments.



**Supplementary Figure 2.** Expression of NK cell receptors on CD56<sup>bright</sup> and CD56<sup>dim</sup> PB NK. Representative plots are displayed from 3 independent experiments.

