

**Supplemental Digital Content 4: List of 32 genes that were significantly modulated in the IFN-NPE g**

| N  | Column ID   | Gene Title                                                                       | Gene Symbol       | p-value(Post - Pre) | Mean(Post - Pre) |
|----|-------------|----------------------------------------------------------------------------------|-------------------|---------------------|------------------|
| 1  | 214096_s_at | serine hydroxymethyltransferase 2 (mitochondrial)                                | SHMT2             | 0.022412            | -0.815566        |
| 2  | 211600_at   | ---                                                                              | ---               | 0.0171696           | -0.7872          |
| 3  | 203528_at   | sema domain, immunoglobulin domain (Ig),                                         | SEMA4D            | 0.0480238           | -0.706915        |
| 4  | 204790_at   | transmembrane domain (TM) and short cyt                                          | SMAD7             | 0.0341973           | -0.654189        |
| 5  | 211938_at   | SMAD family member 7                                                             | EIF4B             | 0.0461615           | -0.638641        |
| 6  | 202531_at   | eukaryotic translation initiation factor 4B                                      | IRF1              | 0.0401415           | -0.615464        |
| 7  | 201258_at   | interferon regulatory factor 1                                                   | RPS16             | 0.0307914           | -0.600543        |
| 8  | 203932_at   | ribosomal protein S16                                                            | HLA-DMB           | 0.0105515           | -0.586979        |
| 1  | 218532_s_at | major histocompatibility complex, class II, DM beta                              | FAM134B           | 0.0444694           | 0.656115         |
| 2  | 40850_at    | family with sequence similarity 134, member B                                    | FKBP8             | 0.0477742           | 0.681949         |
| 3  | 219062_s_at | FK506 binding protein 8, 38kDa                                                   | ZCCHC2            | 0.0480677           | 0.687447         |
| 4  | 201200_at   | zinc finger, CCHC domain containing 2                                            | CREG1             | 0.0383863           | 0.743304         |
| 5  | 204131_s_at | cellular repressor of E1A-stimulated genes 1                                     | FOXO3             | 0.048239            | 0.811879         |
| 6  | 202430_s_at | forkhead box O3                                                                  | PLSCR1            | 0.0179102           | 0.829336         |
| 7  | 202219_at   | phospholipid scramblase 1                                                        | SLC6A8            | 0.0217041           | 0.854514         |
| 8  | 206111_at   | solute carrier family 6 (neurotransmitter transporter, creatine), member 8       | RNASE2            | 0.0398159           | 0.944701         |
| 9  | 205249_at   | ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)           | EGR2              | 0.00365222          | 0.952913         |
| 10 | 211781_x_at | early growth response 2 (Krox-20 homolog, Drosophila)                            | ---               | 0.0294425           | 1.12967          |
| 11 | 205114_s_at | ---                                                                              | CCL3L3 /// LOC721 | 0.0179768           | 1.13633          |
| 12 | 221479_s_at | chemokine (C-C motif) ligand 3 /// chemokine (C-C motif) ligand 3-like 1 /// che | BNIP3L            | 0.0179451           | 1.27999          |
| 13 | 200923_at   | BCL2/adenovirus E1B 19kDa interacting protein 3-like                             | LGALS3BP          | 0.0424356           | 1.30272          |
| 14 | 205098_at   | lectin, galactoside-binding, soluble, 3 binding protein                          | CCR1              | 0.0173904           | 1.38954          |
| 15 | 219672_at   | chemokine (C-C motif) receptor 1                                                 | ERAF              | 0.0450947           | 1.4213           |
| 16 | 214453_s_at | erythroid associated factor                                                      | IFI44             | 0.0496294           | 1.62154          |
| 17 | 205592_at   | interferon-induced protein 44                                                    | IL8               | 0.0447334           | 1.97291          |
| 18 | 205950_s_at | interleukin 8                                                                    | CA1               | 0.0284056           | 2.19653          |
| 19 | 211560_s_at | carbonic anhydrase I                                                             | ALAS2             | 0.0318233           | 2.66798          |
| 20 | 206834_at   | aminolevulinate, delta-, synthase 2 (sideroblastic/hypochromic anemia)           | HBD               | 0.0384924           | 2.81482          |
| 21 | 213515_x_at | hemoglobin, delta                                                                | HBG1 /// HBG2     | 0.0231641           | 3.75927          |
| 22 | 204419_x_at | hemoglobin, gamma A /// hemoglobin, gamma G                                      | HBG2              | 0.0244915           | 4.06612          |
| 23 | 204848_x_at | hemoglobin, gamma G                                                              | HBG1 /// HBG2     | 0.0211321           | 4.09043          |
| 24 | 202411_at   | hemoglobin, gamma A /// hemoglobin, gamma G                                      | IFI27             | 0.000143379         | 4.53823          |
|    |             | interferon, alpha-inducible protein 27                                           |                   |                     |                  |