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| --- | --- | --- |
|  | **CD39 (ENTPD-1)** | **CD73 (NT5E)** |
| **HUGO** | **R** | **p** | **R** | **p** |
| B2M | 0.363 | 2.7x10-10 | 0.286 | 9.1x10-07 |
| CD4 | 0.538 | 9.4x10-23 | 0.299 | 2.7x10-07 |
| CD74 | 0.435 | 1.3x10-14 | 0.415 | 2.5x10-13 |
| CD8A | 0.495 | 4.9x10-19 | 0.275 | 2.5x10-06 |
| CD8B | 0.365 | 2.0x10-10 | 0.138 | 0.02 |
| CIITA | 0.282 | 1.3x10-06 | 0.259 | 9.6x10-06 |
| CTSB | 0.456 | 5.0x10-16 | 0.405 | 1.2x10-12 |
| CTSS | 0.564 | 2.7x10-25 | 0.343 | 2.7x10-09 |
| HLA-A | 0.399 | 2.7x10-12 | 0.266 | 5.1x10-06 |
| HLA-B | 0.403 | 1.4x10-12 | 0.329 | 1.3x10-08 |
| HLA-C | 0.393 | 6.1x10-12 | 0.280 | 1.6x10-06 |
| HLA-DMA | 0.437 | 1.0x10-14 | 0.360 | 3.7x10-10 |
| HLA-DMB | 0.475 | 1.8x10-17 | 0.205 | 4.9x10-04 |
| HLA-DOA | 0.361 | 3.5x10-10 | 0.343 | 2.7x10-09 |
| HLA-DOB | 0.315 | 5.3x10-08 | 0.123 | 0.04 |
| HLA-DPA1 | 0.457 | 4.4x10-16 | 0.446 | 2.5x10-15 |
| HLA-DPB1 | 0.509 | 3.3x10-20 | 0.399 | 2.6x10-12 |
| HLA-DQA1 | 0.182 | 2.1x10-03 | 0.048 | 0.42 |
| HLA-DQB1 | 0.475 | 1.9x10-17 | 0.421 | 1.1x10-13 |
| HLA-DRA | 0.485 | 3.1x10-18 | 0.402 | 1.8x10-12 |
| HLA-DRB1 | 0.452 | 9.3x10-16 | 0.437 | 1.0x10-14 |
| HLA-DRB4 | 0.182 | 2.0x10-03 | 0.228 | 1.1x10-04 |
| HLA-E | 0.455 | 5.3x10-16 | 0.311 | 8.2x10-08 |
| HLA-F | 0.453 | 7.9x10-16 | 0.260 | 8.7x10-06 |
| HLA-G | 0.413 | 3.4x10-13 | 0.243 | 3.4x10-05 |
| HSP90AA1 | -0.122 | 0.04 | 0.113 | 0.08 |
| HSP90AB1 | -0.219 | 2.0x10-04 | -0.167 | 4.7x10-03 |
| HSPA5  | 0.160 | 6.9x10-03 | 0.074 | 0.21 |
| HSPA6 | 0.462 | 1.8x10-16 | 0.306 | 1.3x10-07 |
| IFNG | 0.342 | 2.9x10-09 | 0.131 | 0.03 |
| KLRC3 | 0.259 | 9.4x10-06 | 0.208 | 4.2x10-04 |
| KLRC4 | 0.213 | 2.9x10-04 | 0.095 | 0.11 |
| KLRD1 | 0.422 | 1.0x10-13 | 0.245 | 2.8x10-05 |
| LGMN | 0.494 | 6.6x10-19 | 0.224 | 1.4x10-04 |
| NFYC TF | -0.213 | 2.9x10-04 | -0.212 | 3.1x10-04 |
| PSME1 | 0.134 | 0.02 | 0.154 | 9.3x10-03 |
| RFXAP TF | -0.132 | 0.03 | -0.131 | 0.03 |
| TAP1 | 0.320 | 3.4x10-08 | 0.210 | 3.6x10-04 |
| TAP2 | 0.322 | 2.7x10-08 | 0.222 | 1.6x10-04 |
| TAPBP | 0.279 | 1.7x10-06 | 0.231 | 8.3x10-05 |
| TNF | 0.164 | 5.4x10-03 | 0.001 | 0.99 |

**Supplemental Table 2:** **Analysis of the antigen processing and presentation pathway and gene-wise correlation with the expression of CD39 (**ENTPD1) **and CD73 (NT5E).** Out of 57 genes linked to this pathway 42 genes show correlation with CD39 and 41 genes correlate with CD73.