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| **S3 Table****Differentially expressed genes under the top 3 immunology related pathways in Cluster 5, 6, and 8 annotated by GO analysis** |
| **Immune Response** |
| **Cluster** | ACTR3 | ANXA1 | APOBEC3G | BST2 | CCL5 | CD59 | CD74 | CST7 | FCGR3 | GAPDH | GNLY | HCST | ITK | KLRD1 | LAT2 | LCP2 |
| **5** | ✓ | ü | ü | ü | ü | ü | ü | ü | ü |  | ü | ü |  |  | ü |   |
| **6** | ✓ | ü | ü |  | ü |  | ü | ü |  | ü |  | ü | ü | ü |  | ü |
| **8** |   |   |   | ü |   | ü | ü |   |   |   |   | ü |   |   |   |   |
| **Cluster** | MAMU-A | MAMU-A3 | MAMU-B | MAMU-DPA | MAMU-DPB | MAMU-DRA | MAMU-DRB1 | MAPK1 | PTPN22 | PTPN6 | PYCARD | SAMHD1 | SH2D1A | TYROBP | ZAP70 | ZYX |
| **5** |  |  |  | ü |  | ü |  | ü | ü | ü | ü |  |  | ü |  | ü |
| **6** | ü | ü | ü | ü | ü | ü | ü |  |  |  |  |  | ü |  | ü | ü |
| **8** |   |   |   |   |   |   |   |   | ü |   |   | ü |   |   |   |   |
| **Regulation of Immune System Process** |
| **Cluster** | ANXA1 | BST2 | CCL5 | CD59 | CD74 | CXCR3 | FCGR3 | HCST | LAT2 | MAPK1 | PTPN22 | PTPN6 | PYCARD | SAMHD1 | TESC | TYROBP |
| **5** | ✓ | ü | ü | ü | ü |   | ü | ü | ü | ü | ü | ü | ü |   | ü | ü |
| **8** |   | ü |   | ü | ü | ü |   | ü |   |   | ü |   |   | ü |   | ü |
| **Regulation of Immune Response** |
| **Cluster** | ANXA1 | BST2 | CD59 | CD74 | FCGR3 | HCST | LAT2 | MAPK1 | PTPN22 | PTPN6 | PYCARD | SAMHD1 | TYROBP |  |  |  |
| **5** | ✓ | ü | ü | ü | ü | ü | ü | ü | ü | ü | ü |   |   |  |  |  |
| **8** |   | ü | ü | ü |   |   |   |   |   |   |   | ü | ü |  |  |  |
| ✓ represents differential gene expressed under the pathwayNo differentially expressed genes were annotated under "Regulation of Immune System Process" and "Regulation of Immune Response" for Cluster 6 |