| Cluster | Name                  | Top 20 genes of each cluster                                                                 |
|---------|-----------------------|-----------------------------------------------------------------------------------------------|
| 0       | MΦMHCII<sub>low</sub> | Serpinb2, F5, Alox15, Basp1, Gadd45a, Ccl6, Cd24a, Rlfnb, Ccl9, Tgm2, Irf2bp2, Cyp4f18, Vegfa, P2ry10, Arpc5, Plac8, Kctd12, Dnajb6, Thbs1, Itgam |
| 1       | Neutrophils-LCN2<sub>low</sub> | Il1r2, Ifitm1, Tnfap2, Nlpr3, Marcks1, Csf3r, Ccr2, Trem1, Clec4d, Clec4e, S100a8, Clec4n, S100a9, Il1b, Hdc, Resf1, Cd14, Acod1, C5ar1, Lrg1 |
| 2       | γδ-T                  | Il17a, Trdc, Cxcr6, Areg, Cd163i1, Tcrg-C1, Icos, Cd3g, Rora, Emb                             |
| 3       | Monocytes             | Apoe, Lyz2, Mcf2, Lgmn, Selenop, Ms4a6c, C1qa, F13a1, Chi3, Ctss, C1qb, Ctsc, Ifi207, Ifitm3, Ctsb, Mrcl, Ifi27l2a, Ccr2, Ly6c, C1qc, |
| 4       | MΦ                    | Cd209a, Tnip3, Cd74, H2-Ab1, H2-Eb1, H2-Aa, Gm26917, Mgl2, Ml1, Cd83, Ifi30, Mt2, Etv3, Clec10a, H2-DMb1, H2-DMa, Syngr2, Sdc4, Cnd1, Crip1 |
| 5       | ILC2                  | Il5, Gata3, Areg, Csf2, Rora, Lmo4, Ccl1, Nrip1, Furin, Itk, Il13, Il2ra, Inpp4b, Tmem64, Calca, Ctl2a2a, Arg1, Hs3st1, Uhrf2, Il7r |
| 6       | NK cells              | Gzma, Ccl5, AW112010, Nkg7, Irf8, Kira4, Il2rb, Prf1, Serpinb9, Kira8, Eomes, Gzmb, Uggc, Kire1, Serpinb6b, Sh2d2a, Spry2, Ms4a4b, Txk, Kira9 |
| 7       | CD4<sup>+</sup> T cells | Cd28, Icos, Trac, Ets1, Rora, S1pr1, Ctl4a, Thy1, Uhrf2, Il18r1, Trbc2, Ms4a4b, Ptpn22, Il7r, Trbc1, Emb, Tcl7, Lat, Ramp3, Cd3d |
| 8       | Neutrophils-LCN2<sub>high</sub> | S100a9, S100a8, Lcn2, Sfa2l1, Wfcd21, Slfn4, Cstdc4, Lrg1, Hp, Clec4d, Slpi, Csf3r, Trem1, Acod1, Cxcr2, Hdc, Msr1b, Grina, Isg15, Oasl2 |
| 9       | cDC2-Retnla<sub>high</sub> | Lpl, Retnla, Fn1, Lyz1, Fcrls, Ear2, Mt1, Ptp, Mt2, Lyz2, Cd74, Mgl2, H2-DMa, Crip1, H2-DMb1, H2-Ab1, Tnip3, Firt3, Sdc3, H2-Eb1 |
|   |   |   |
|---|---|---|
| 10 | CD8+ T cells | Ccl5, Xc1, Il2rb, Ms4a4b, Gimap4, Trbc2, Ctsw, Serpinb6b, Klr1, Nkg7, Gimap3, Ptpn22, Cd28, Ly6c2, AW112010, Kirk1, Ctl2a2a, Serpinb9, Txk, Ets1 |
| 11 | B cells | Igkc, Cd79a, Ebf1, Ighm, Ighd, Scd1, Ms4a1, Cd79b, Mef2c, Ly6d, Pax5, H2-Ob, Satb1, Ccr7, Fcmr, Fcer2a, Ralgps2, Cd19, Cd55, H2-DMb2 |
| 12 | cDC1 | Cst3, Naaa, Wdfy4, Ppt1, H2-Ab1, H2-Eb1, 44442, Rab7b, H2-Aa, Plbd1, H2afz, Ifi205, Tmsb10, Cd74, Naga, Irf8, Mpeg1, Trim35, Eef1b2, Atf1f1 |
| 13 | Proliferating cell | Stmn1, Tubb5, Ighm, Top2a, Pclaf, Tuba1b, Mki67, Ube2c, H2afz, Hmgb2, H2afv, Birc5, Hist1h2ap, Anp32b, Dek, Tmsb10, Hist1h1b, Crip1, Nucks1, Hmgb1 |
| 14 | Mast cells | Mcpt4, Cpa3, Cma1, Tpsb2, Mrgprb1, Jun, Serpinb1a, Kit, Eg1, Slc18a2, Gata2, Ccl2, Mrgprb2, Ube2v2, Cyp11a1, Tpsab1, Vwa5a, Fcer1a, Ccl7, Hs6st2 |
| 15 | Treg cells | Ctl4a, Tnfrsf4, Ikzf2, Il2ra, Icos, Hopx, Odc1, Cpm, Trac, Foxp3, Tnfrsf9, Rora, Cd2, Tnfrsf18, Cd28, Maf, Trp53inp1, Gata3, Ets1, Trbc2 |
| 16 | Naive CD4+ | Satb1, S1pr1, Dusp10, Lef1, Ccr7, Ms4a4b, Gimap3, Gramd3, Tcf7, Trbc2, Gimap6, Ablim1, Rpl12, Bcl2, Il7r, Ets1, Txk, Ms4a6b, Rps20, Trib2 |
| 17 | Migratory DC (mDC) | Ccr7, Ccl22, Fscn1, Tbc1d4, Fabp5, Apol7c, Il4i1, Clic4, Cxcl16, Ccl17, Clu, Tmem123, Ifi30, Serpinb9, Tspan3, Nrp2, Socs2, Ccl5, Cacnb3, Serpinb6b |
| 18 | Plasmacytoid DC (pDC) | Siglech, Tcf4, Bst2, Ccr9, Ly6d, Klk1, Irf8, Ly6c2, Spib, Atp1b1, Lair1, Cox6a2, Lrp8, Ctsl, Cyb561a3, Bcl11a, Rpl31, Runx2, Grn, Mpeg1 |