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| **Group** | **Name** | **Contrast** |
| **Population specific gene sets** | 10pop\_HSC | HSC1 - (MLP+CMP+GMP+MEP+B/NKprec+ProB+ETP)/7 |
| 10pop\_MLP | MLP - (HSC1+CMP+GMP+MEP+B/NKprec+ProB+ETP)/7 |
| 10pop\_CMP | CMP - (HSC1+MLP+GMP+MEP+B/NKprec+ProB+ETP)/7 |
| 10pop\_GMP | GMP - (HSC1+MLP+CMP+MEP+B/NKprec+ProB+ETP)/7 |
| 10pop\_MEP | MEP - (HSC1+MLP+CMP+GMP+B/NKprec+ProB+ETP)/7 |
| 10pop\_earlyB | B/NKprec - (HSC1+MLP+CMP+GMP+MEP+ProB+ETP)/7 |
| 10pop\_proB | ProB - (HSC1+MLP+CMP+GMP+MEP+B/NKprec+ETP)/7 |
| **Transcriptional programs gene sets** | Sign\_HSC\_MLP | (HSC1+ MLP)/2 - (CMP +GMP +MEP)/3 |
| Sign\_MLP\_GMP | (MLP + GMP)/2 - (HSC1 + CMP +MEP)/3 |
| Sign\_HSC\_MLP\_GMP | (HSC1+ MLP +GMP)/3 - (CMP +MEP)/2 |
| Sign\_CMP\_MEP | (CMP + MEP)/2 - (HSC1 + MLP +GMP)/3 |
| **Precursor-product transition gene sets** | HSC1toHSC2 | HSC2 - HSC1 |
| HSC1toMPP | MPP - HSC1 |
| HSC1toMLP | MLP - HSC1 |
| HSC1toCMP | CMP - HSC1 |
| MPPtoMLP | MLP - MPP |
| MPPtoCMP | CMP - MPP |
| MLPtoBNKprec | B/NKprec - MLP |
| MLPtoProB | ProB - MLP |
| MLPtoETP | ETP - MLP |
| BNKprectoProB | ProB - B/NKprec |
| CMPtoGMP | GMP - CMP |
| CMPtoMEP | MEP - CMP |
| MLPtoGMP | GMP - MLP |