



CD4



CD8



NK



Cycling

CD4.T.naive.centri.mem.1  
 CD4.T.naive.centri.mem.2  
 CD4.T.effector.memory  
 CD4.T.dysfunc.early  
 CD4.T.dysfunc.late.1  
 CD4.T.dysfunc.late.2  
 CD4.T.ISG  
 CD4.T.reg.1  
 CD4.T.reg.2  
 CD4.T.reg.3  
 CD4.T.reg.ISG  
 CD4.Th17.1  
 CD4.Th17.2  
 CD4.Th17.3

CD8.T.naive.centri.mem  
 CD8.T.effector.memory  
 CD8.T.cytotoxic  
 CD8.T.dysfunc.early  
 CD8.T.dysfunc.late  
 CD8.T.dysfunc.ISG  
 CD8.T.ISG.early  
 CD8.T.ISG.late

gd.T.cell

NK.cytotoxic.GZMH  
 NK.cytotoxic.SPON2.1  
 NK.cytotoxic.SPON2.2  
 NK.reg.IGFBP2  
 NK.reg.CD56  
 NK.reg.CCL3  
 NK.reg.KRT81.KRT86.1  
 NK.reg.KRT81.KRT86.2  
 NK.reg.ISG  
 NK.reg.CRTAM

Cycling.CD4.T  
 Cycling.CD8.T.1  
 Cycling.CD8.T.2  
 Cycling.CD8.T.3  
 Cycling.CD8.T.4  
 Cycling.NK.1  
 Cycling.NK.2  
 Cycling.NK.3



Naive  
 Predysfunctional  
 Cytotoxic  
 Dysfunctional

JAK.STAT  
 TGFb  
 TNFa

Mean  
 module  
 score



0.00.51.01.5

Mean  
 PROGENy  
 score



0 1 2 3