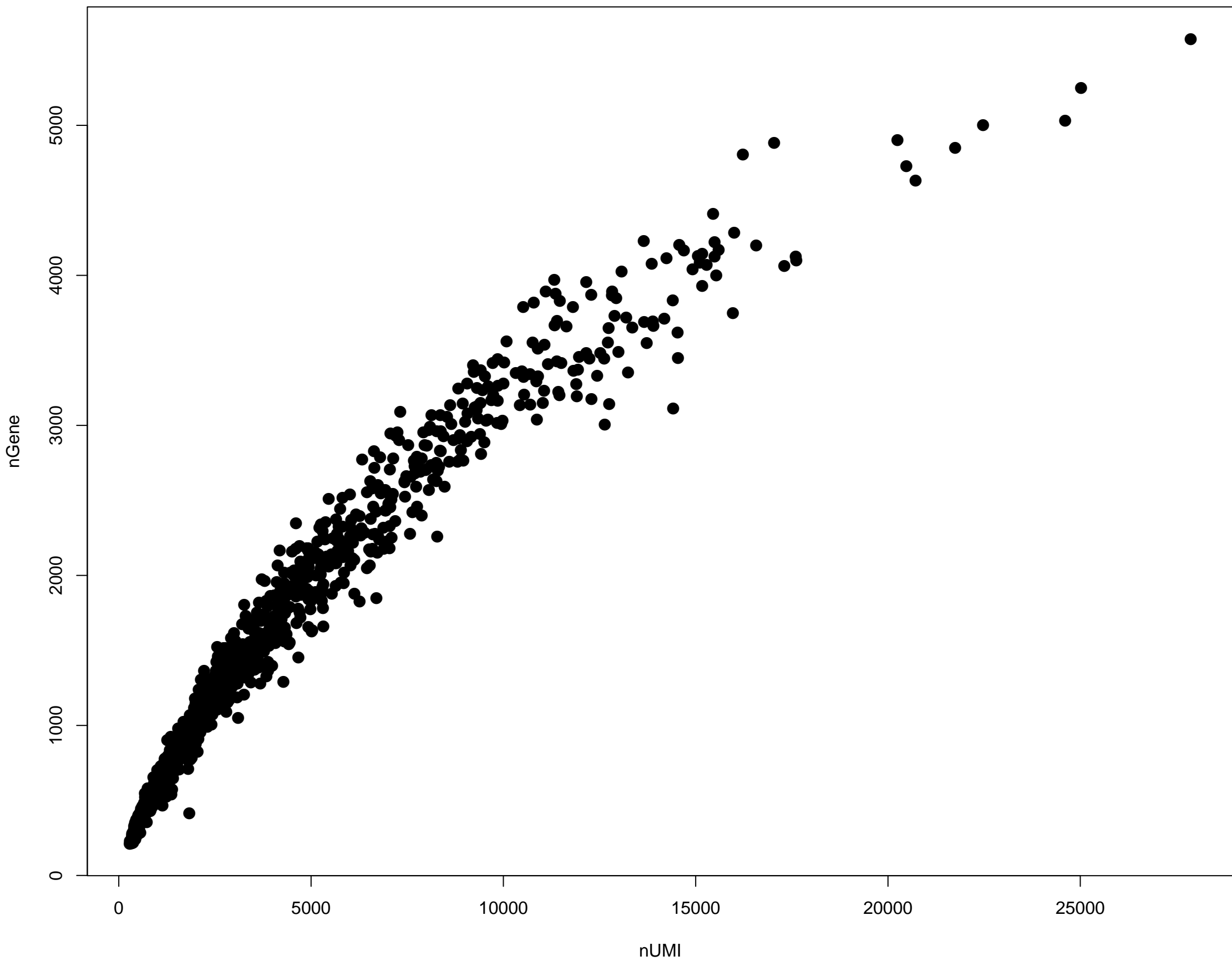
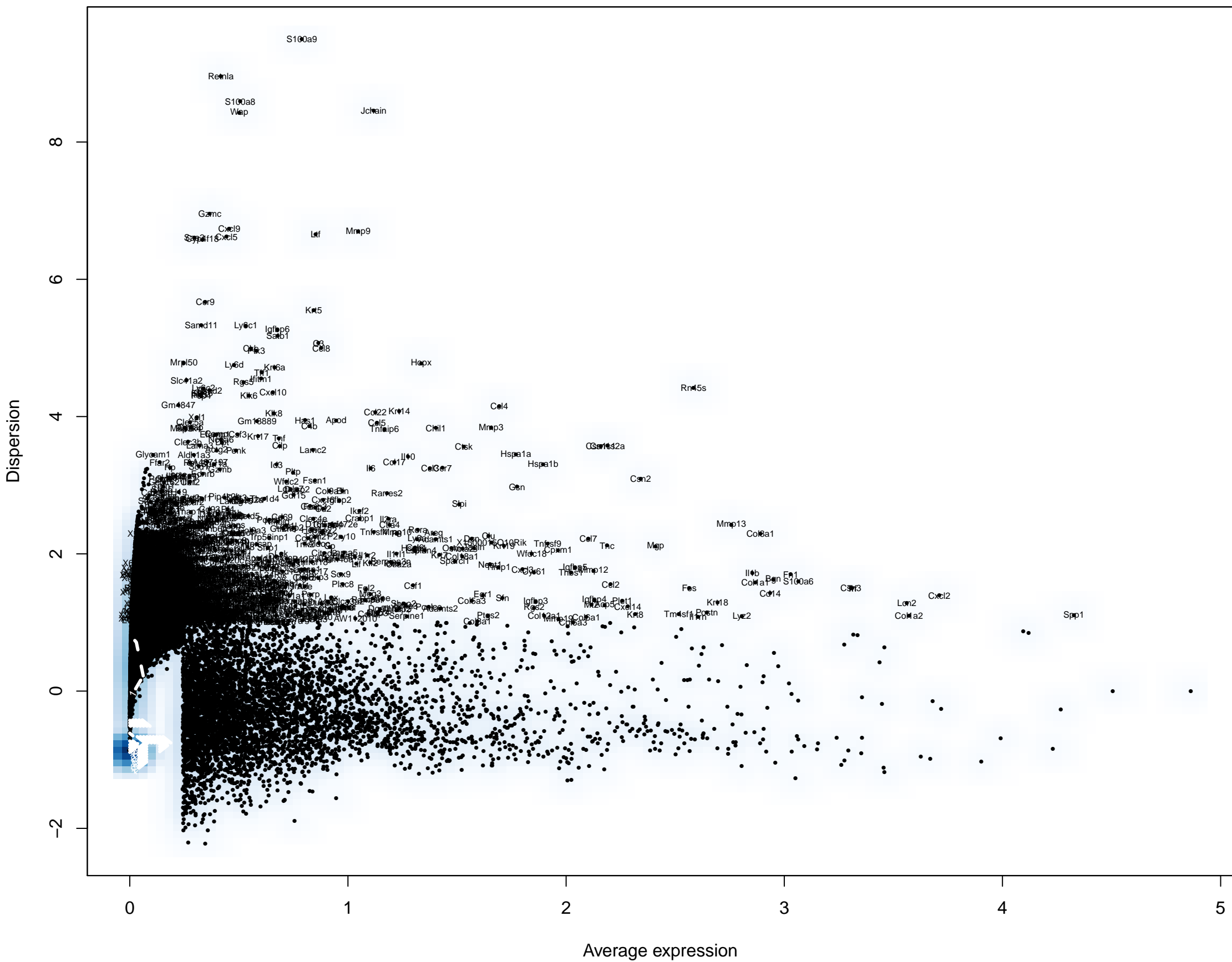
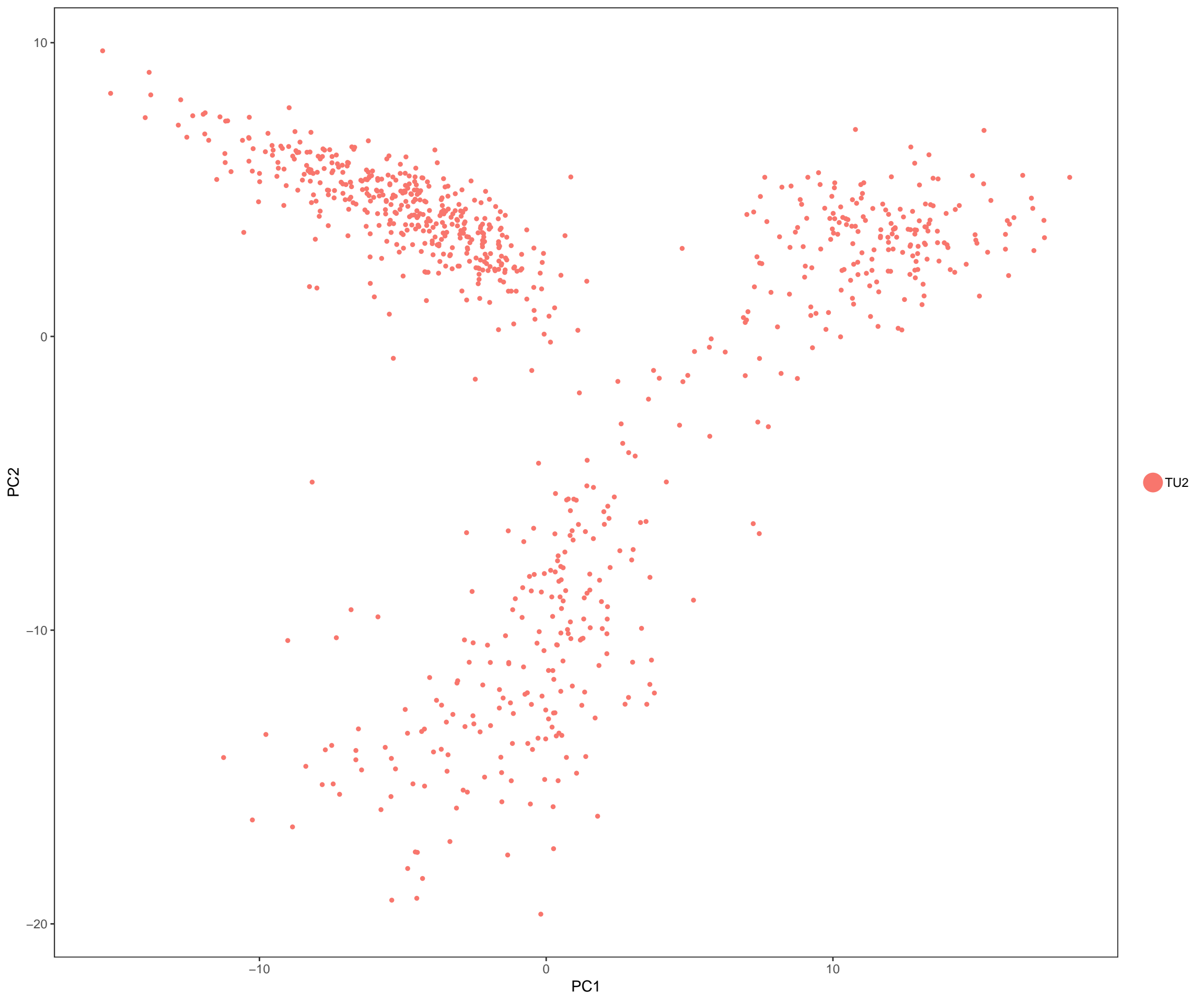
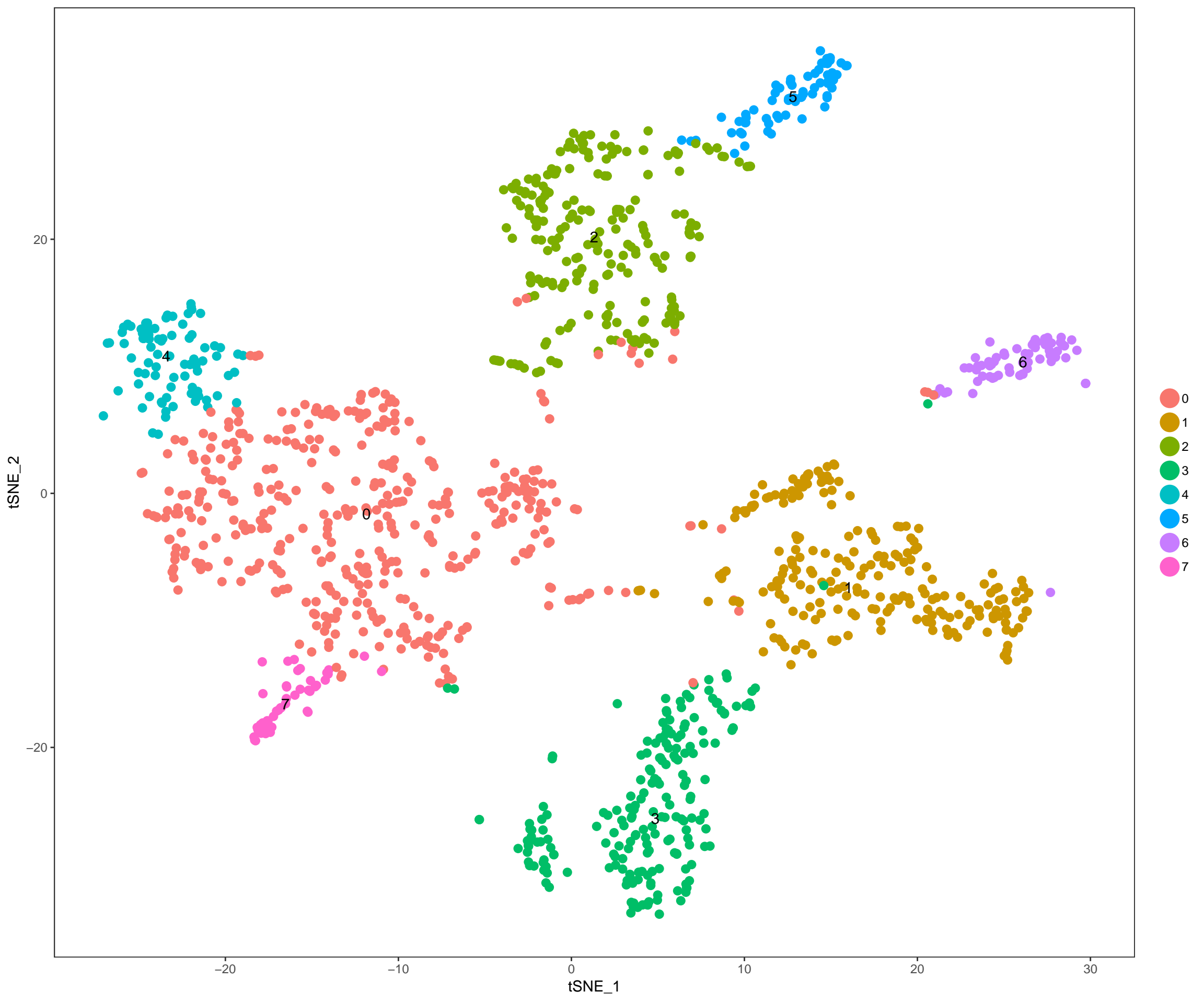


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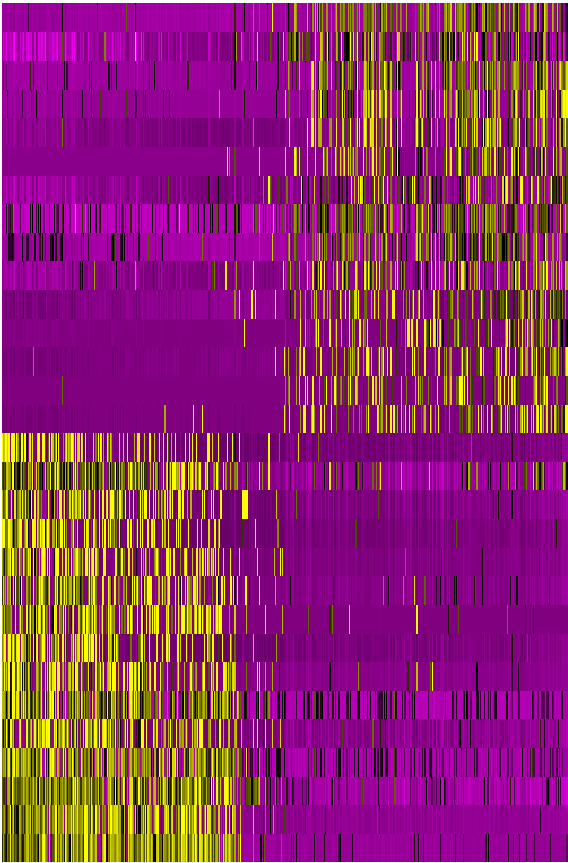


PC 1



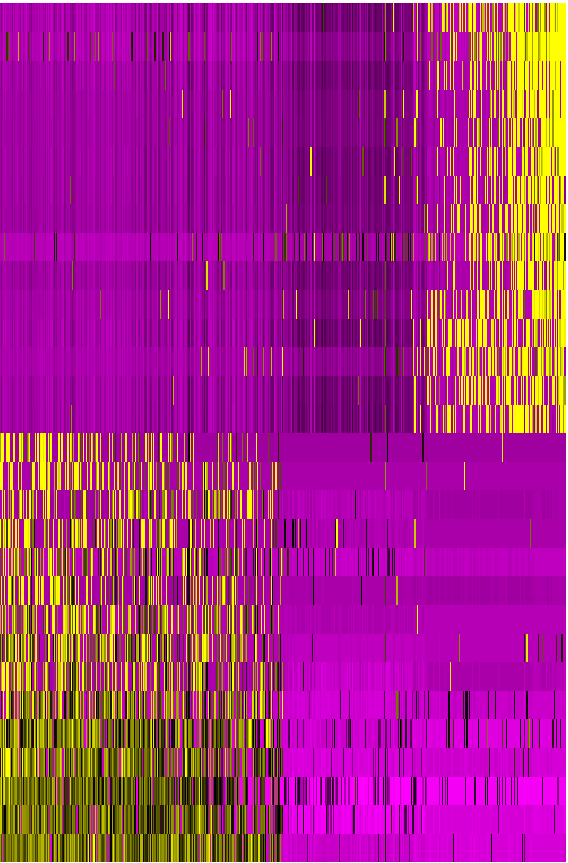
Col1a2
Col1a1
Bgn
Col3a1
Col6a1
Postn
Pcolce
Cpxm1
Col12a1
Adamts2
Cltk
Col5a3
Cxcl14
Col6a3
Col8a1
Col6
Trf
Tnfrsf9
Ramp3
Rgs2
Myo1g
Il7r
Cxcr4
Osm
Nlrp3
Acp5
Il1b
Il1rn
Lyz2
Cd14

PC 2



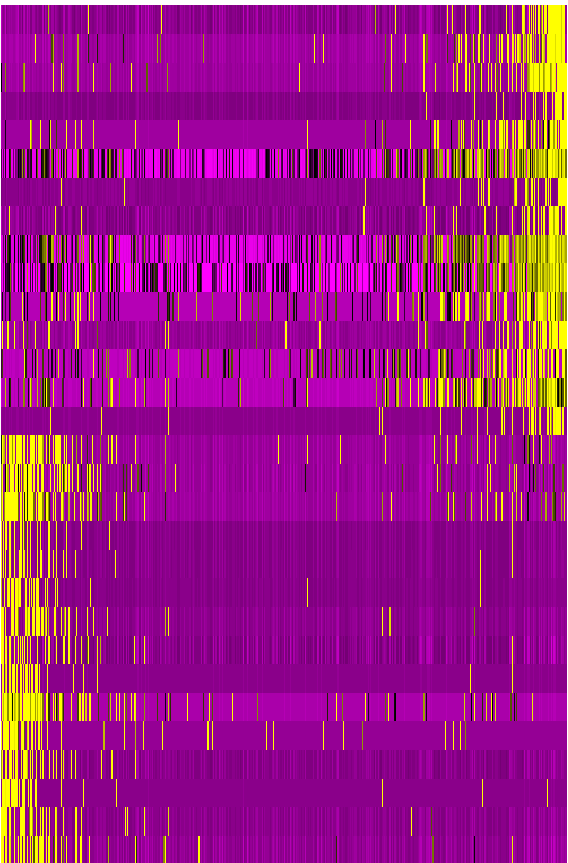
Lyz2
Mmp19
Il1rn
Il1b
Nlrp3
Osm
Lsp1
Cxcl2
Acp5
Mmp12
Cxcr4
Fgl2
Il7r
Ccl6
Myo1g
Clca3a2
Plcl1
Cpe
Lama5
Cldn4
Clu
Krt7
Cldn3
Igfbp5
Csn3
Sfn
Lcn2
Tm4sf1
Krt8
Krt18

PC 3



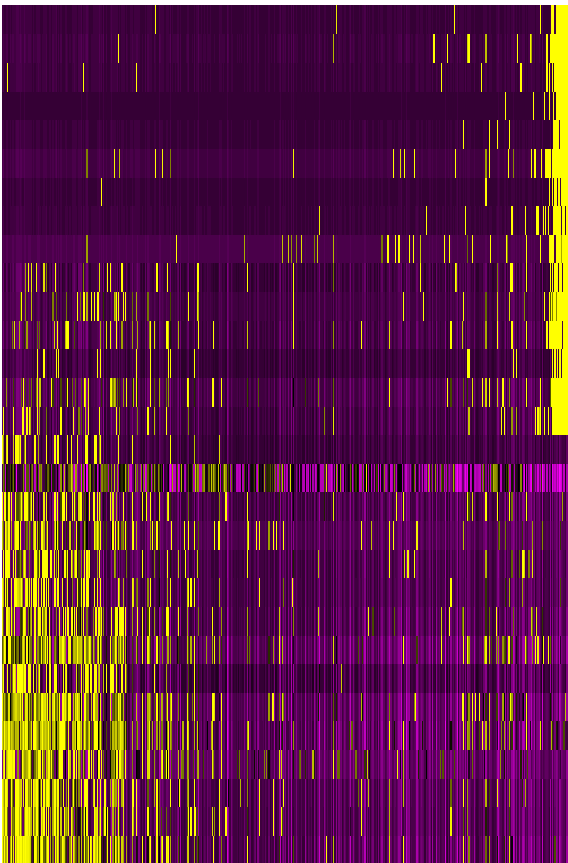
Icos
Tnfrsf9
Ccl4
Il2ra
Hopx
Ilk2f2
Tnfrsf4
Il2rb
Rora
Foxp3
Tnfrsf18
Cd3d
P2ry10
Lck
Cd2
Il1a
Slc11a1
Wfdc17
Cxcl3
Tnfrsf2
Ccl3
Ccl6
Osm
Nlrp3
Il1b
Acp5
Il1rn
Cxcl2
Cd14
Lyz2

PC 4



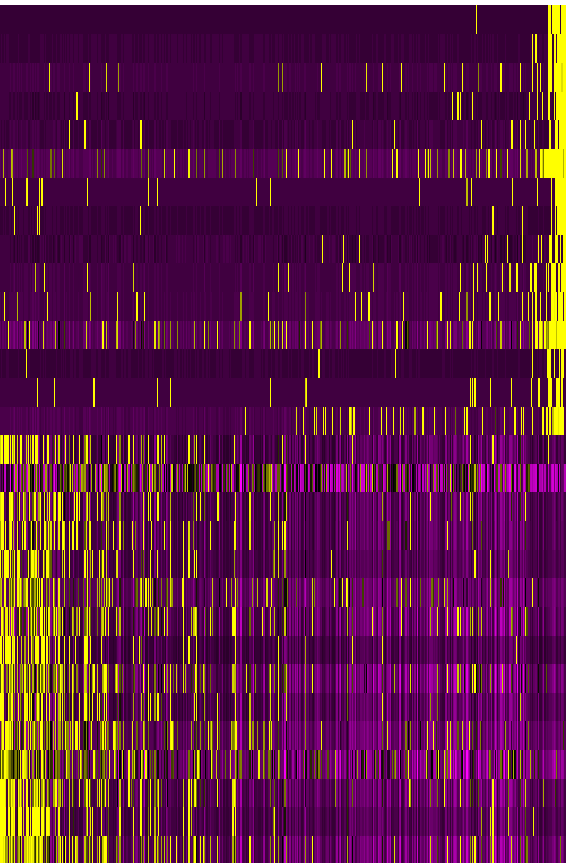
Fcrl1
Aldoc
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Mli2
Chil1
Csn3
Atp1a2
Hhipl2
Lcn2
Trf
Wfdc18
Tspan8
Csn1s1
Igfbp5
Tc2n
Lamb3
Lamc2
Itgb4
Krt5
Col17a1
Dynap
Wnt7b
Krt6a
Atg9b
Col18a1
Klk8
Lama3
Klk6
Krt17
Krt14

PC 5

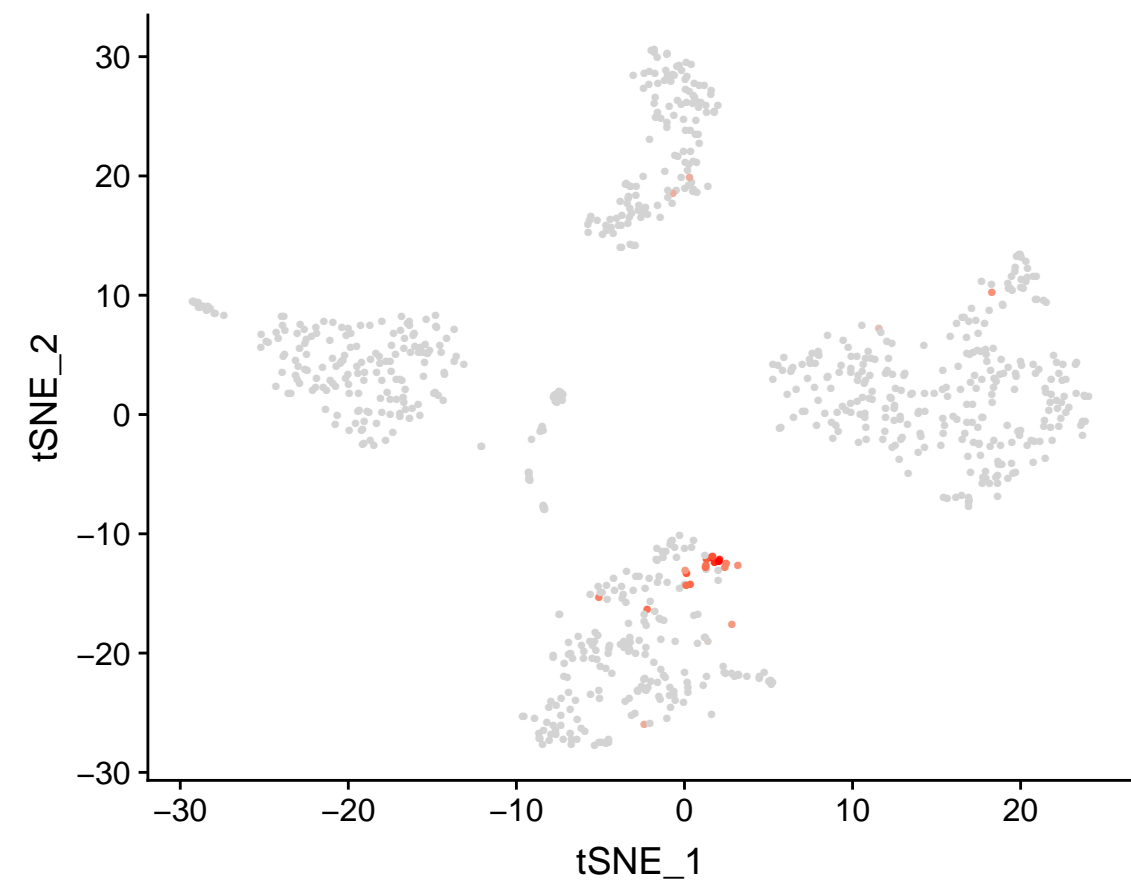
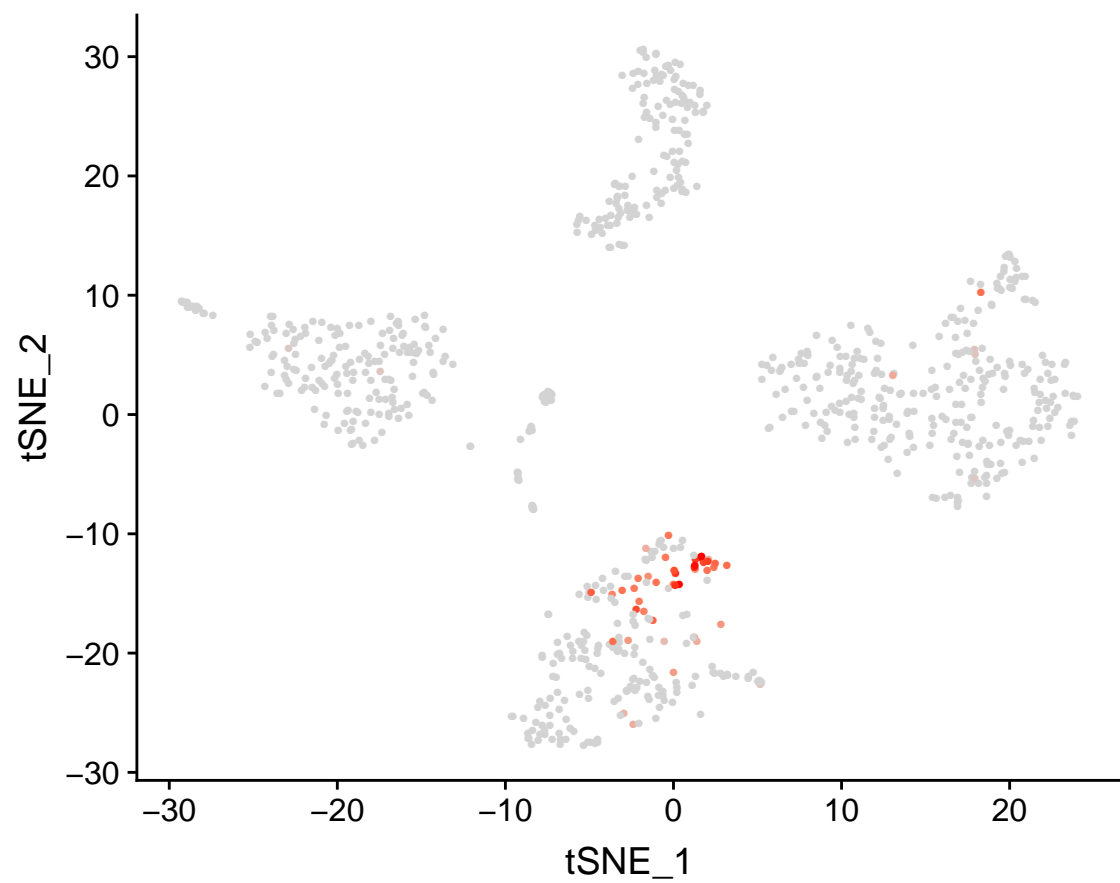
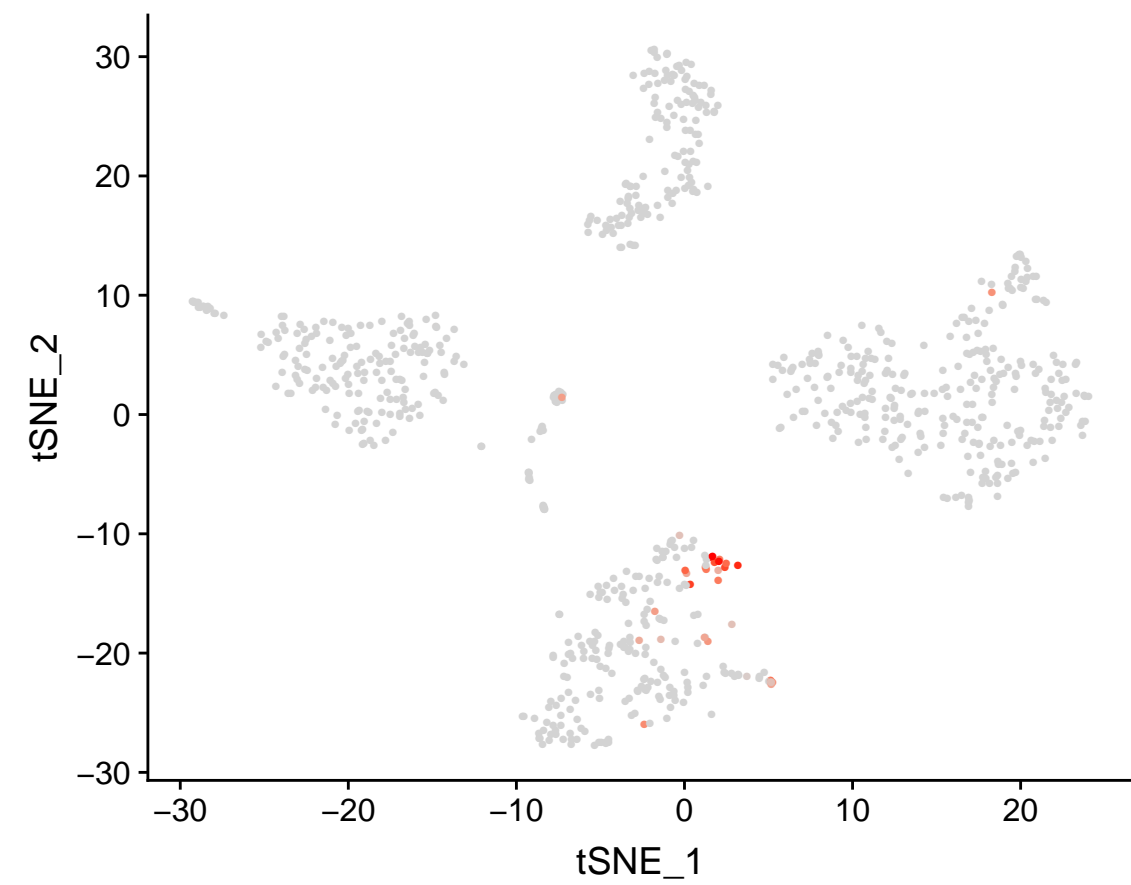


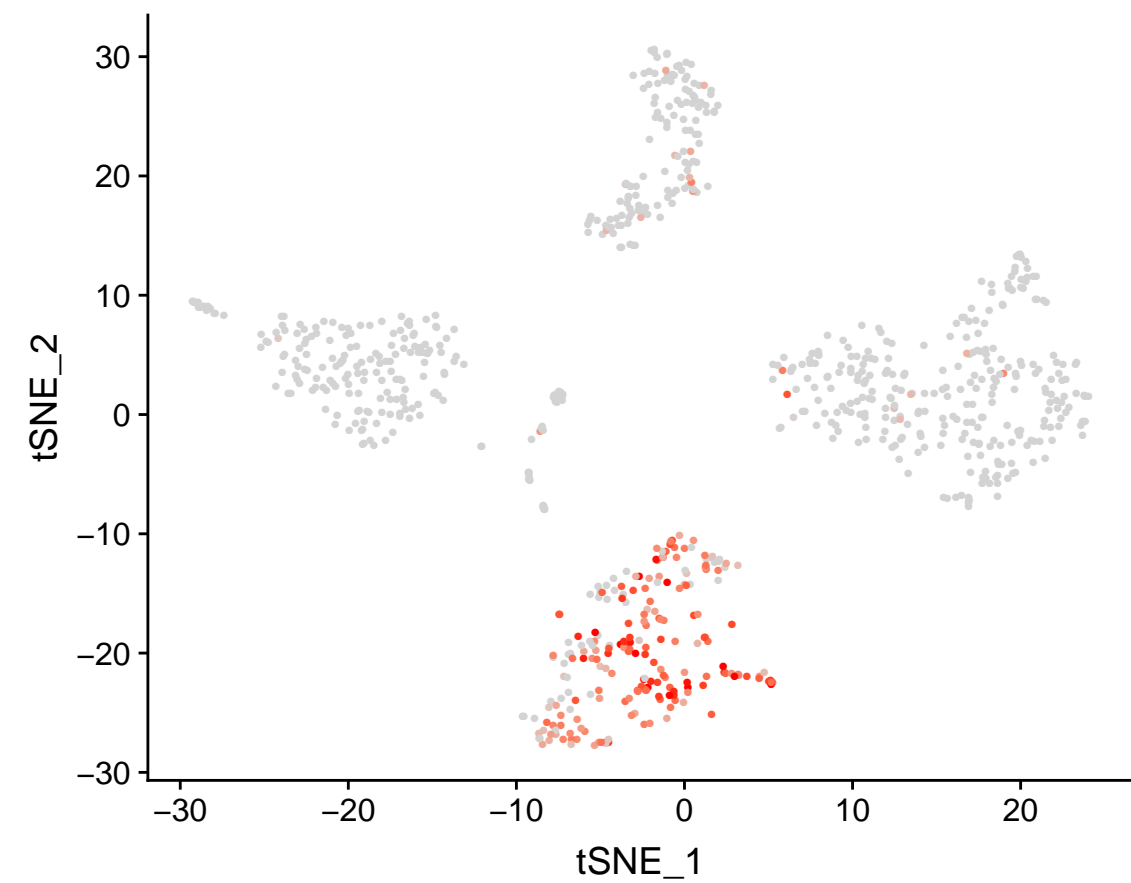
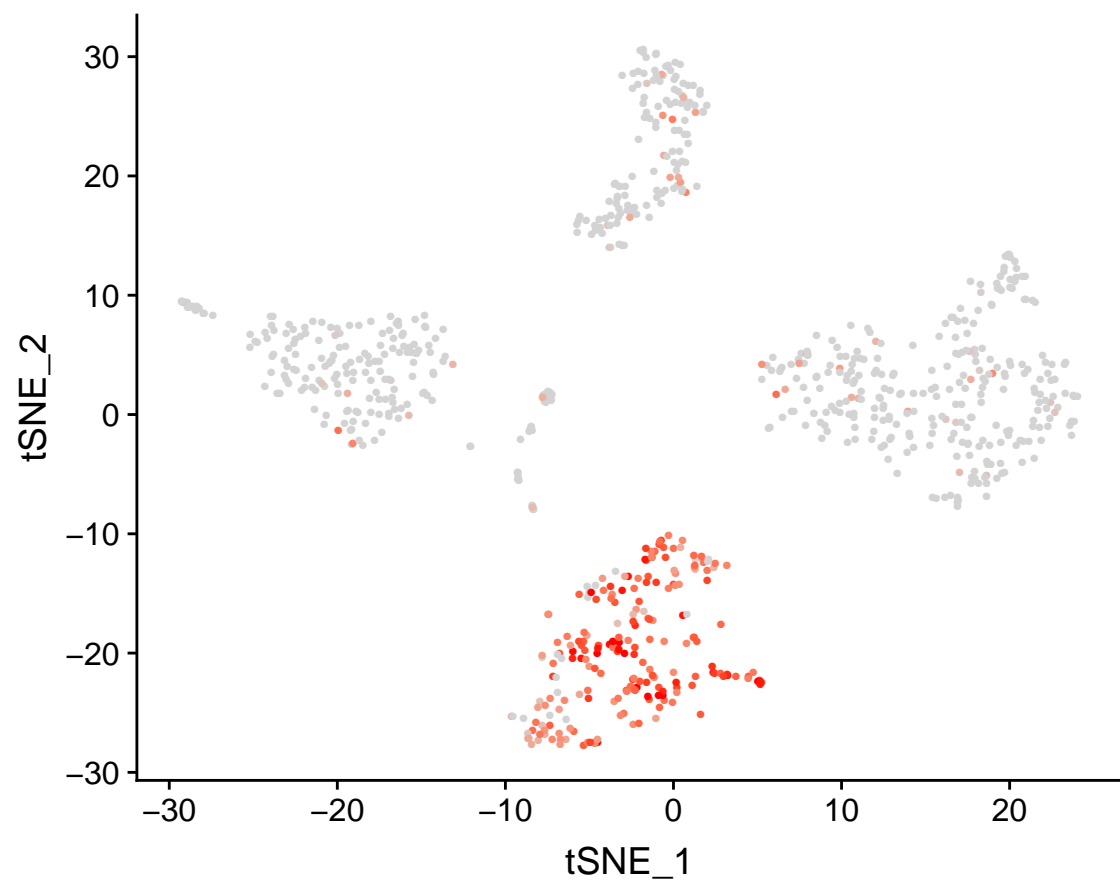
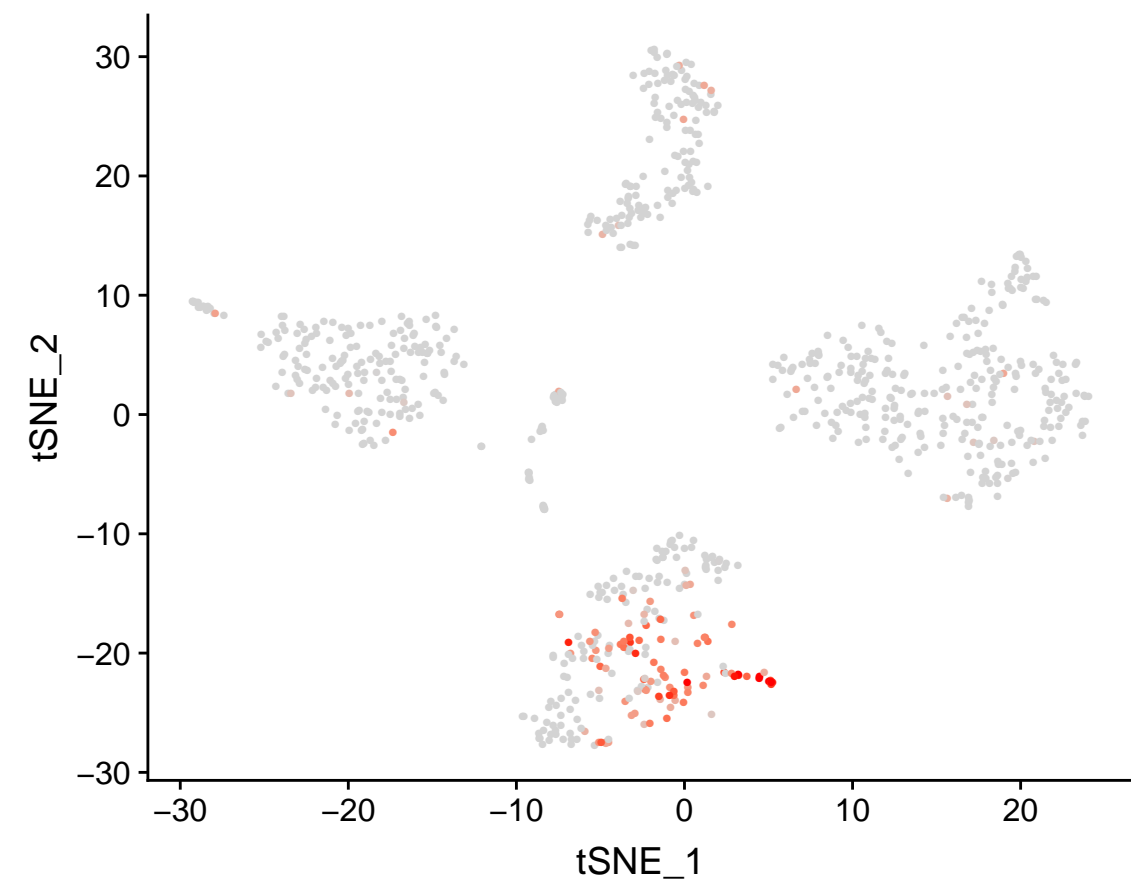
Etemp1
Dpt
Spon2
Clec3b
Ogn
Ly6c1
Strp4
Cd34
C3
Plx3
Igfbp6
Has1
Pcolce2
Tnfrsf6
Ackr3
Actg2
Spp1
Igfbp2
Tpm2
Inhba
Myl9
Mmp10
Igfbp3
Aldh1a2
Col8a1
Col12a1
Mmp13
Tagln
Acta2
Lrrc15

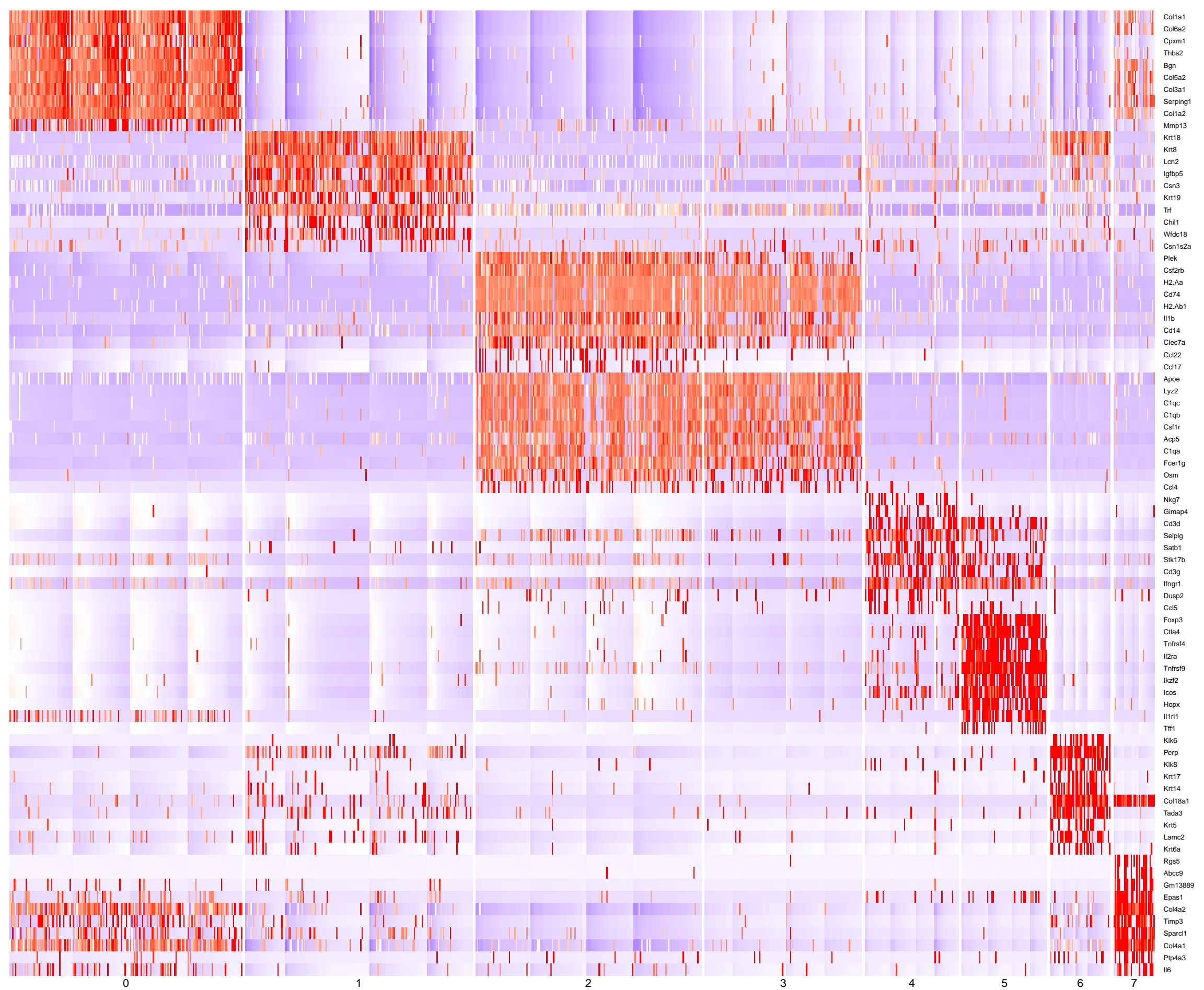
PC 6

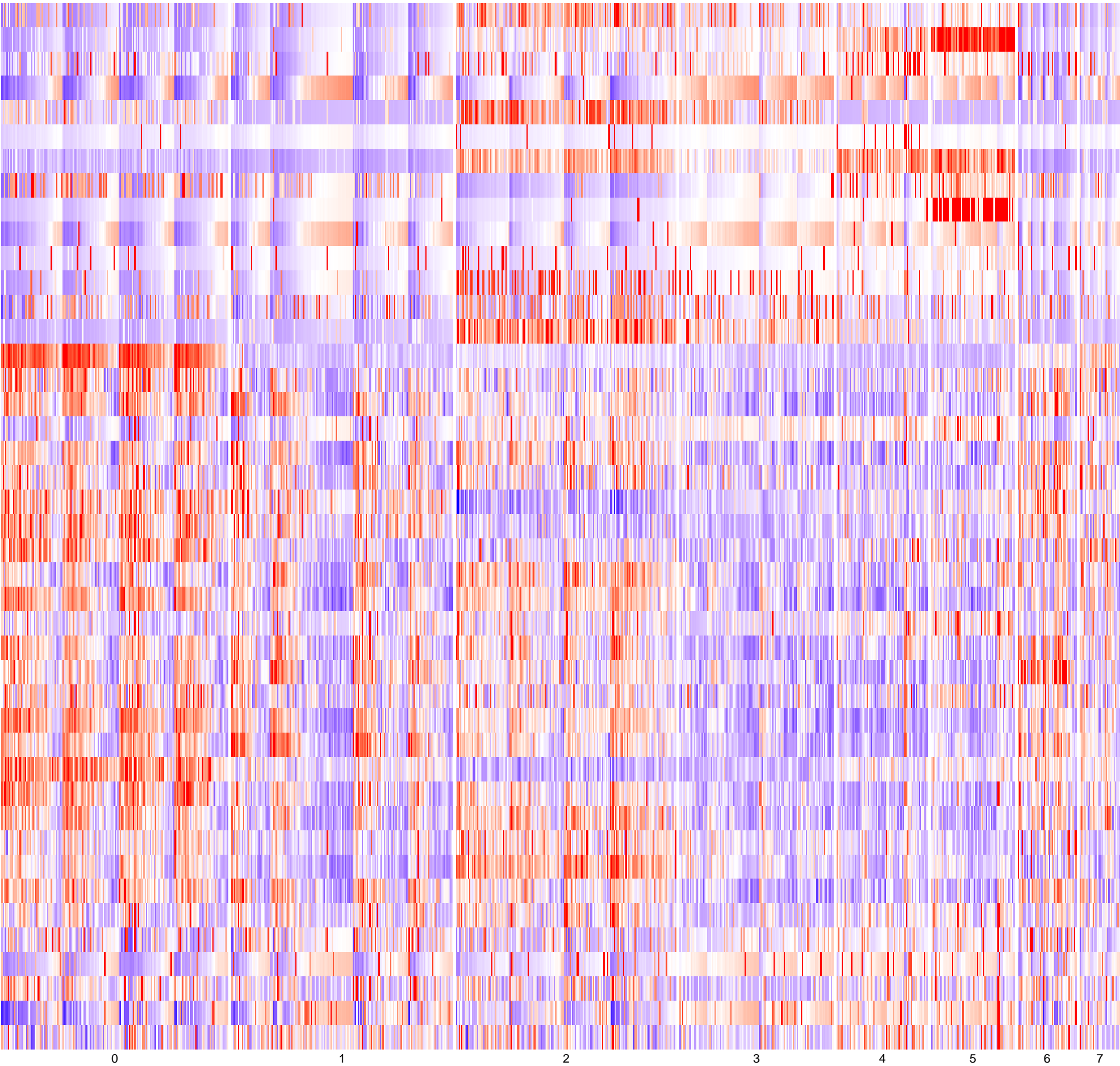


Abcc9
Rgs5
Gm13889
Esam
Gjc1
Epas1
Kcne4
Enpep
Ednrb
Mtus1
Ptp4a3
Sparcl1
Fabp4
Itga7
Apold1
Ccl11
Spp1
Fncl1
Igfbp2
Eln
Csf1
Lrrc15
Clp
Cxcl14
Ace
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Ml2
Dcn
Lum
Cpxm1

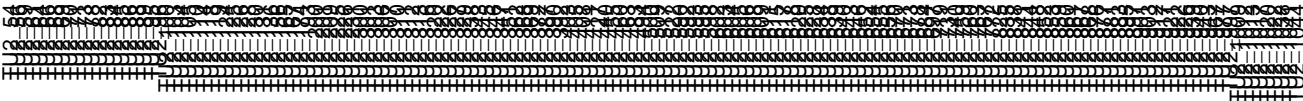
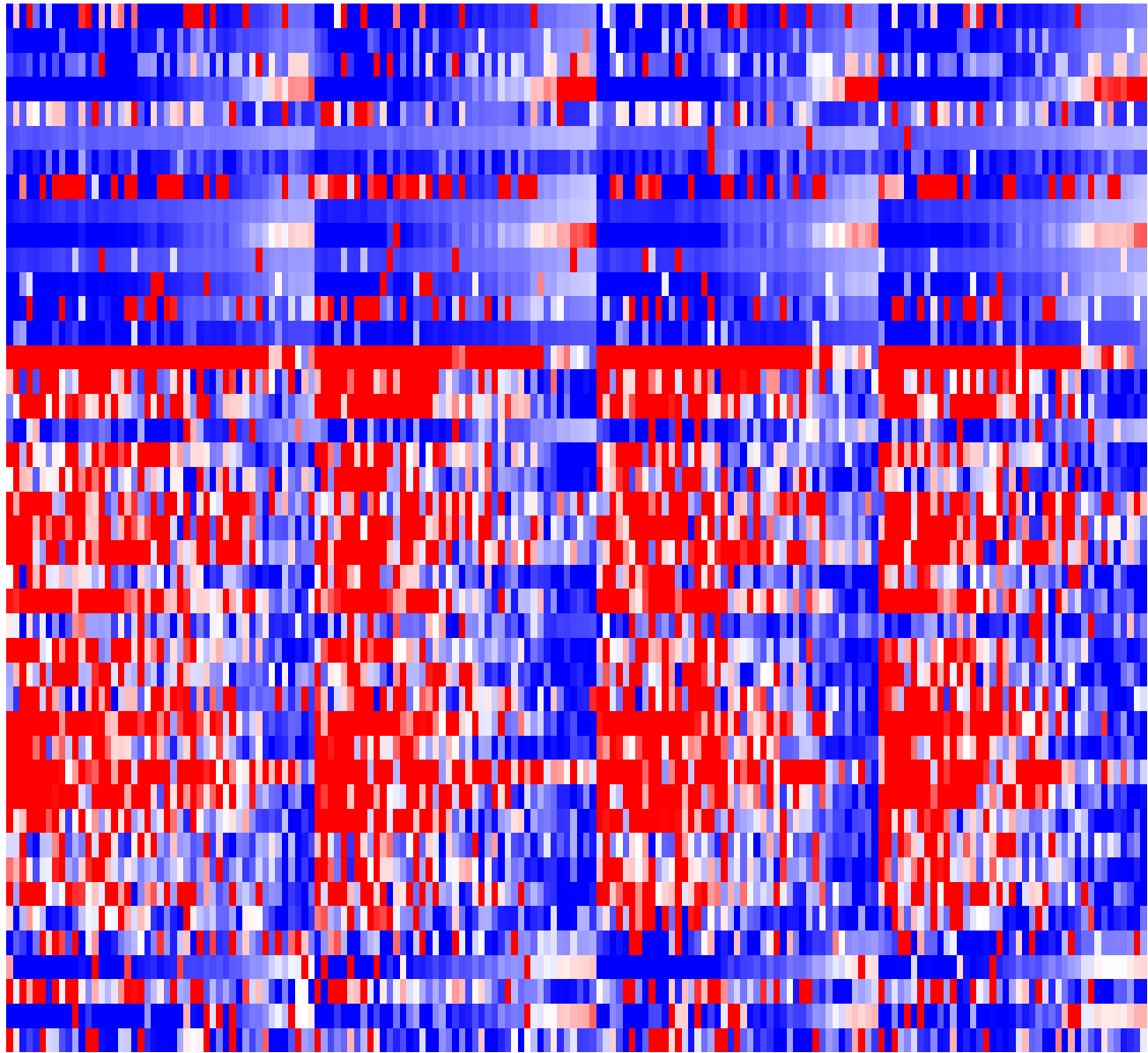
Krt5**Krt14****Krt6a**

Krt8**Krt18****Krt19**

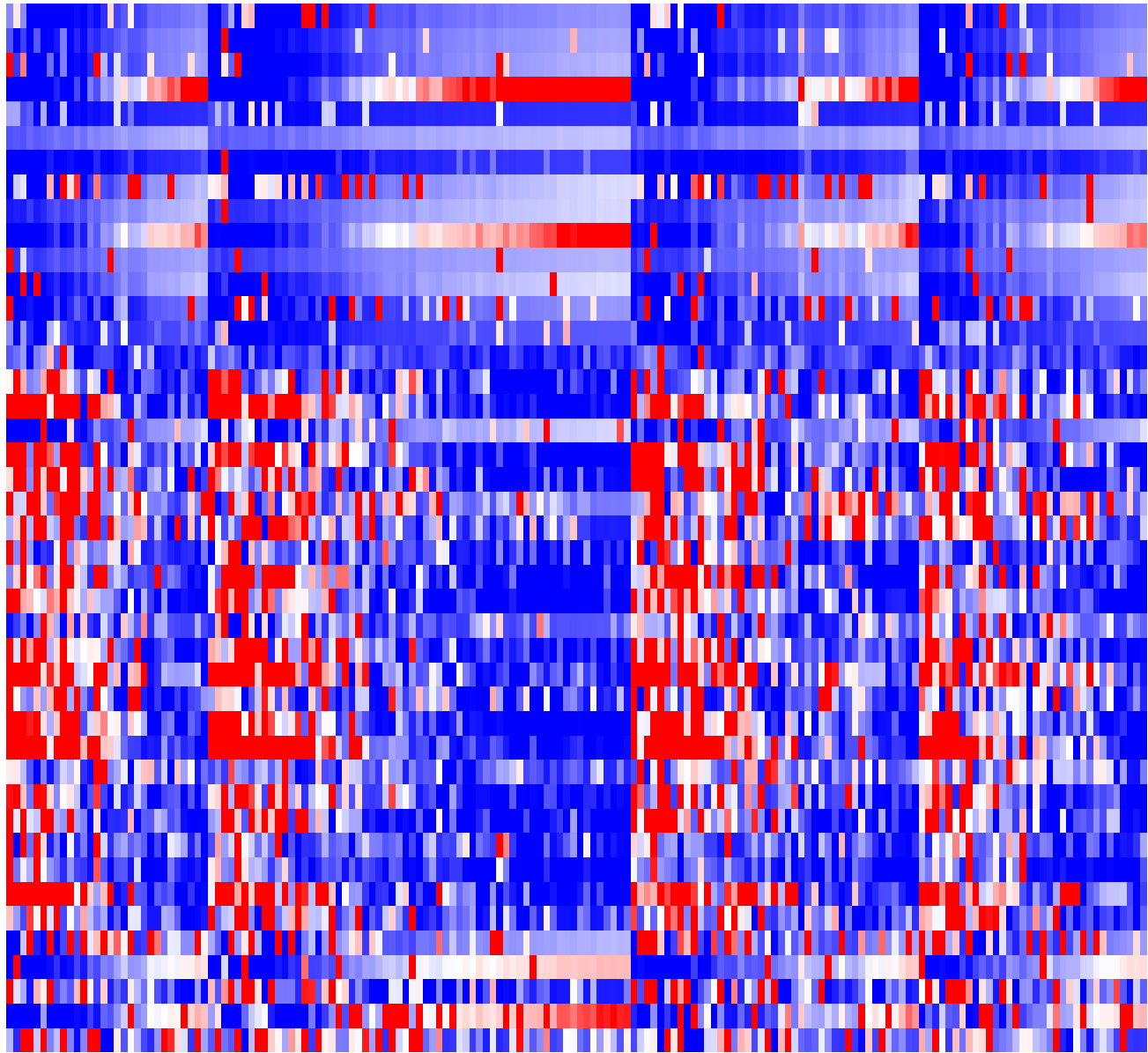




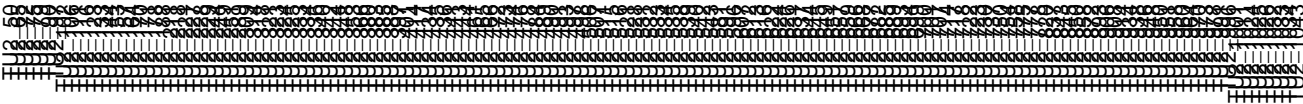
Gene-set enrichment within the cluster 0 (TU2)



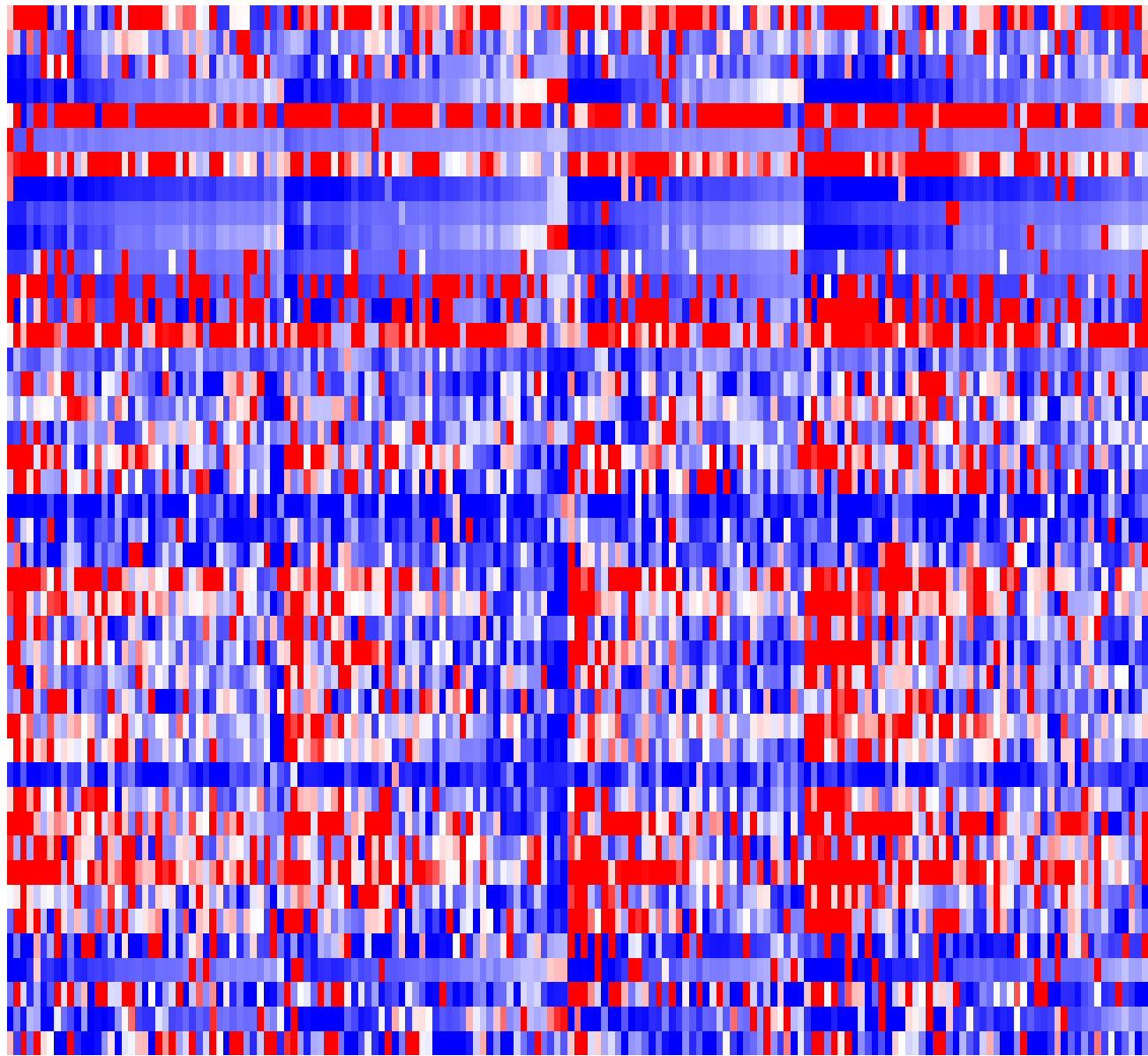
Gene-set enrichment within the cluster 1 (TU2)



CP_INHIBITORY
CP_STIMULATORY
TCELL_ACTIVATION
TCELL_CYTOLYTIC_ACT
MACROPHAGE_ACTIVITY
NK_CELLS
LCK
Tfh
Treg
MHC_I
STAT1
B_CELLS
NEUTROPHILS
DENDRITIC_CELLS
EMT
WNT BETA CATENIN SIGNALING
TGF BETA SIGNALING
G2M CHECKPOINT
APOPTOSIS
NOTCH SIGNALING
ESTROGEN RESPONSE EARLY
ESTROGEN RESPONSE LATE
HEDGEHOG SIGNALING
PI3K-AKT-MTOR SIGNALING
MTORC1 SIGNALING
E2F TARGETS
MYC TARGETS
P53 PATHWAY
KRAS SIGNALING UP
HYPOXIA
INVASIVENESS GENE SIGNATURE
EPIGENETIC STEM CELL
ANGIOGENESIS
ECM
INTERFERON ALPHA RESPONSE
INTERFERON GAMMA RESPONSE
FIBROBLAST GROWTH FACTOR RECEPTOR
CHROMOSOMAL INSTABILITY
BASE EXCISION REPAIR
MISMATCH EXCISION REPAIR
NUCLEOTIDE EXCISION REPAIR
HOMOLOGOUS RECOMBINATION
NONHOMOLOGOUS END JOINING



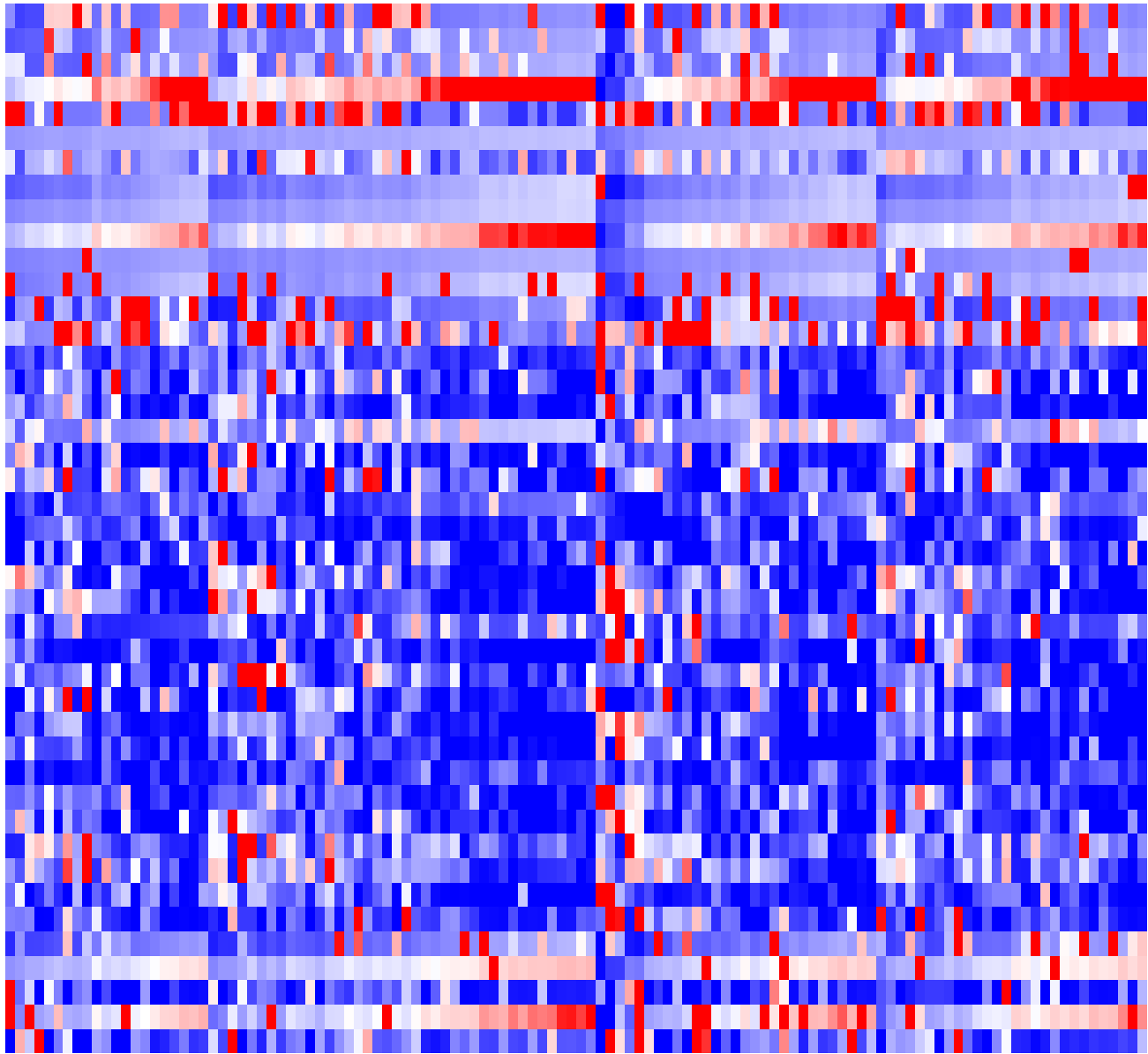
Gene-set enrichment within the cluster 2 (TU2)



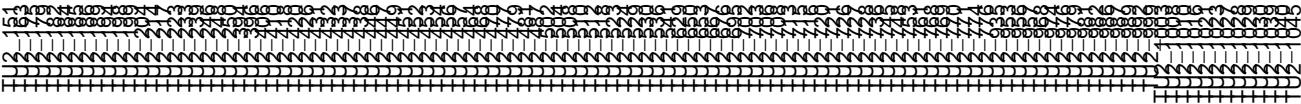
- CP_INHIBITORY
- CP_STIMULATORY
- TCELL_ACTIVATION
- TCELL_CYTOLYTIC_ACT
- MACROPHAGE_ACTIVITY
- NK_CELLS
- LCK
- Tfh
- Treg
- MHC_I
- STAT1
- B_CELLS
- NEUTROPHILS
- DENDRITIC_CELLS
- EMT
- WNT BETA CATENIN SIGNALING
- TGF BETA SIGNALING
- G2M CHECKPOINT
- APOPTOSIS
- NOTCH SIGNALING
- ESTROGEN RESPONSE EARLY
- ESTROGEN RESPONSE LATE
- HEDGEHOG SIGNALING
- PI3K-AKT-MTOR SIGNALING
- MTORC1 SIGNALING
- E2F TARGETS
- MYC TARGETS
- P53 PATHWAY
- KRAS SIGNALING UP
- HYPOXIA
- INVASIVENESS GENE SIGNATURE
- EPIGENETIC STEM CELL
- ANGIOGENESIS
- ECM
- INTERFERON ALPHA RESPONSE
- INTERFERON GAMMA RESPONSE
- FIBROBLAST GROWTH FACTOR RECEPTOR
- CHROMOSOMAL INSTABILITY
- BASE EXCISION REPAIR
- MISMATCH EXCISION REPAIR
- NUCLEOTIDE EXCISION REPAIR
- HOMOLOGOUS RECOMBINATION
- NONHOMOLOGOUS END JOINING



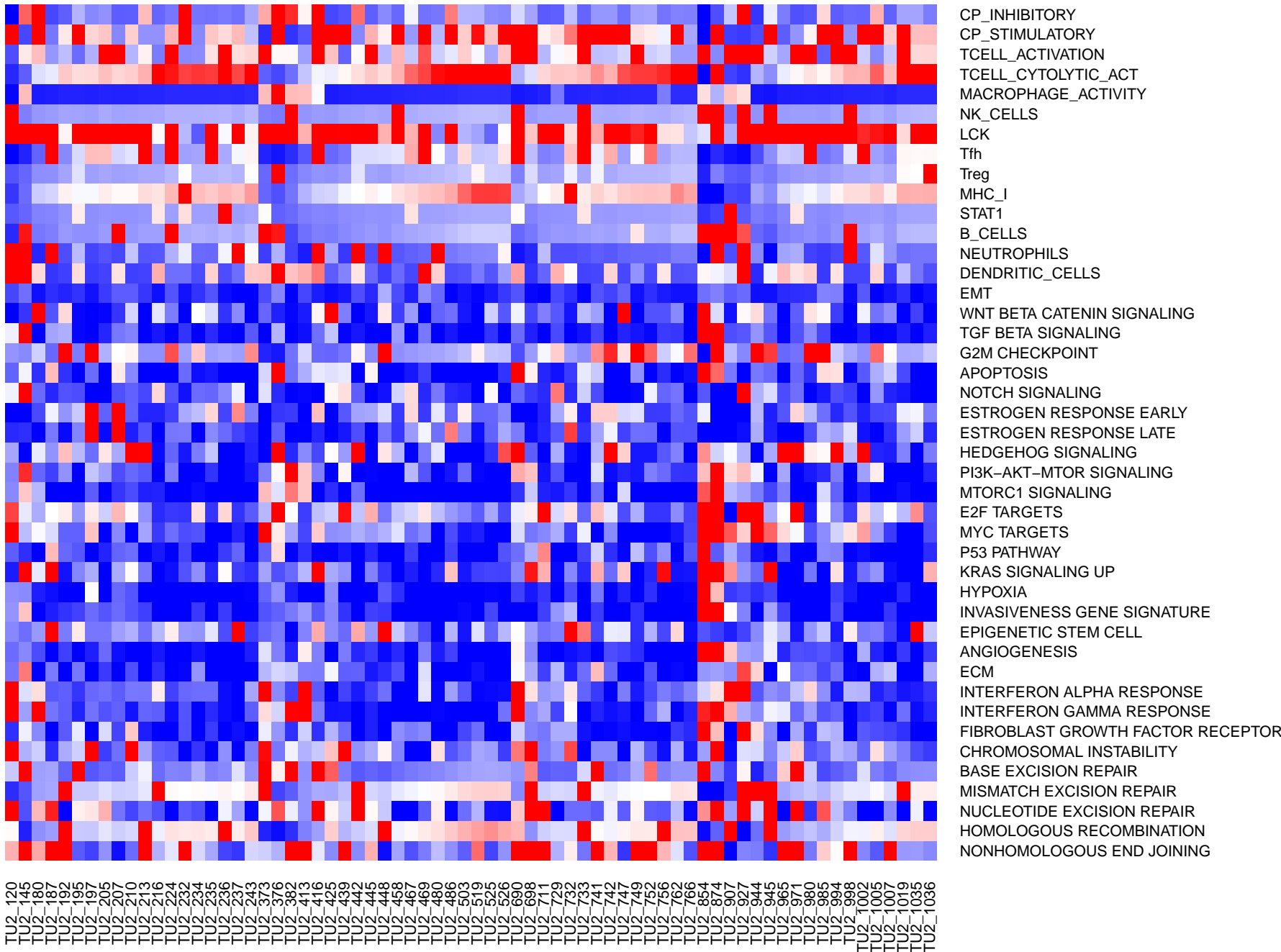
Gene-set enrichment within the cluster 3 (TU2)



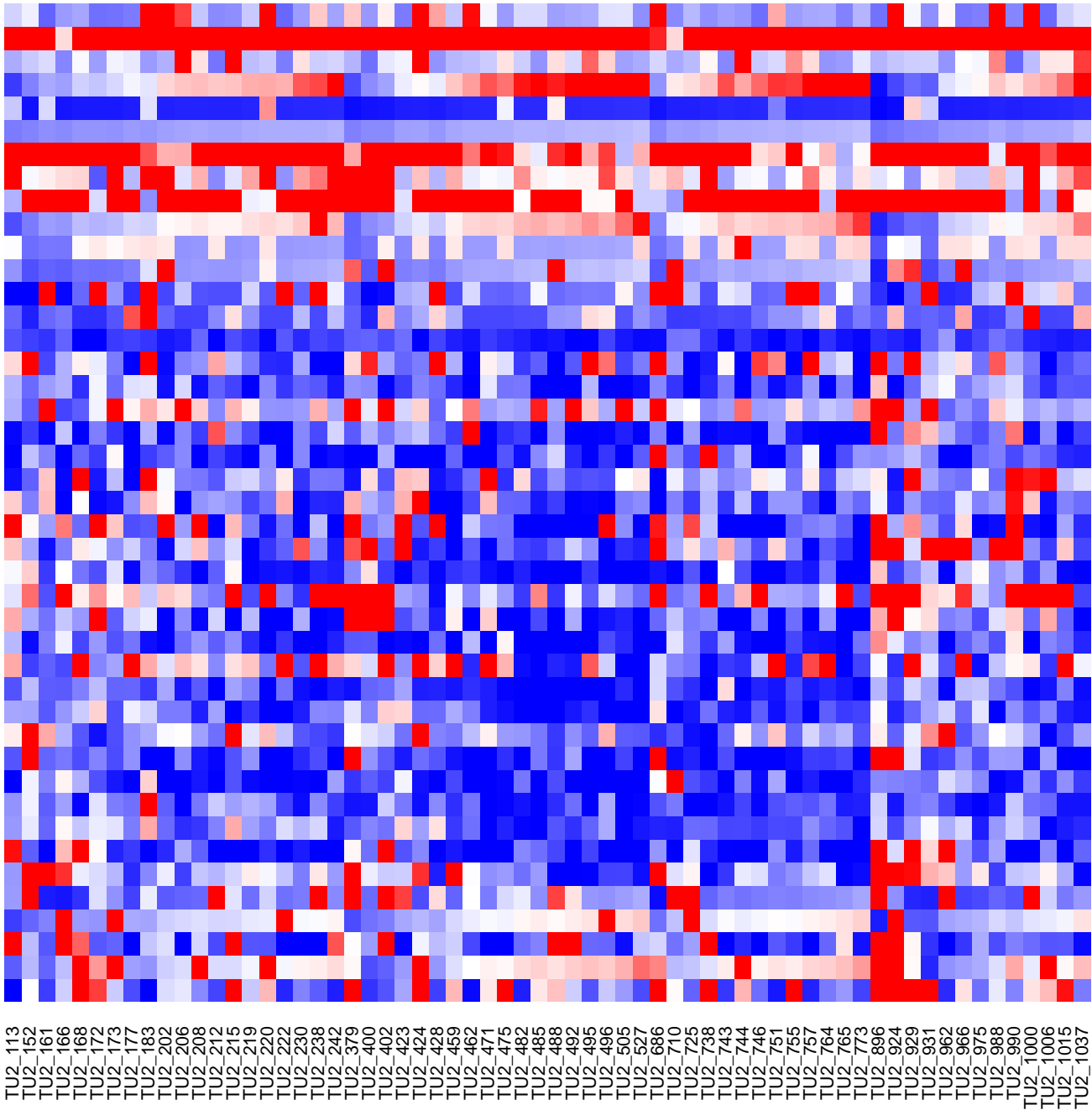
- CP_INHIBITORY
- CP_STIMULATORY
- TCELL_ACTIVATION
- TCELL_CYTOLYTIC_ACT
- MACROPHAGE_ACTIVITY
- NK_CELLS
- LCK
- Tfh
- Treg
- MHC_I
- STAT1
- B_CELLS
- NEUTROPHILS
- DENDRITIC_CELLS
- EMT
- WNT BETA CATENIN SIGNALING
- TGF BETA SIGNALING
- G2M CHECKPOINT
- APOPTOSIS
- NOTCH SIGNALING
- ESTROGEN RESPONSE EARLY
- ESTROGEN RESPONSE LATE
- HEDGEHOG SIGNALING
- PI3K-AKT-MTOR SIGNALING
- MTORC1 SIGNALING
- E2F TARGETS
- MYC TARGETS
- P53 PATHWAY
- KRAS SIGNALING UP
- HYPOXIA
- INVASIVENESS GENE SIGNATURE
- EPIGENETIC STEM CELL
- ANGIOGENESIS
- ECM
- INTERFERON ALPHA RESPONSE
- INTERFERON GAMMA RESPONSE
- FIBROBLAST GROWTH FACTOR RECEPTOR
- CHROMOSOMAL INSTABILITY
- BASE EXCISION REPAIR
- MISMATCH EXCISION REPAIR
- NUCLEOTIDE EXCISION REPAIR
- HOMOLOGOUS RECOMBINATION
- NONHOMOLOGOUS END JOINING



Gene-set enrichment within the cluster 4 (TU2)

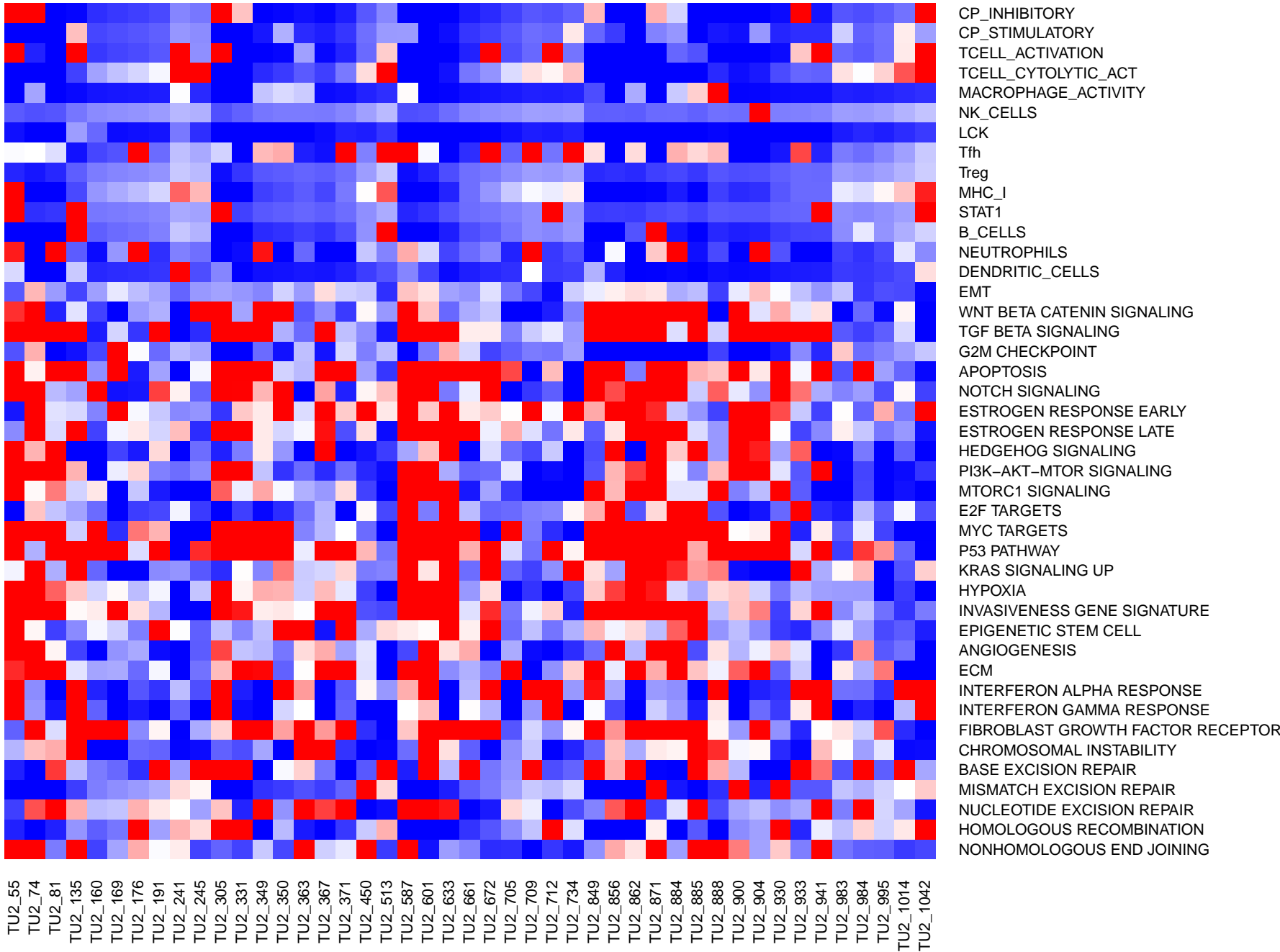


Gene-set enrichment within the cluster 5 (TU2)



- CP_INHIBITORY
- CP_STIMULATORY
- TCELL_ACTIVATION
- TCELL_CYTOLYTIC_ACT
- MACROPHAGE_ACTIVITY
- NK_CELLS
- LCK
- Tfh
- Treg
- MHC_I
- STAT1
- B_CELLS
- NEUTROPHILS
- DENDRITIC_CELLS
- EMT
- WNT BETA CATENIN SIGNALING
- TGF BETA SIGNALING
- G2M CHECKPOINT
- APOPTOSIS
- NOTCH SIGNALING
- ESTROGEN RESPONSE EARLY
- ESTROGEN RESPONSE LATE
- HEDGEHOG SIGNALING
- PI3K-AKT-MTOR SIGNALING
- MTORC1 SIGNALING
- E2F TARGETS
- MYC TARGETS
- P53 PATHWAY
- KRAS SIGNALING UP
- HYPOXIA
- INVASIVENESS GENE SIGNATURE
- EPIGENETIC STEM CELL
- ANGIOGENESIS
- ECM
- INTERFERON ALPHA RESPONSE
- INTERFERON GAMMA RESPONSE
- FIBROBLAST GROWTH FACTOR RECEPTOR
- CHROMOSOMAL INSTABILITY
- BASE EXCISION REPAIR
- MISMATCH EXCISION REPAIR
- NUCLEOTIDE EXCISION REPAIR
- HOMOLOGOUS RECOMBINATION
- NONHOMOLOGOUS END JOINING

Gene-set enrichment within the cluster 6 (TU2)



Gene-set enrichment within the cluster 7 (TU2)

