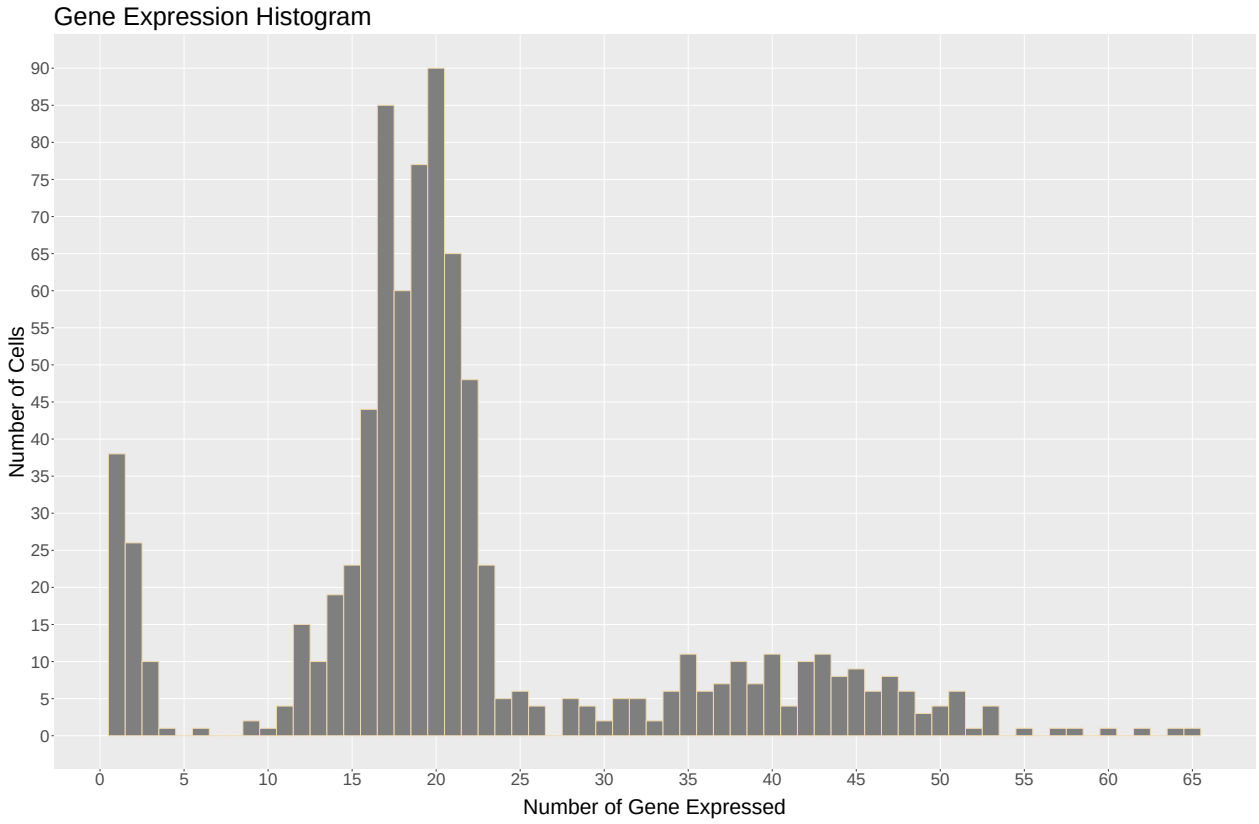
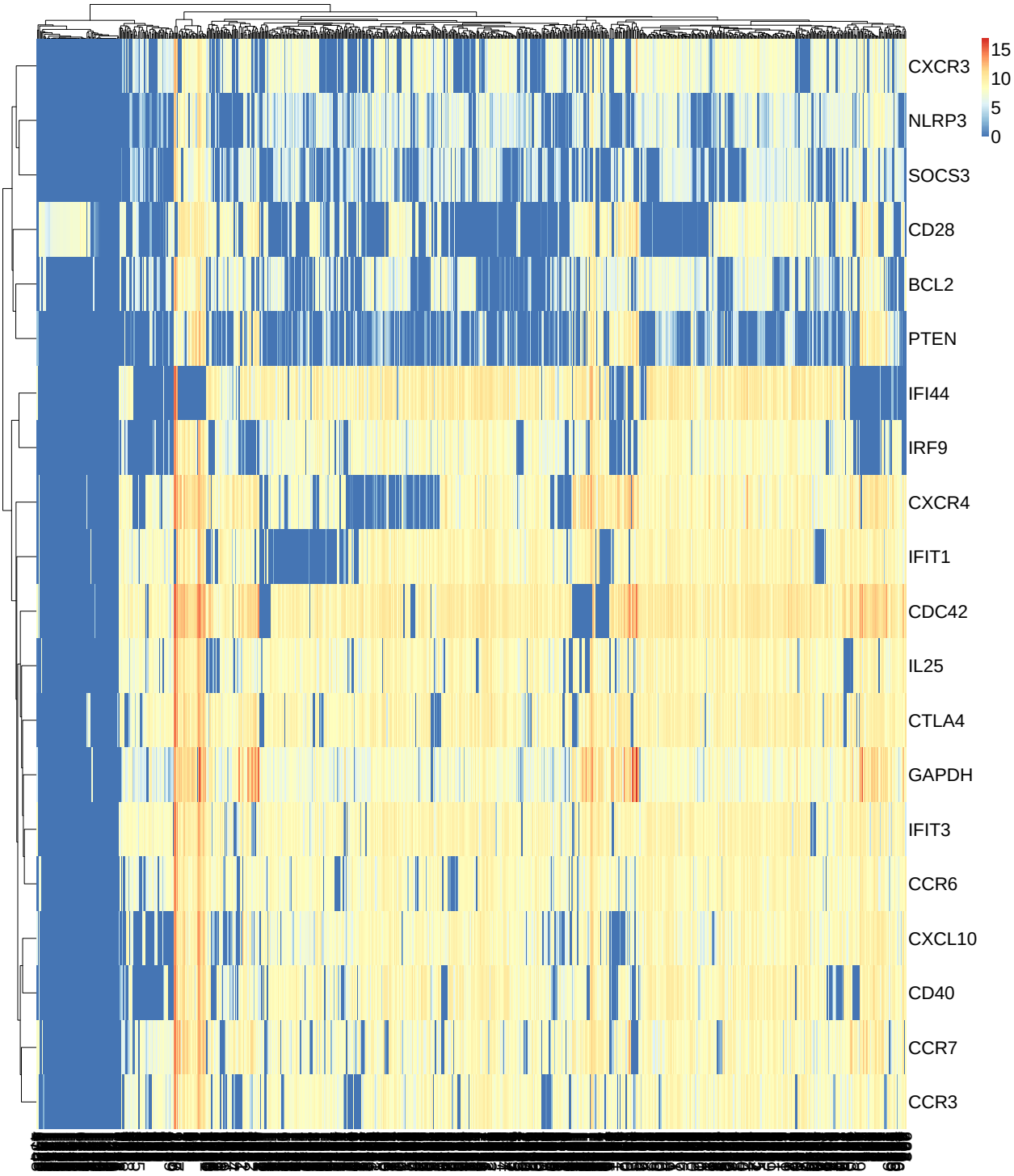
T1D_specific_analysis

```
No expression detected in 22/1480 cells
```

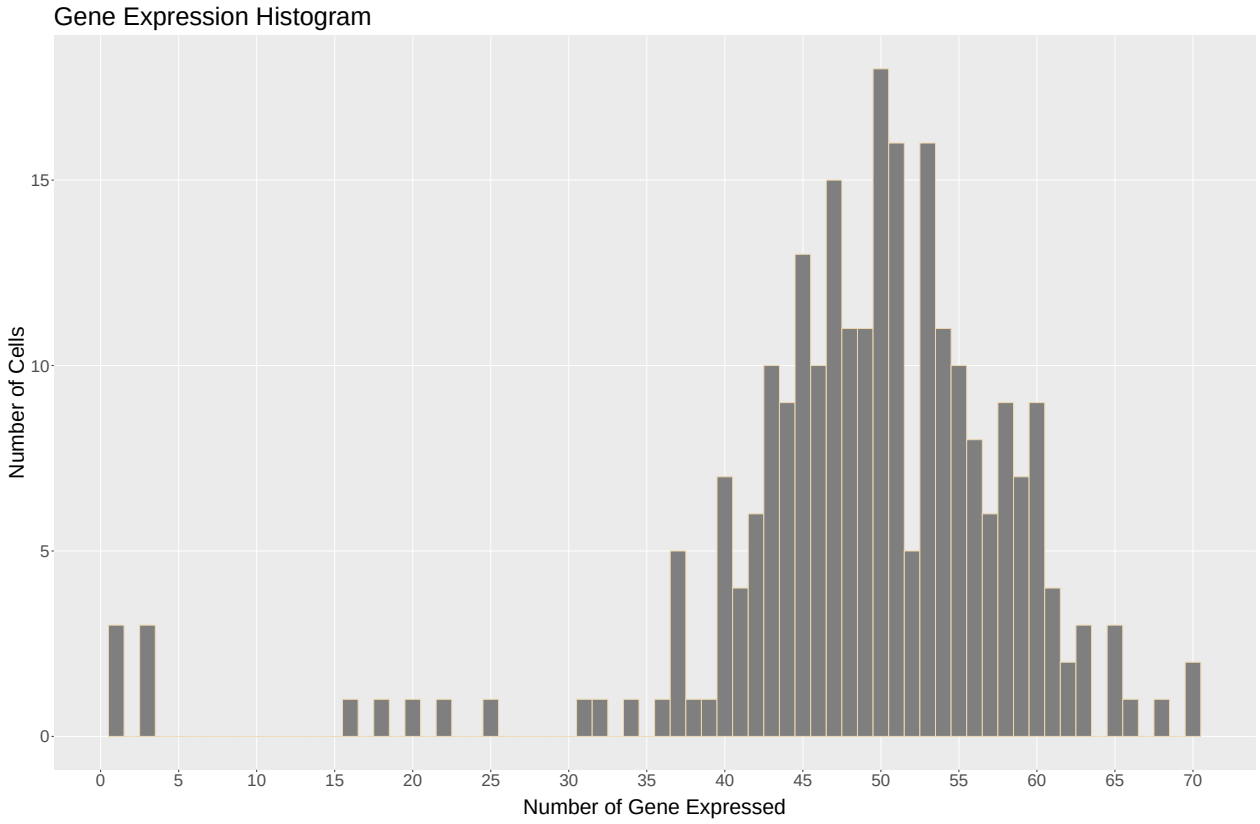
For all Tetramer cells



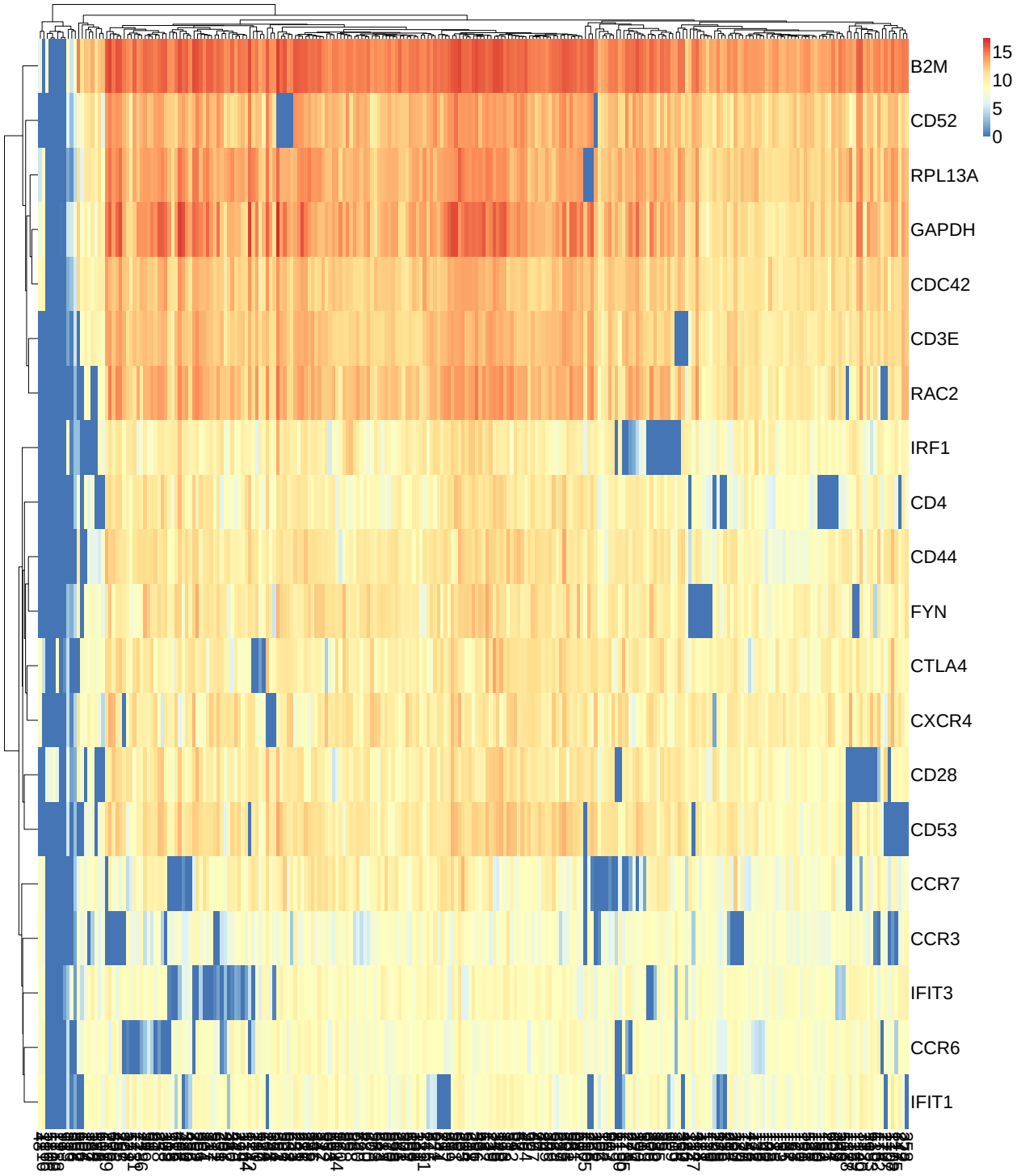

```
[1] "Total number of cells: 825"
[1] "Top 20 expressing genes: "
 [1] "GAPDH"  "IFIT3"  "CCR6"   "CTLA4"  "CCR7"   "CDC42"  "IL25"
 [8] "CCR3"   "CXCL10" "CD40"   "CXCR4"  "IFIT1"  "IFI44"  "IRF9"
[15] "NLRP3"  "CXCR3"  "BCL2"   "SOCS3"  "CD28"   "PTEN"
```


15
10
5
0
CXCR3
NLRP3
SOCS3
CD28
BCL2
PTEN
IFI44
IRF9
CXCR4
IFIT1
CDC42
IL25
CTLA4
GAPDH
IFIT3
CCR6
CXCL10
CD40
CCR7
CCR3

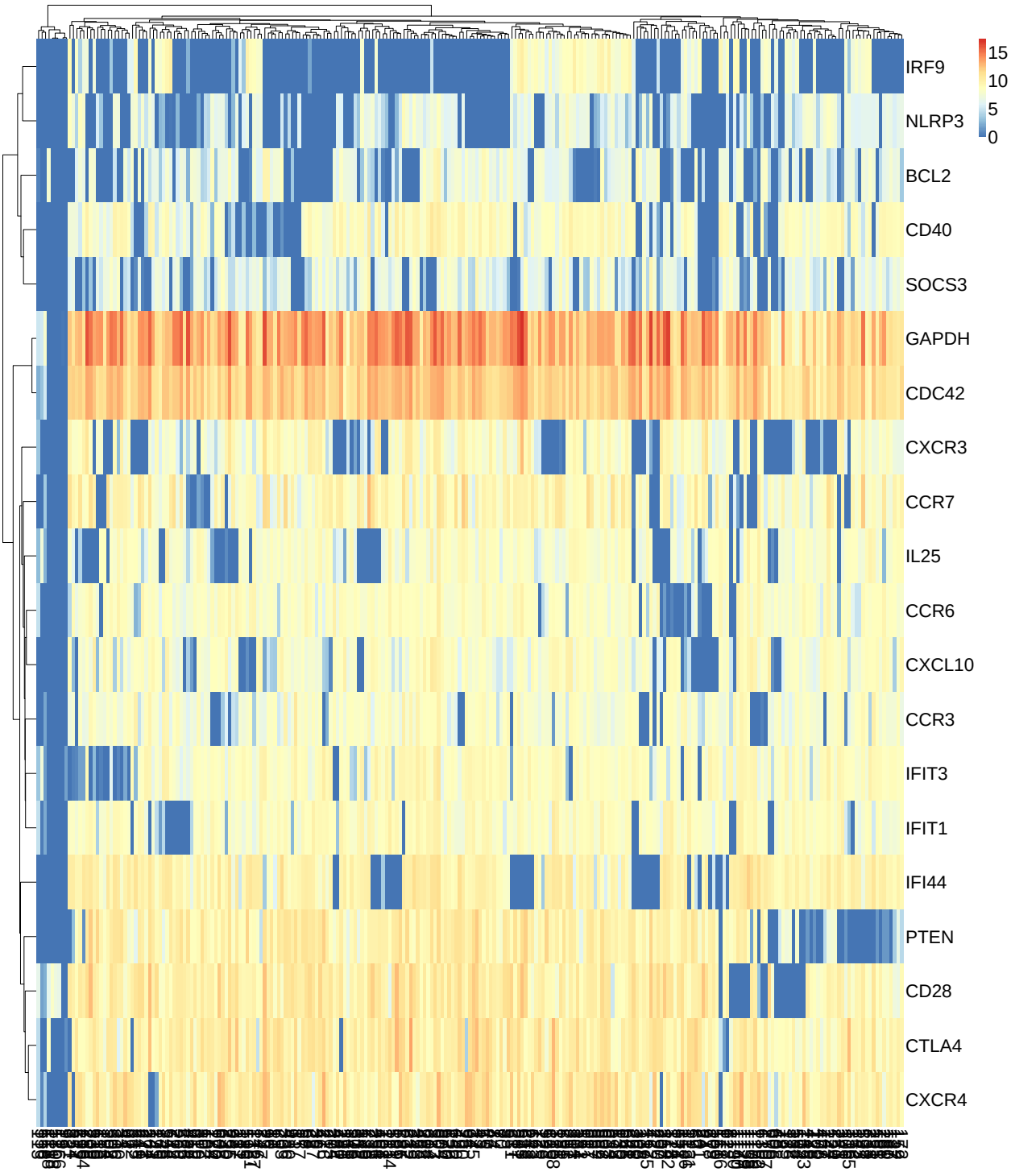
For all PD1+/ICOS+ cells



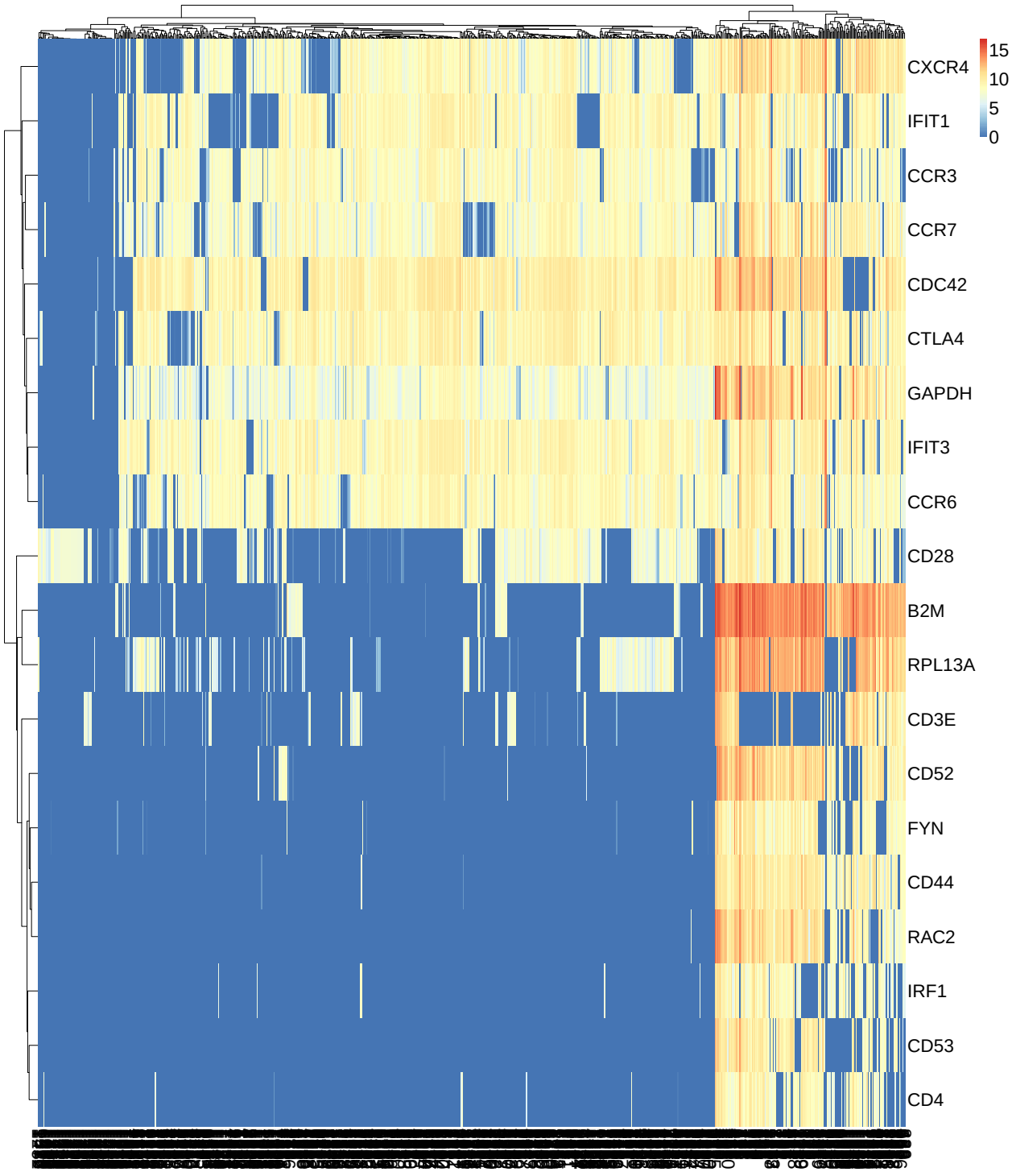

```
[1] "Total number of cells: 249"
[1] "Top 20 expressing genes: "
 [1] "GAPDH"  "B2M"    "CDC42"  "RPL13A" "CTLA4"  "CXCR4"  "CD3E"
 [8] "CD44"   "CD52"   "RAC2"   "FYN"    "IFIT3"  "CD28"   "CCR6"
[15] "IFIT1"  "CD53"   "CD4"    "CCR3"   "IRF1"   "CCR7"
```


B2M
CD52
RPL13A
GAPDH
CDC42
CD3E
RAC2
IRF1
CD4
CD44
FYN
CTLA4
CXCR4
CD28
CD53
CCR7
CCR3
IFIT3
CCR6
IFIT1
15
10
5
0

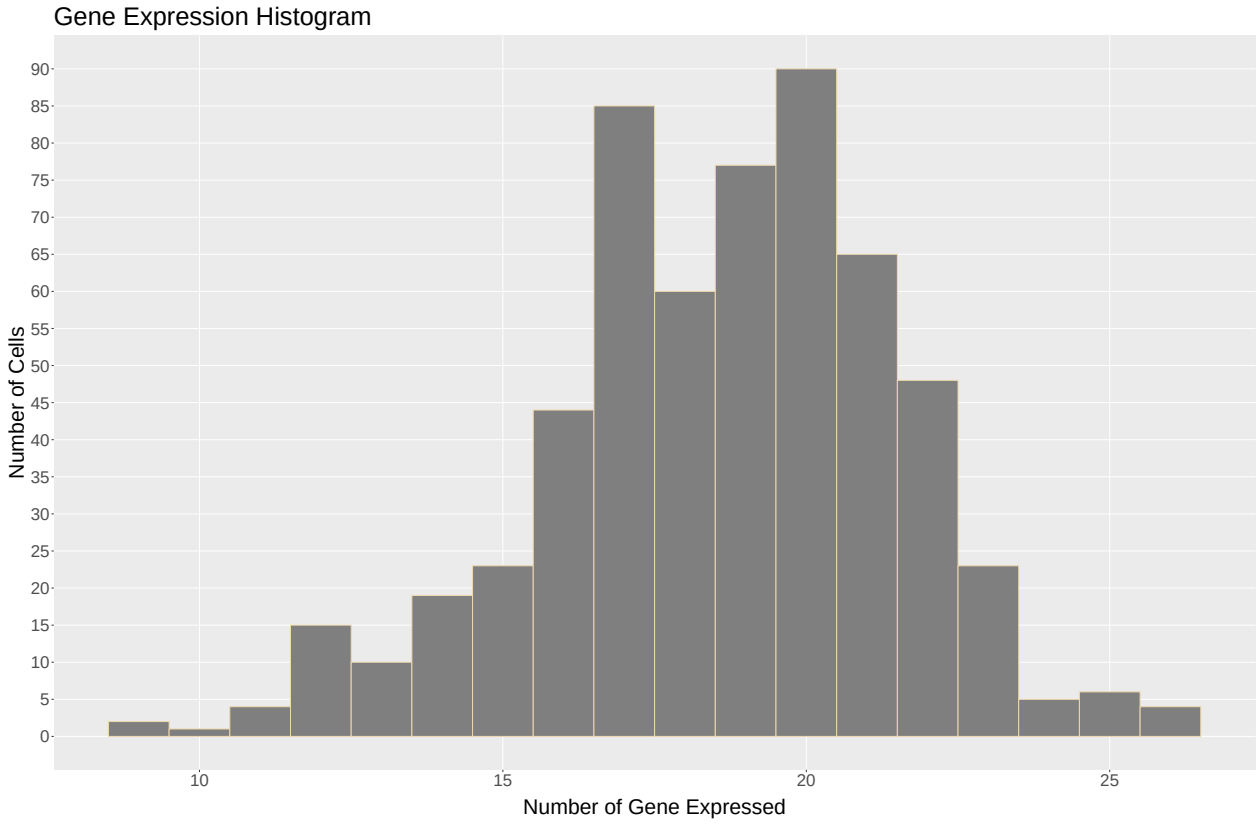
Cross comparison heat map: PD1+/ICOS+ cells with top_20 Tetramer expressing genes



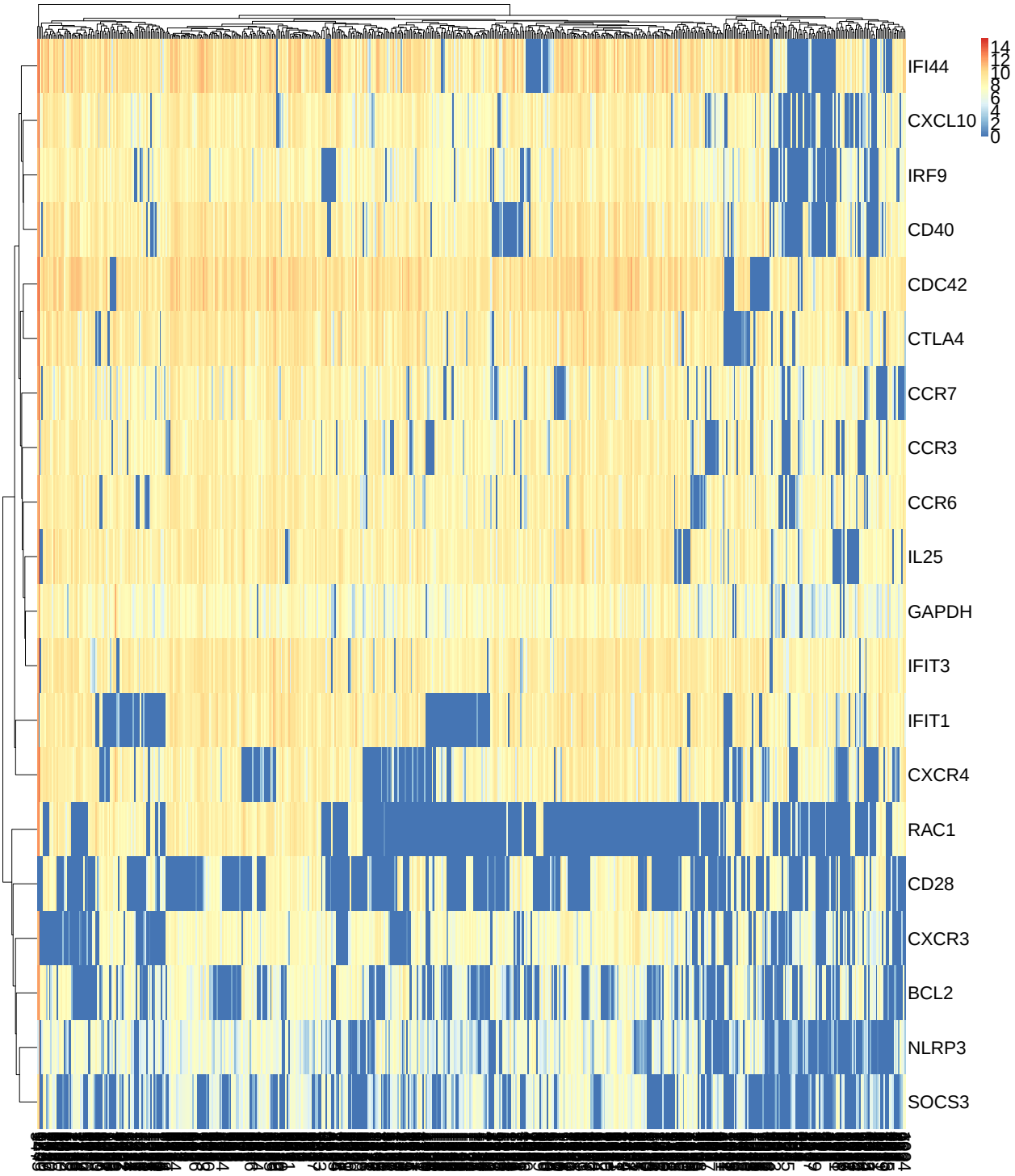
Cross comparison heat map: Tetramer cells with top_20 PD1+/ICOS+ expressing genes



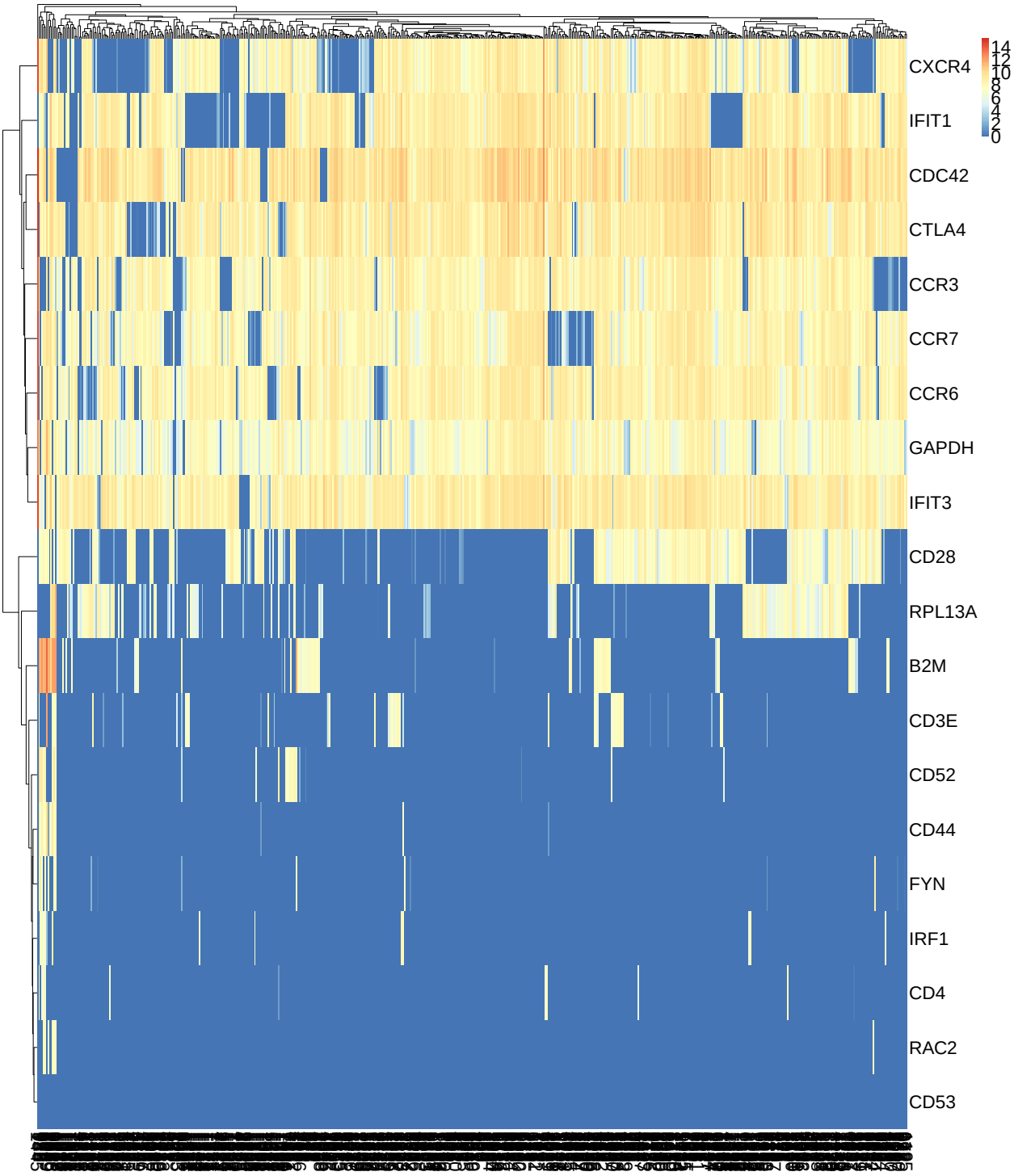
Tetramer cells with Low/High expression level analysis and Cross Comparision



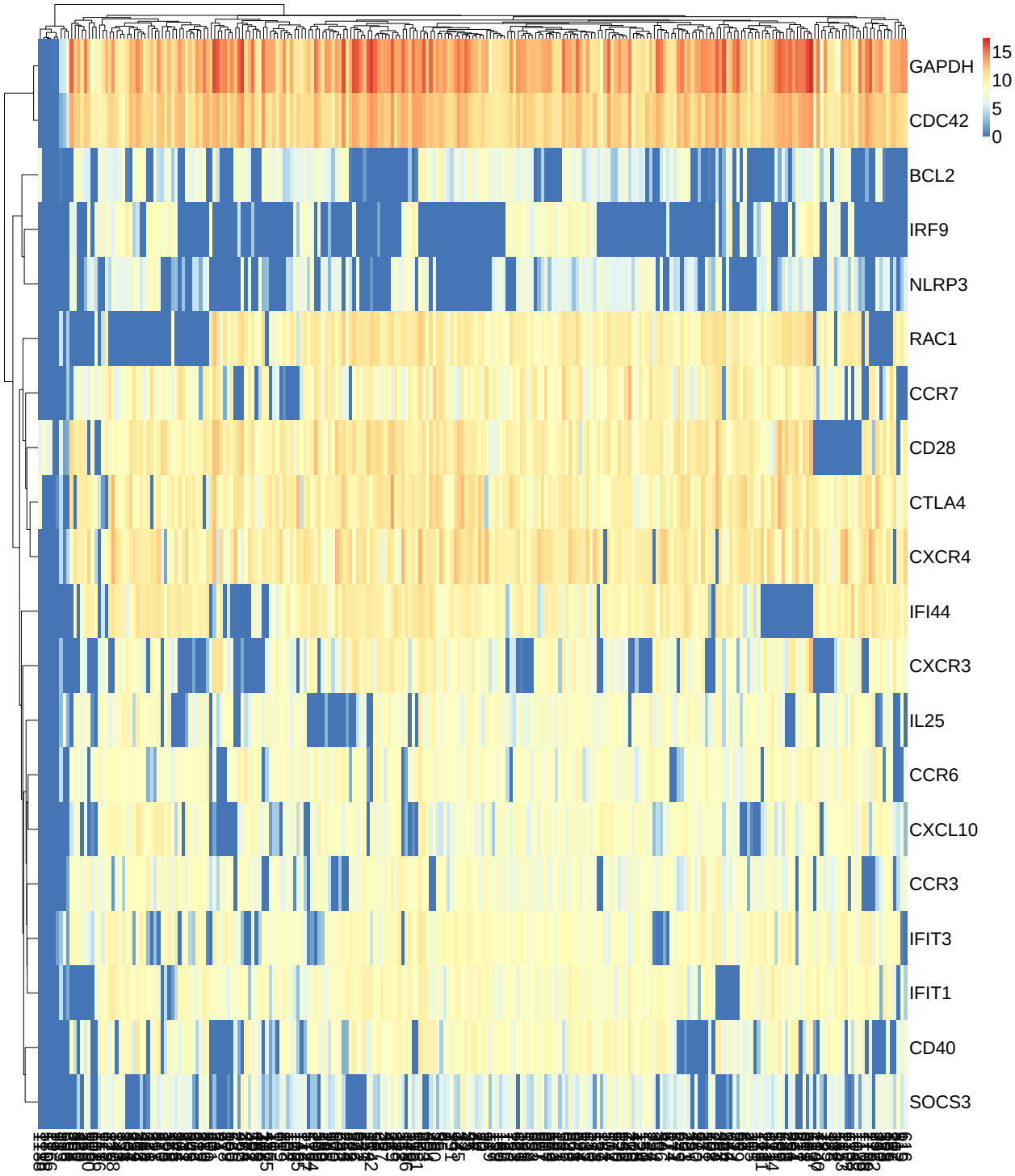

```
[1] "Total number of cells: 581"
[1] "Top 20 expressing genes: "
 [1] "GAPDH"   "IFIT3"   "CDC42"   "CCR6"    "IL25"    "CTLA4"   "CCR7"
 [8] "CCR3"    "CXCL10"  "IFI44"   "IRF9"    "CD40"    "IFIT1"   "CXCR4"
[15] "NLRP3"   "CXCR3"   "BCL2"    "SOCS3"   "CD28"    "RAC1"
```



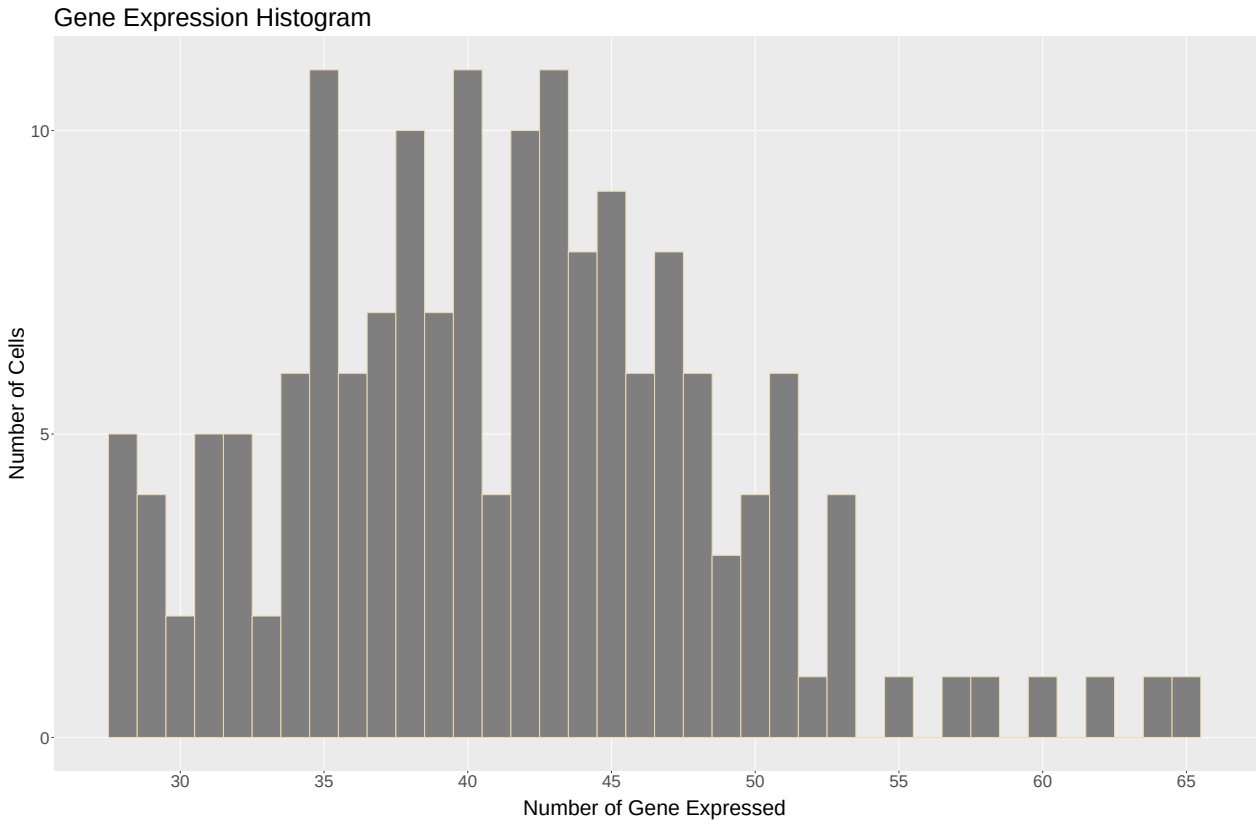
[1] "Specific analysis for cells with low expression level"



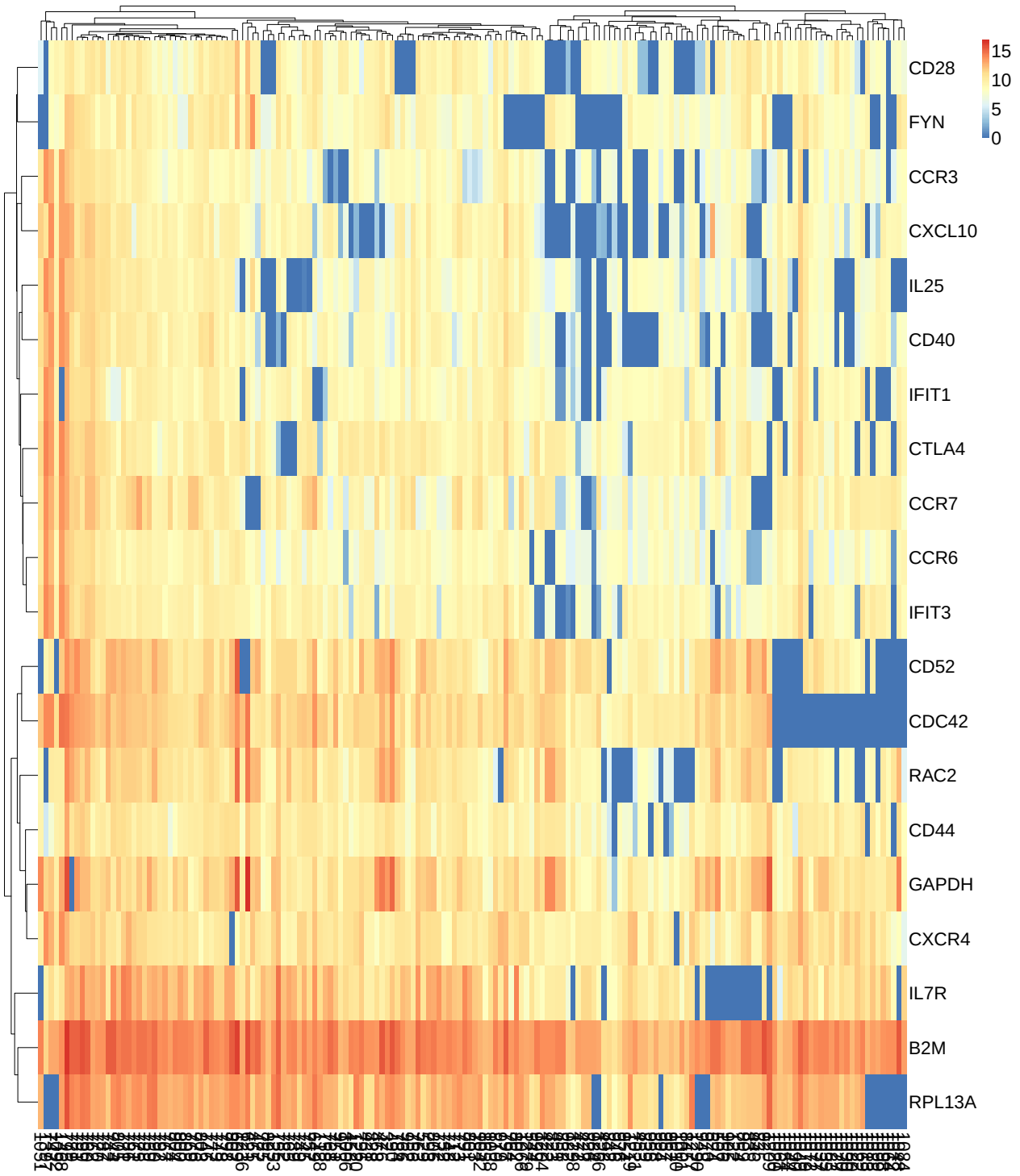
[1] "Cross Comparision: Low Expression Tetramer cells with Top 20 PD1/ICOS genes"



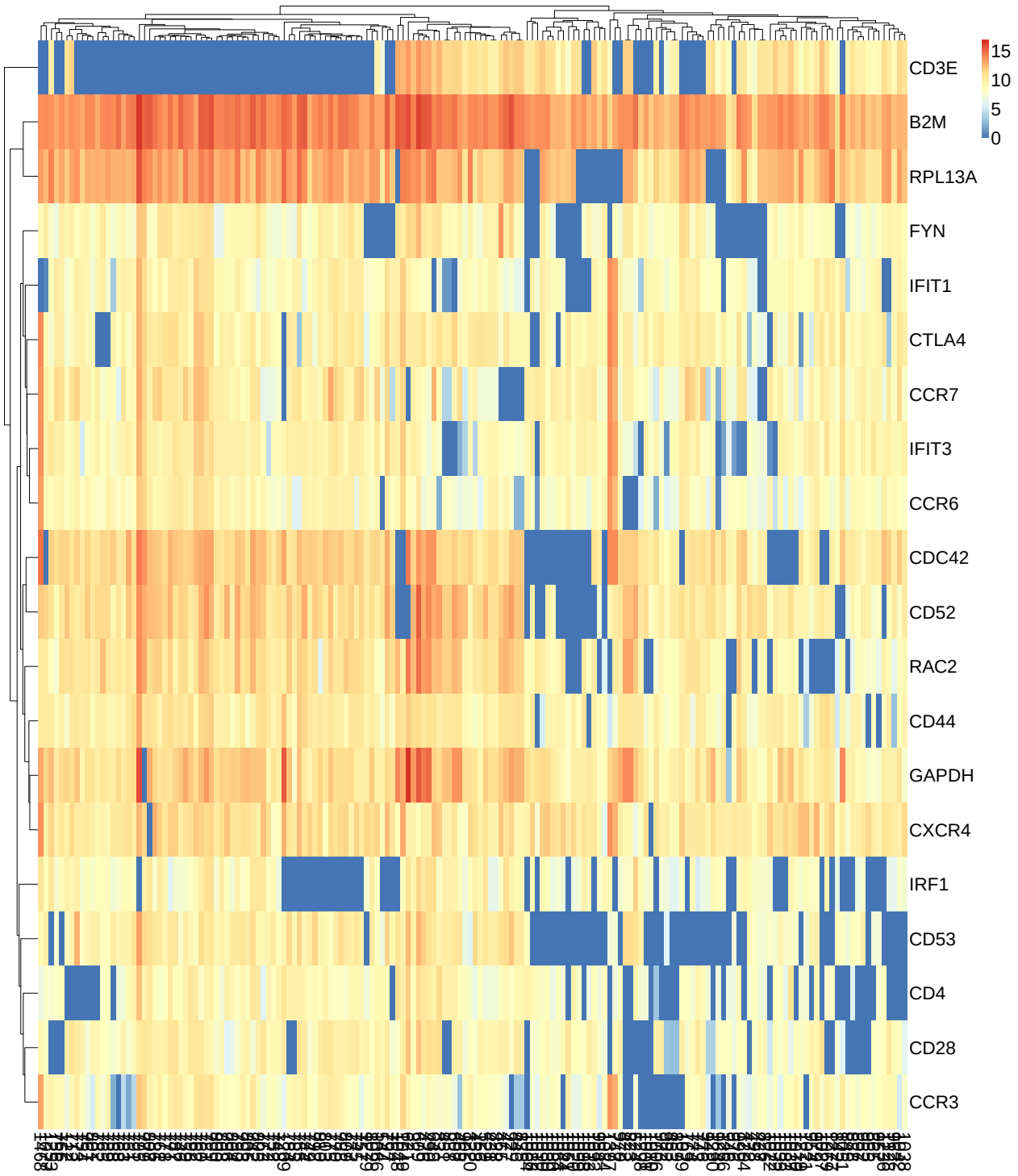
[1] "Cross Comparision: PD1/ICOS cells with Top 20 Low Expression Tetramer genes"



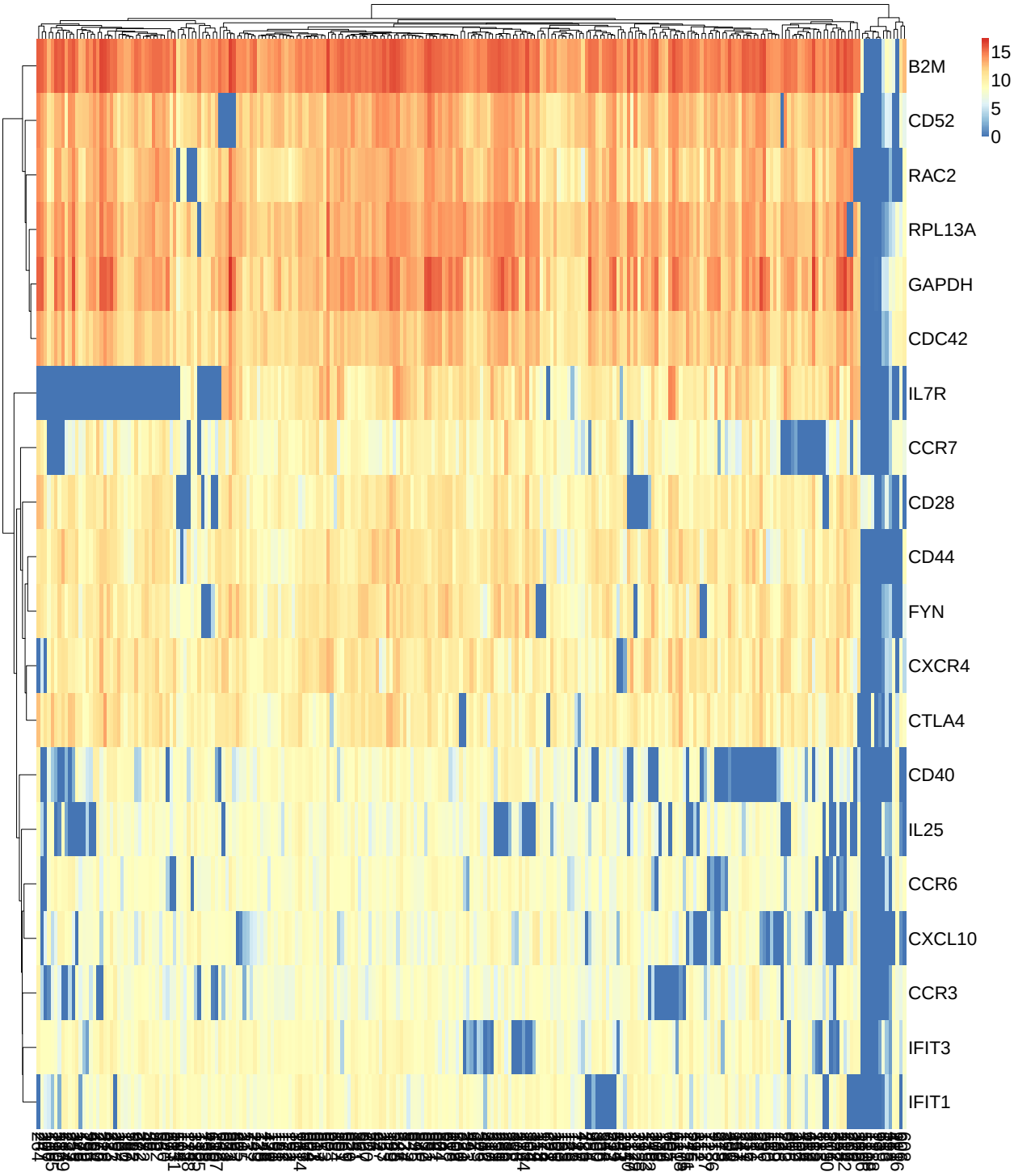

```
[1] "Total number of cells: 168"
[1] "Top 20 expressing genes: "
 [1] "B2M"    "GAPDH"  "CXCR4"  "CCR6"   "CD44"   "IFIT3"  "CTLA4"
 [8] "CCR7"   "IFIT1"  "IL7R"   "RPL13A" "CD52"   "RAC2"   "CCR3"
[15] "IL25"   "CD28"   "CDC42"  "CD40"   "CXCL10" "FYN"
```



[1] "Specific analysis for cells with high expression level"



[1] "Cross Comparision: High Expression Tetramer cells with Top 20 PD1/ICOS genes"



[1] "Cross Comparision: PD1/ICOS cells with Top 20 high Expression Tetramer genes"