

AML1

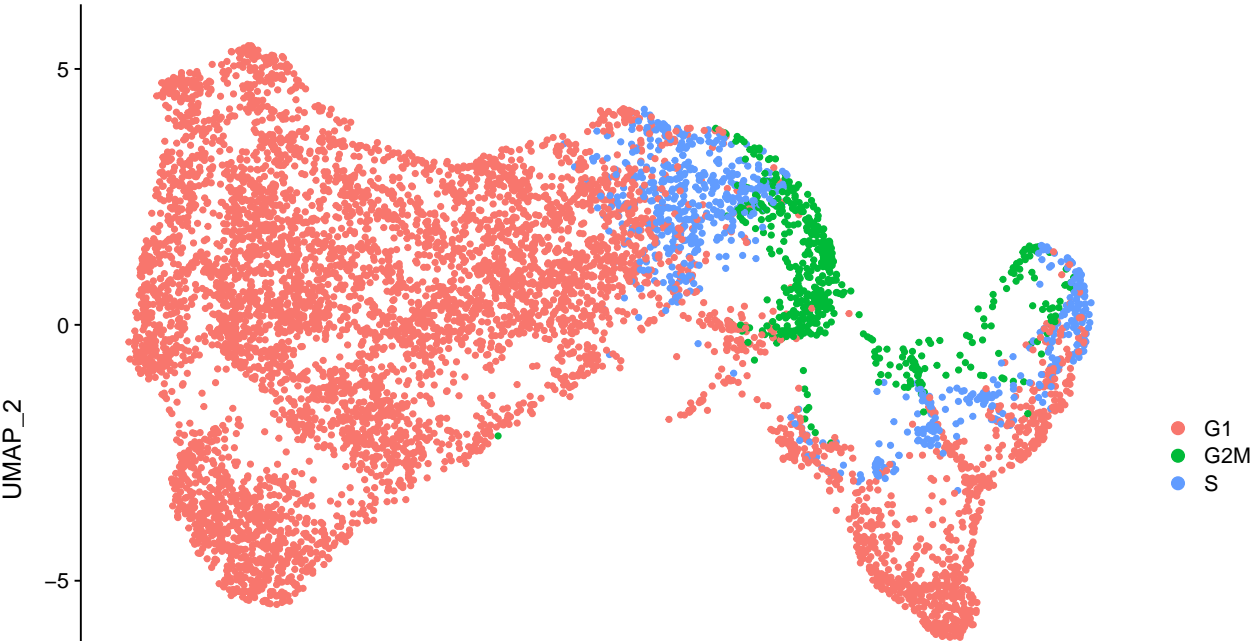
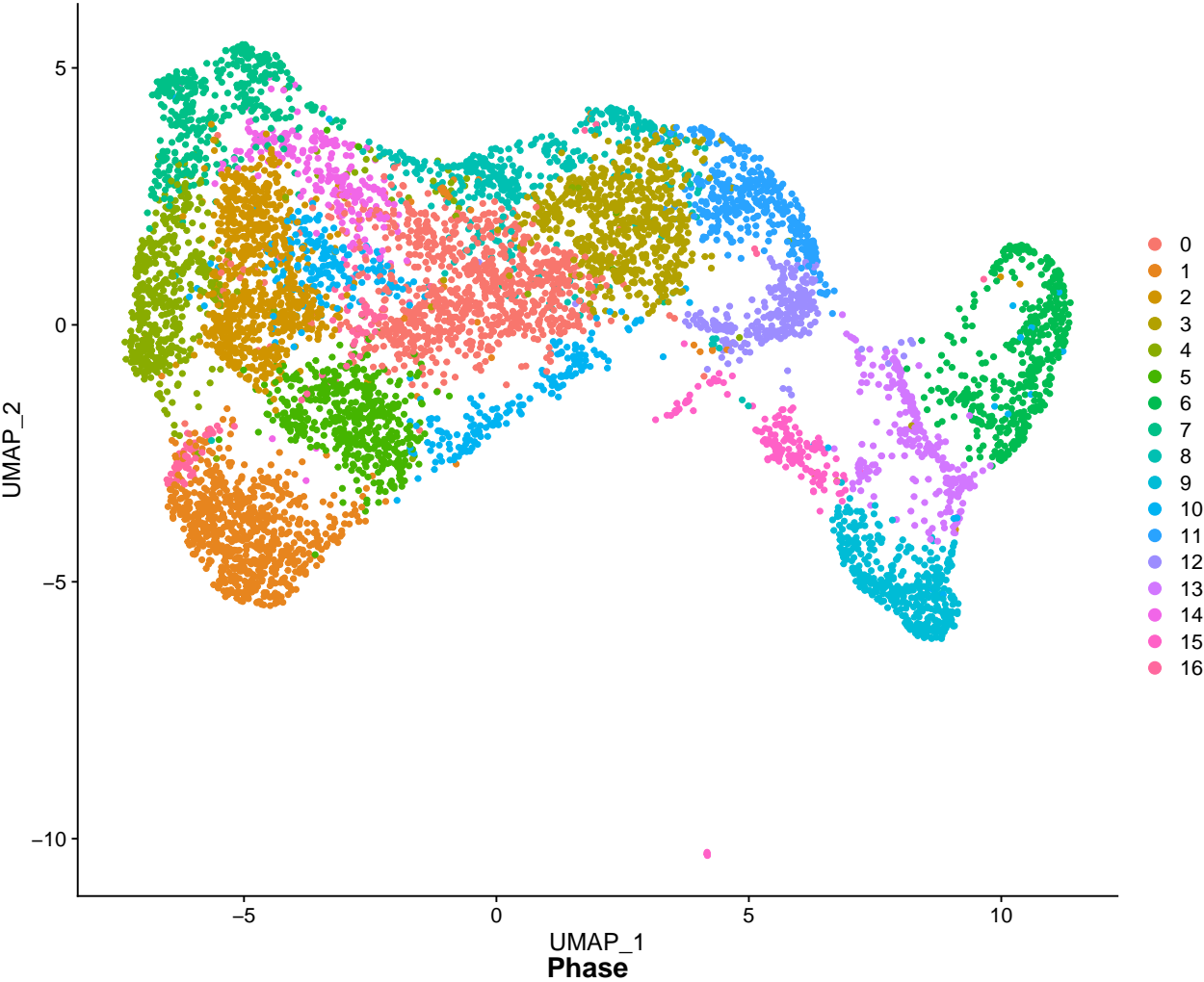
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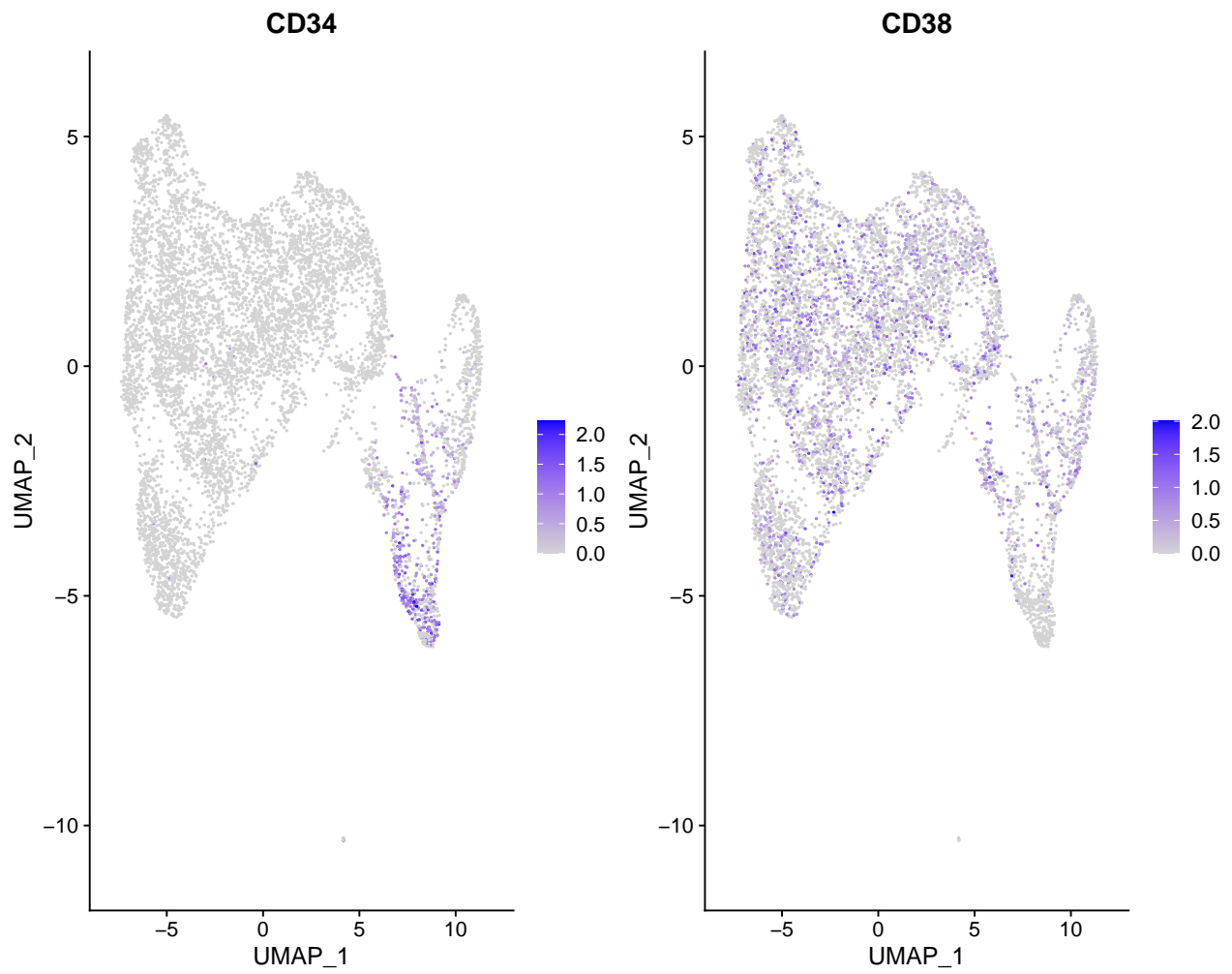
2022-02-08 15:31:19

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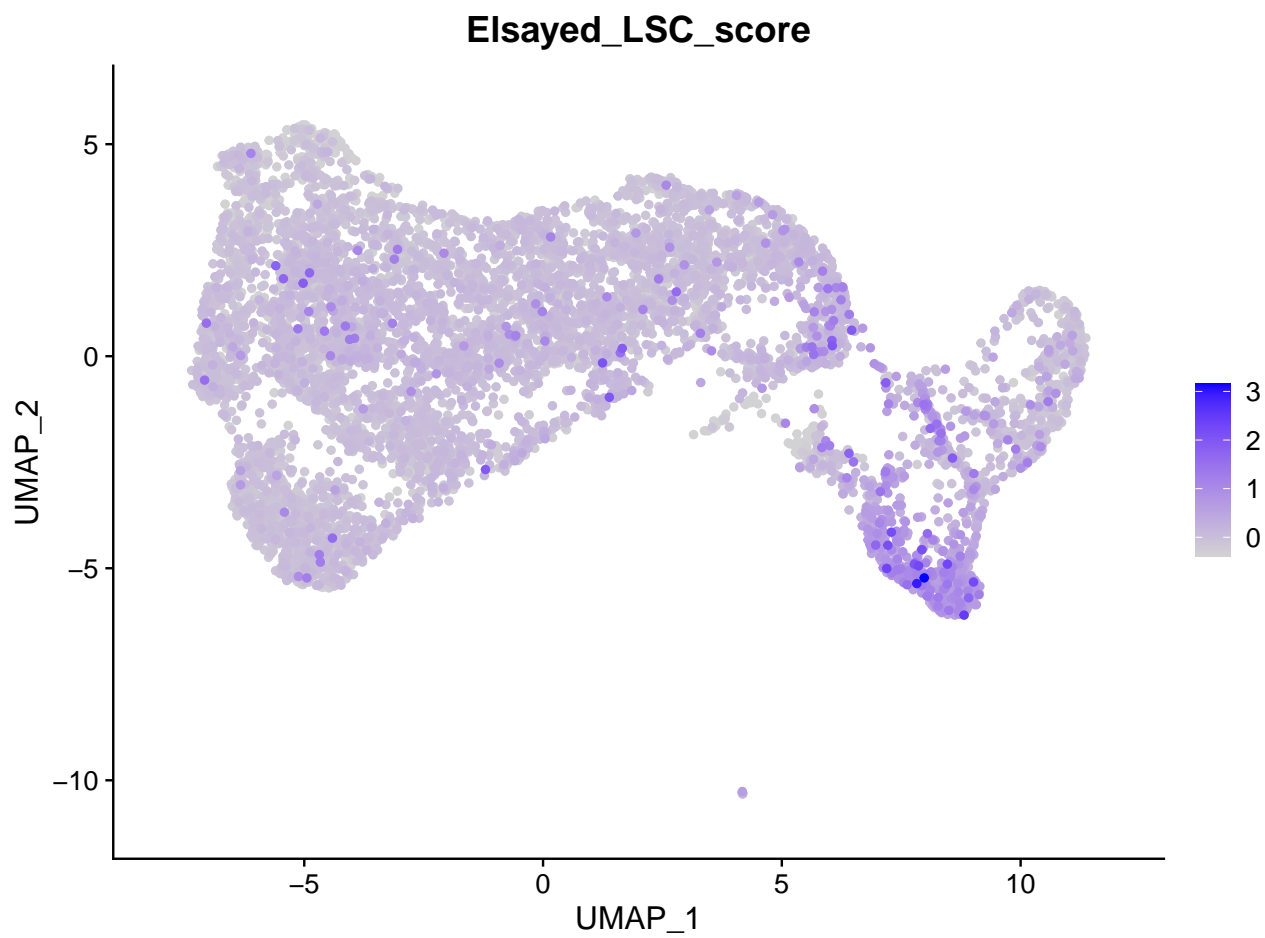
1. Put together both 34 and 38 libraries. Apply QC and dimensionality reduction.

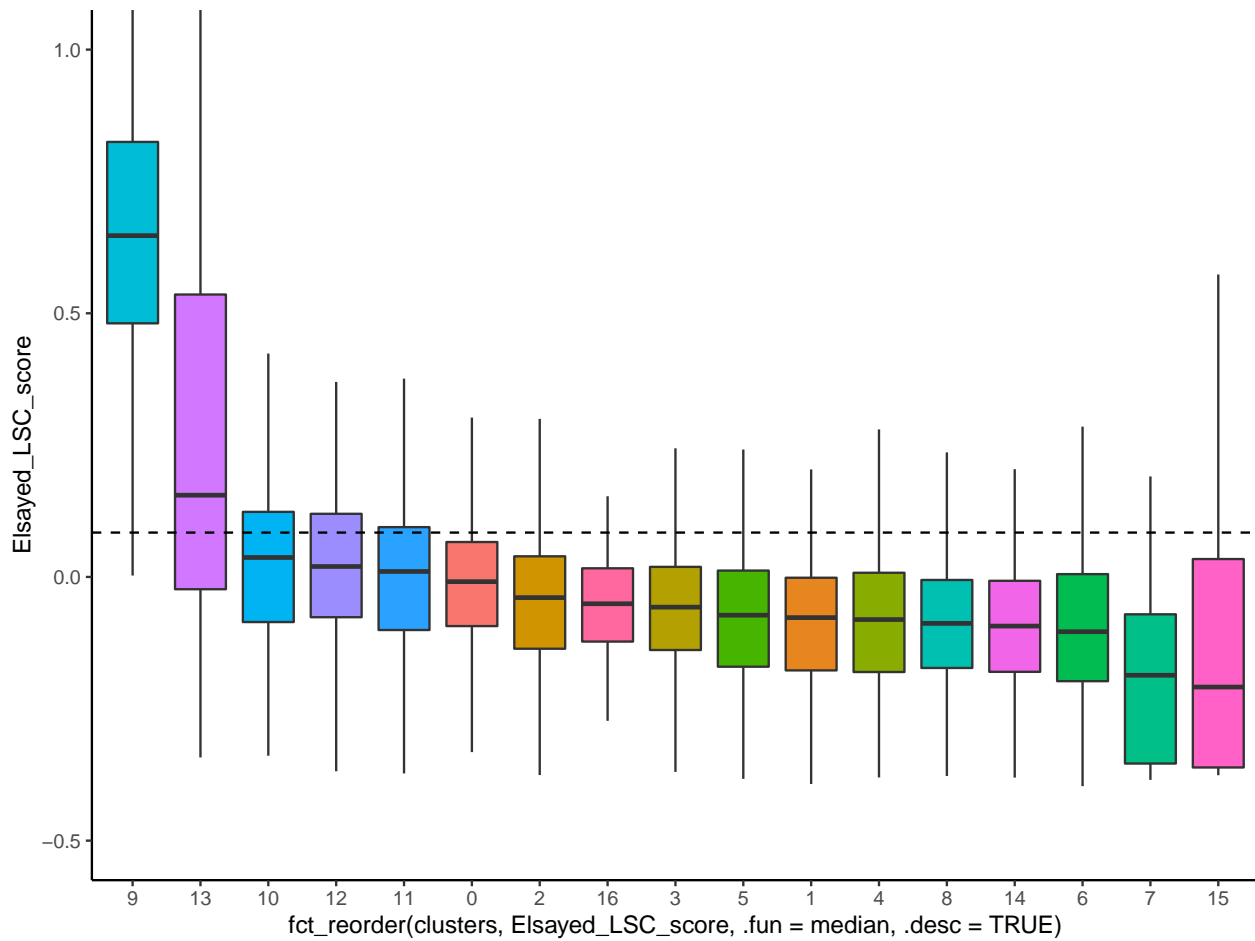




2. Get the LSC6 score

```
## [1] "CD34" "SPINK2" "SOCS2" "FAM30A" "ADGRG1" "DNMT3B"
```

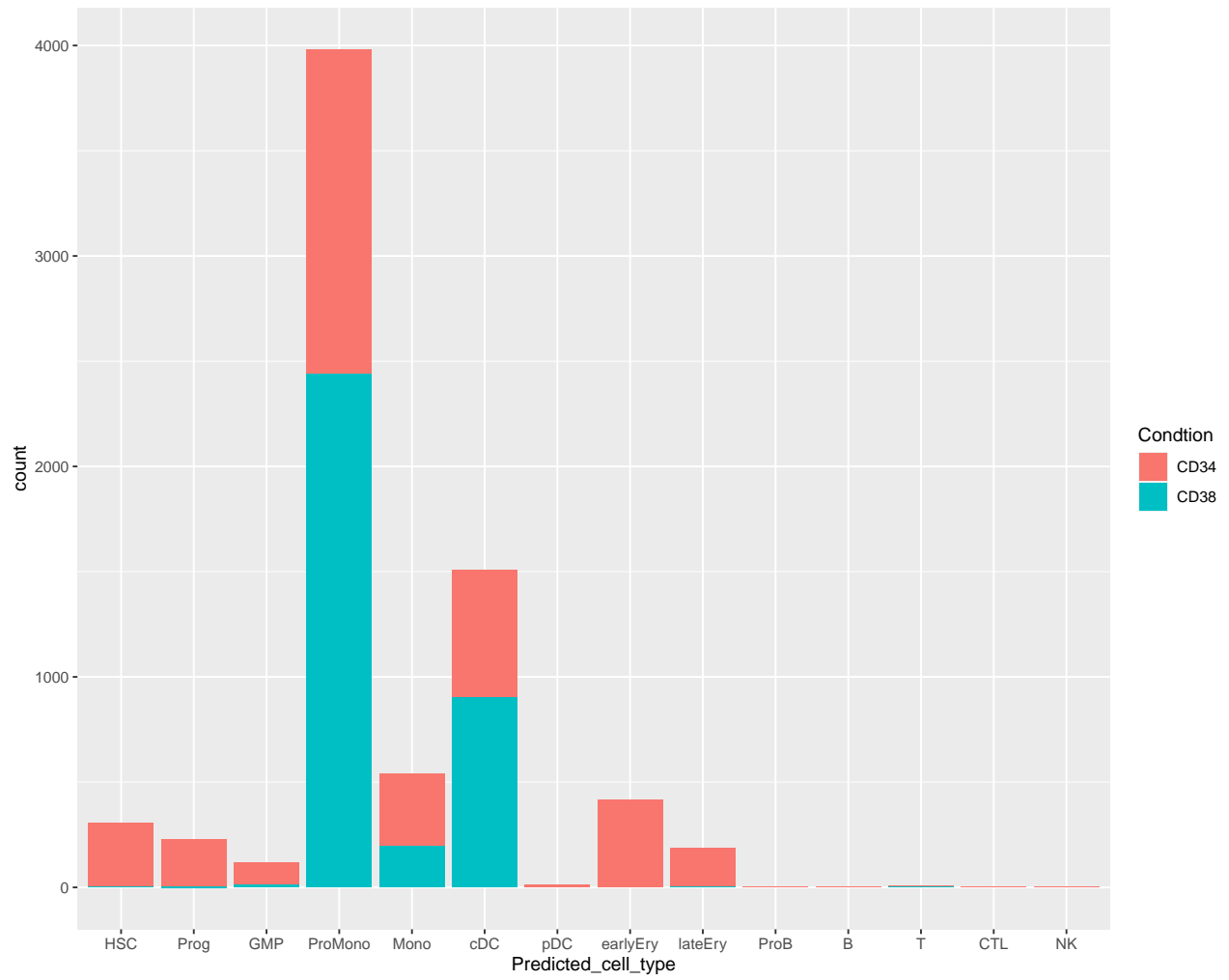


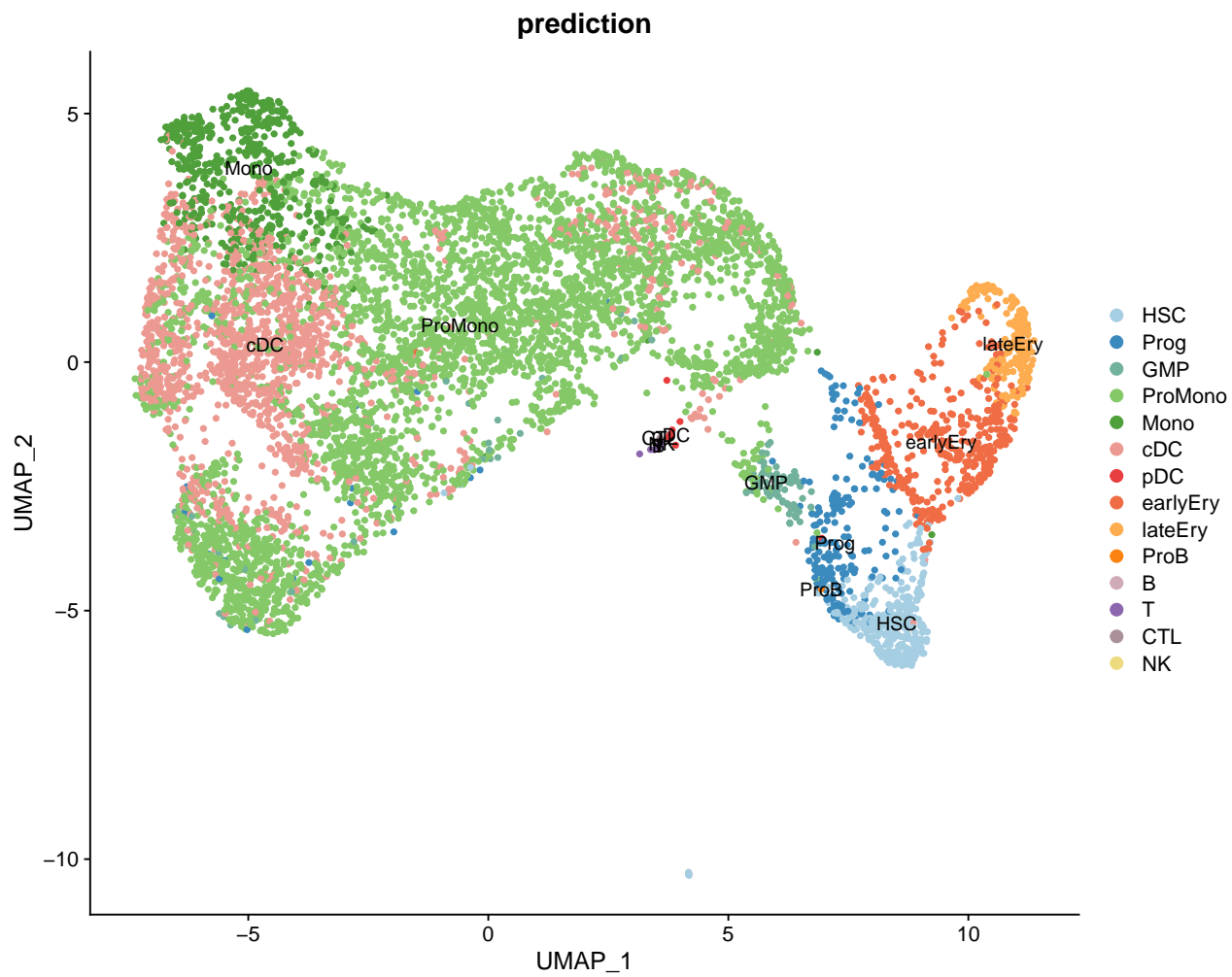


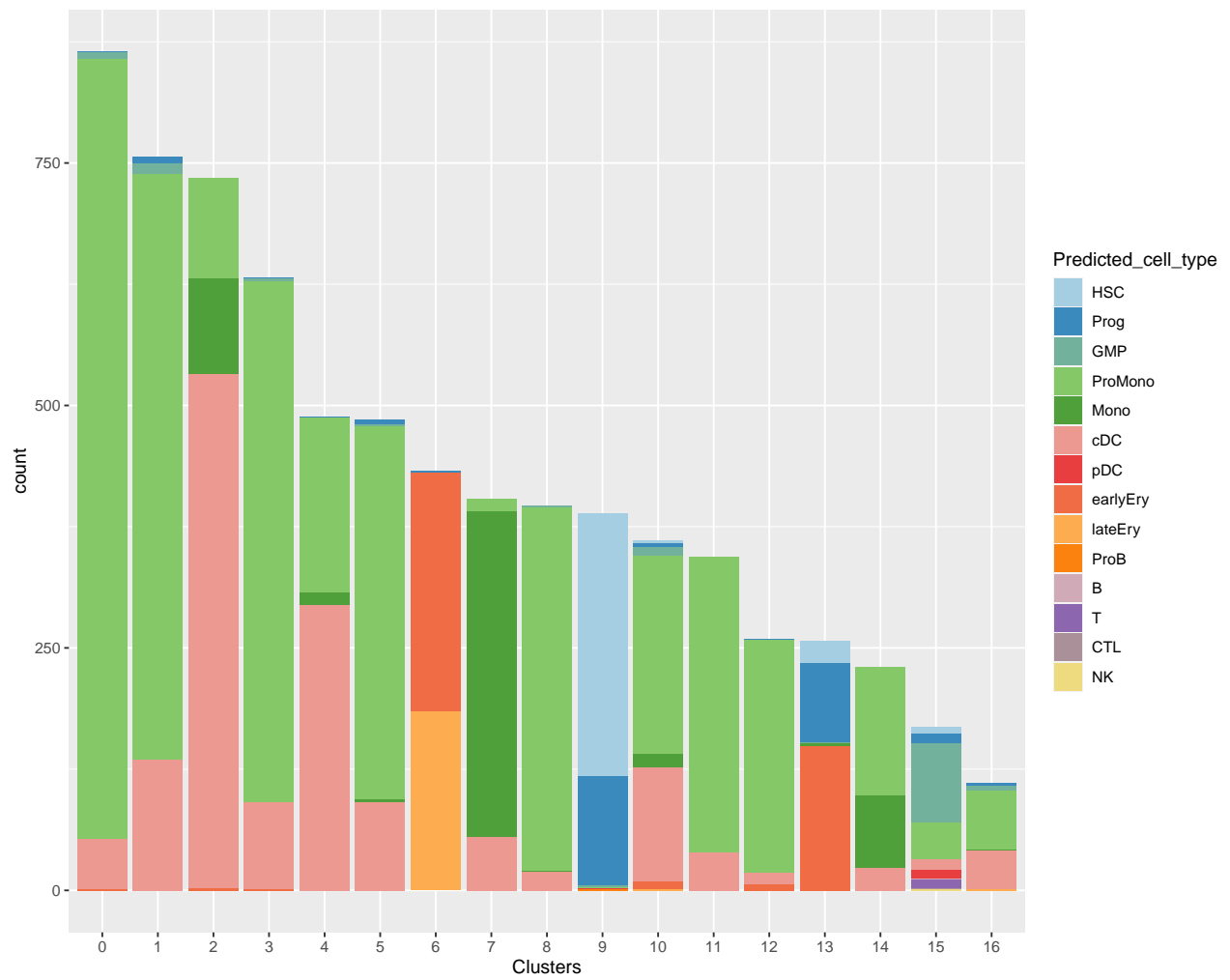
3. Predict the class of the cells using the markers and the expression of the BM cells form Van_Galen paper

```
## Performing PCA on the provided reference using 1821 features as input.
## Projecting cell embeddings
## Finding neighborhoods
## Finding anchors
## Found 3478 anchors
## Filtering anchors
## Retained 2498 anchors
## Finding integration vectors
## Finding integration vector weights
## Predicting cell labels
##
##           HSC Prog  GMP ProMono Mono  cDC  pDC earlyEry lateEry ProB  B Plasma
## CD34    303   224  110   1542  347  607   10    414   184    1    1    0
## CD38     1     5   11   2440  194  902    0     0     2    0    0    0
```

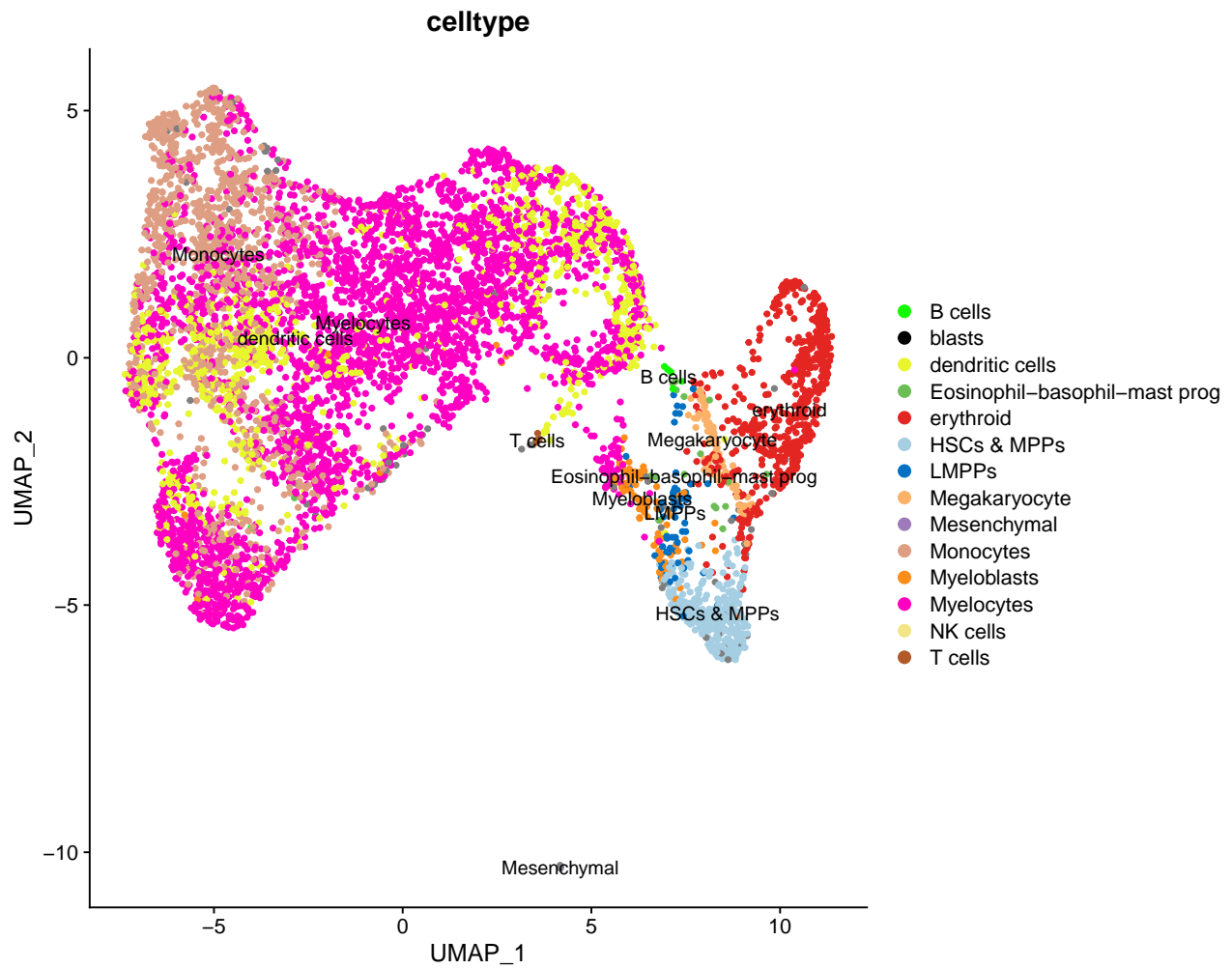
```
##
##           T   CTL   NK
##   CD34     5     1     1
##   CD38     4     0     0
```

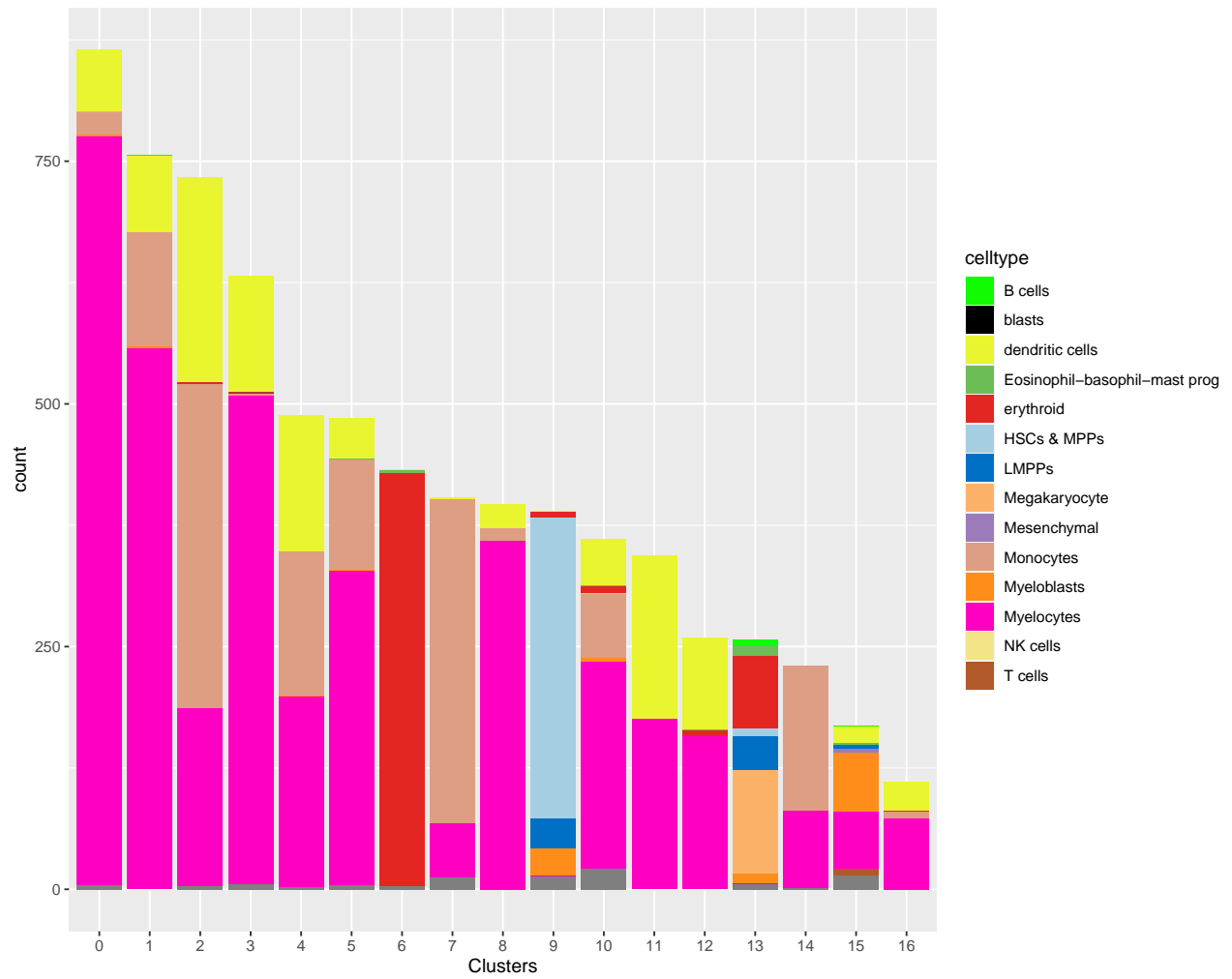






4. Project the predictions from Velten onto our UMAP





Cluster 9 seems the most likely to be enriched in LSC