

# AML11\_Dx

jtrincado

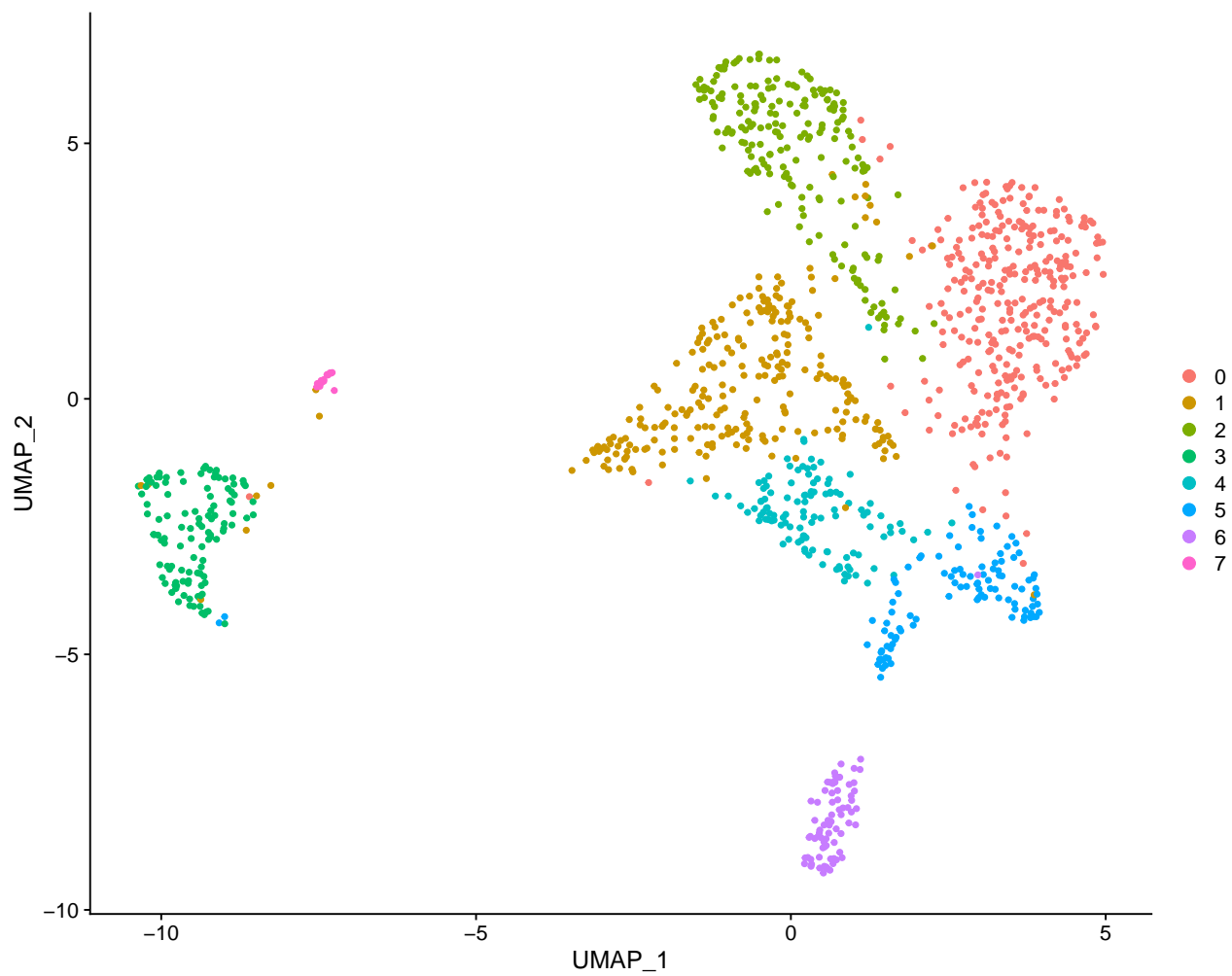
2022-02-08 16:12:34

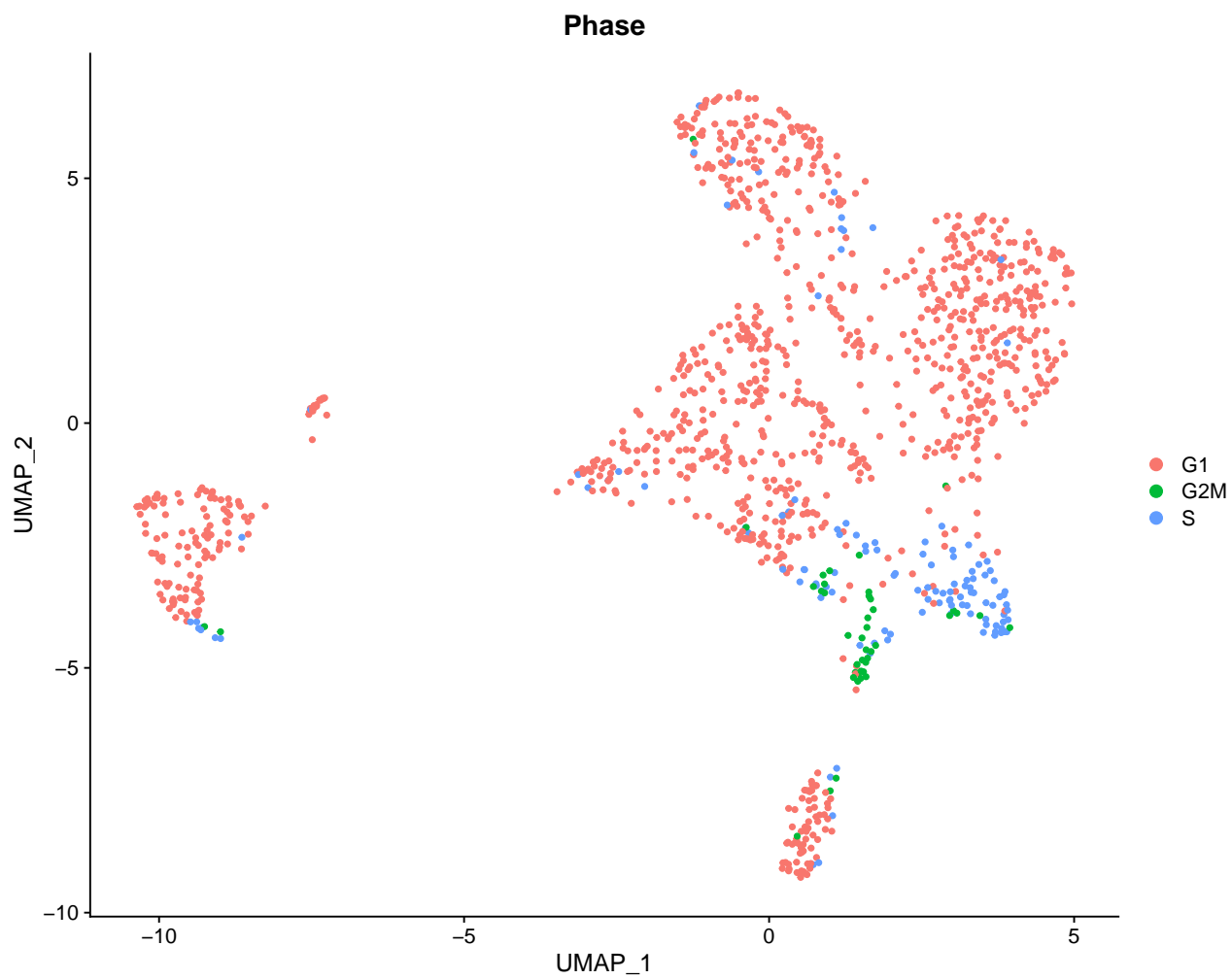
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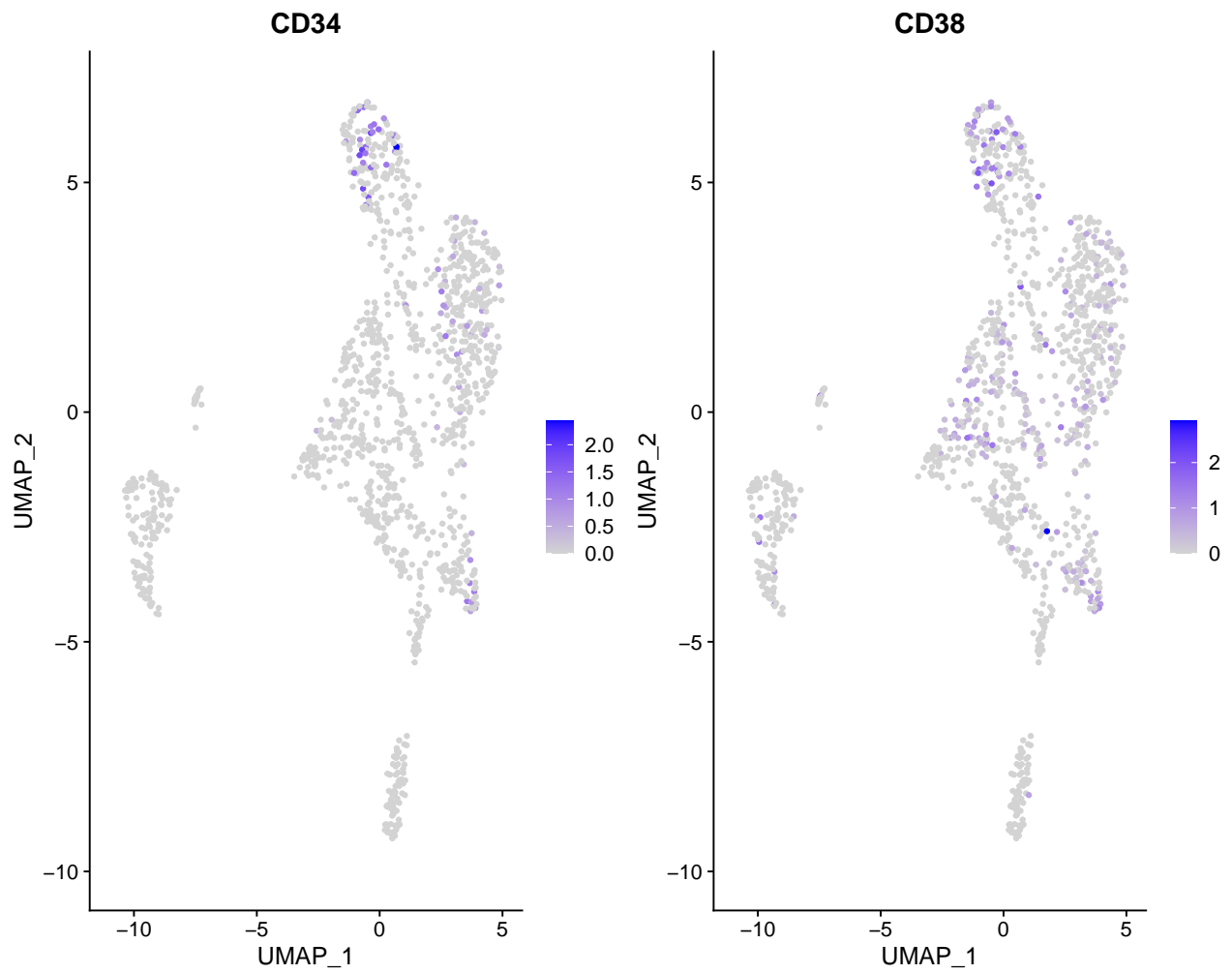
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## 1. Put together both 34 and 38 libraries. Apply QC and dimensionality reduction.

```
## Warning: The default method for RunUMAP has changed from calling Python UMAP via reticulate to the R  
## To use Python UMAP via reticulate, set umap.method to 'umap-learn' and metric to 'correlation'  
## This message will be shown once per session
```

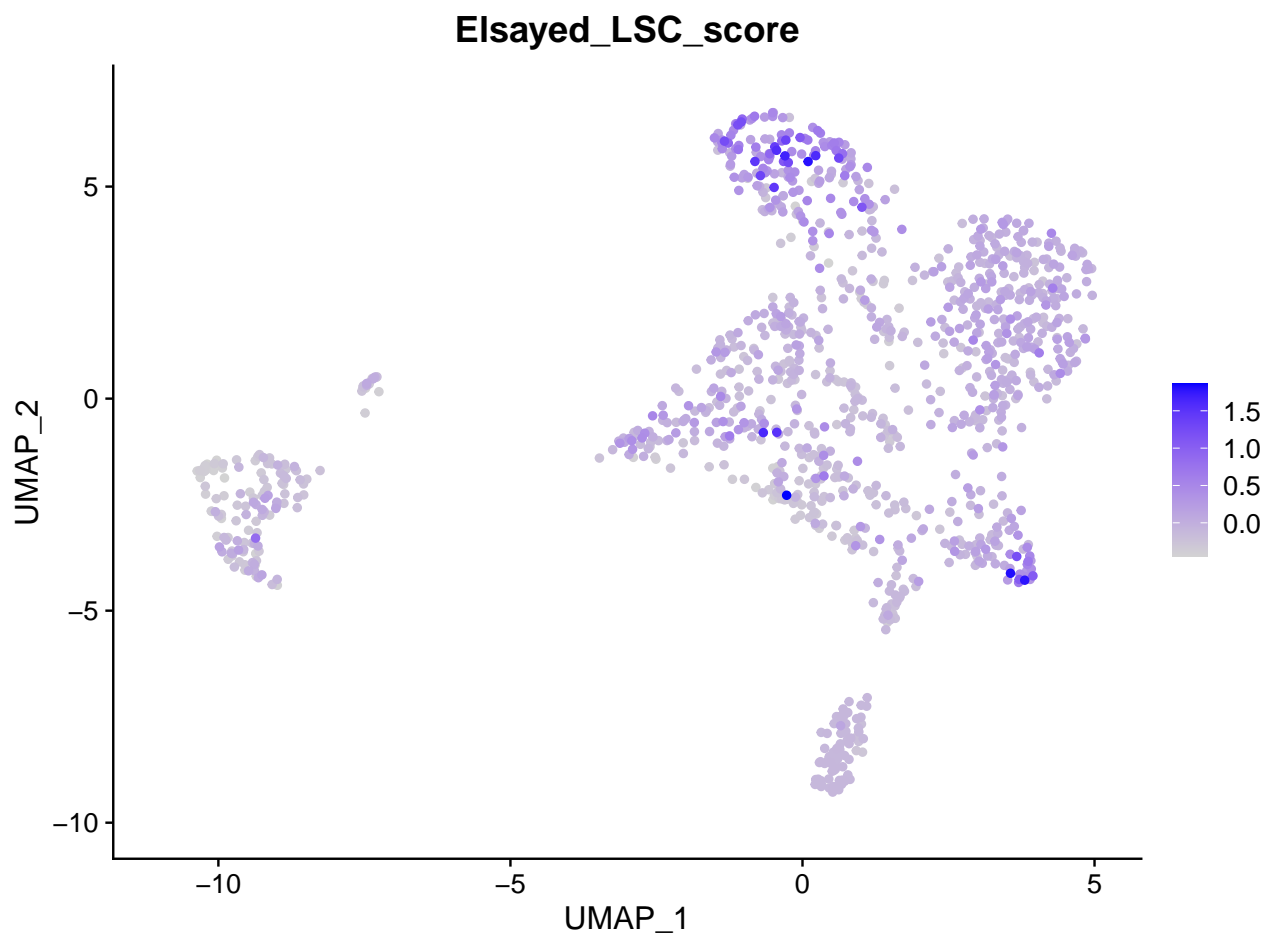


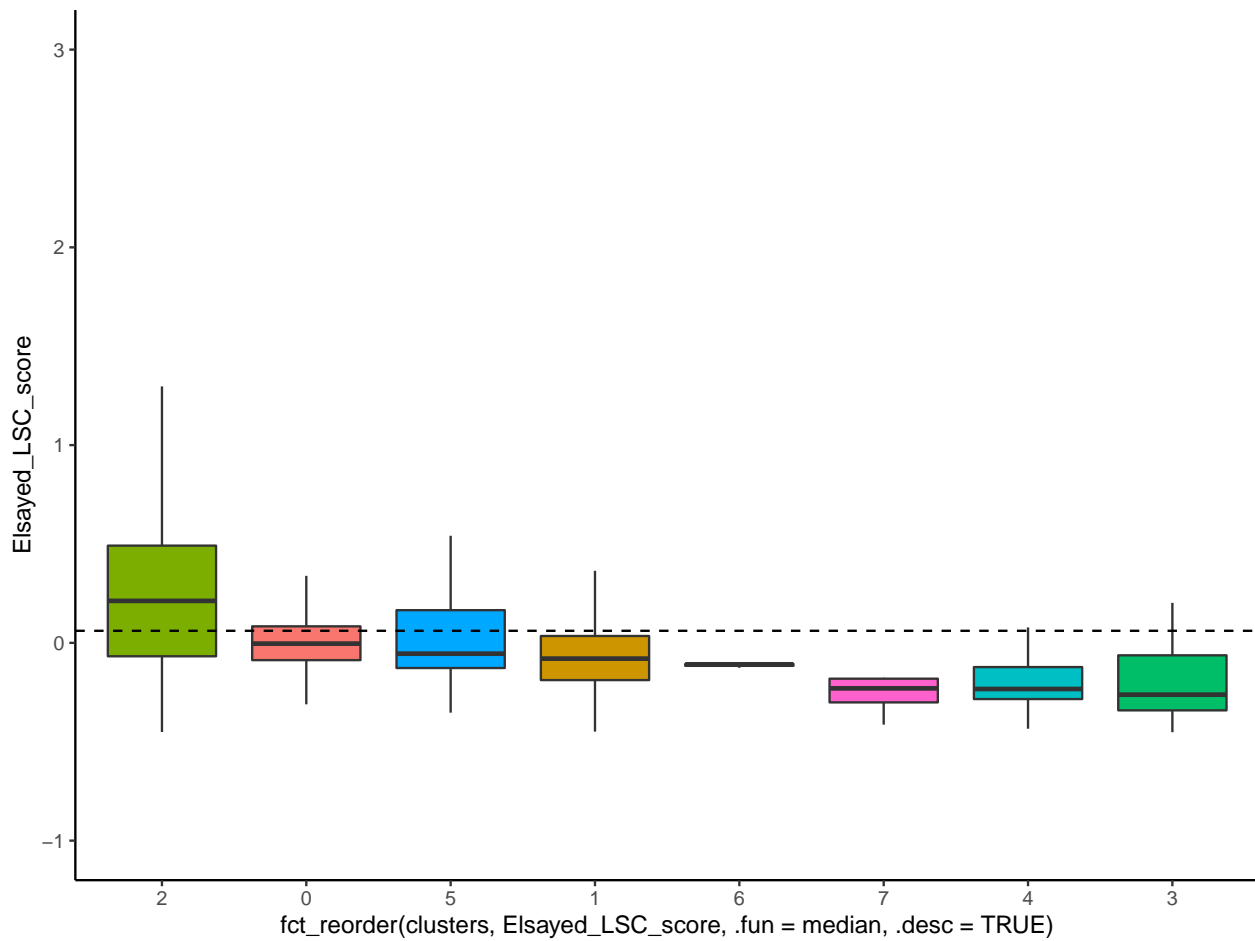




## 2. Get the LSC6 score

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



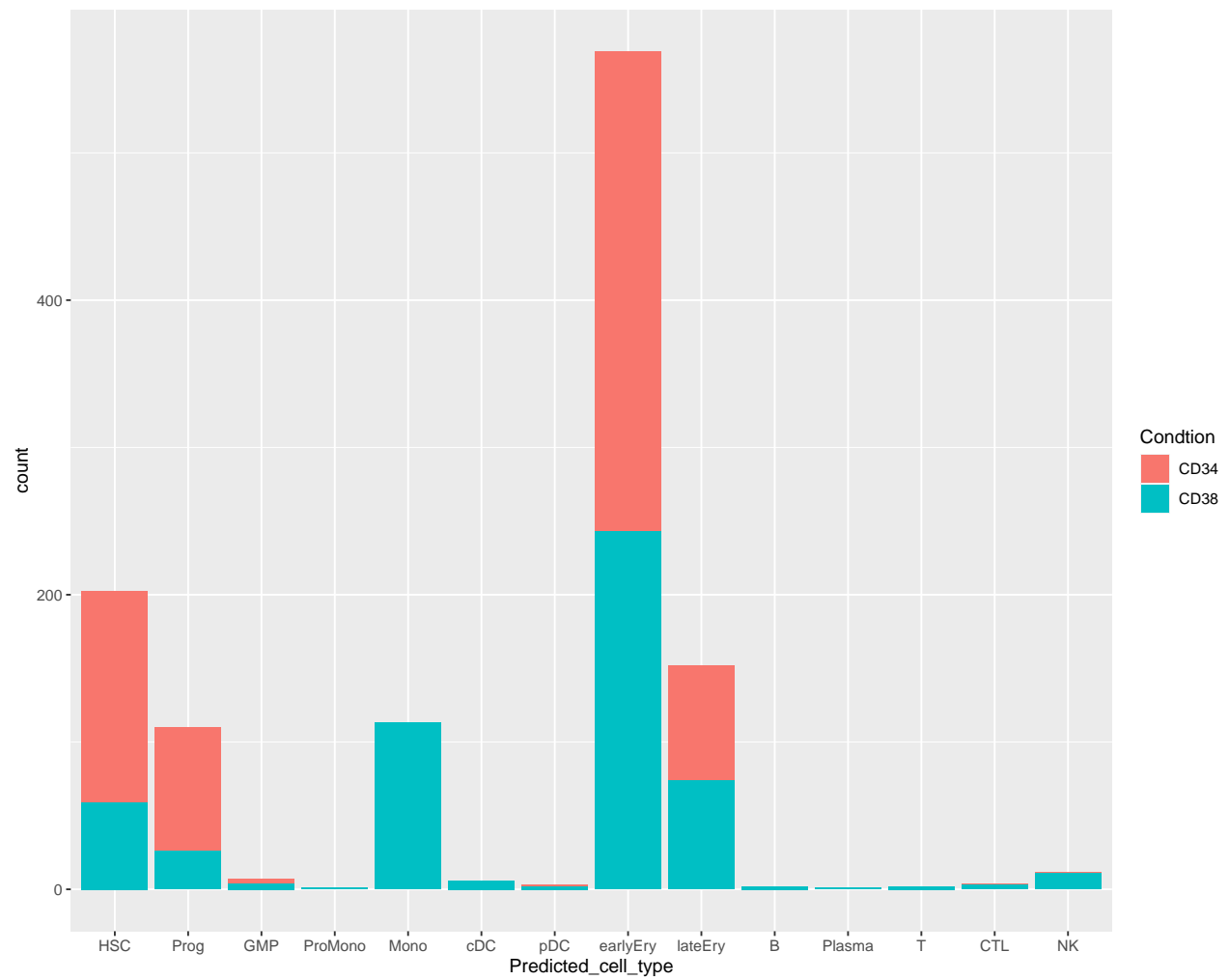


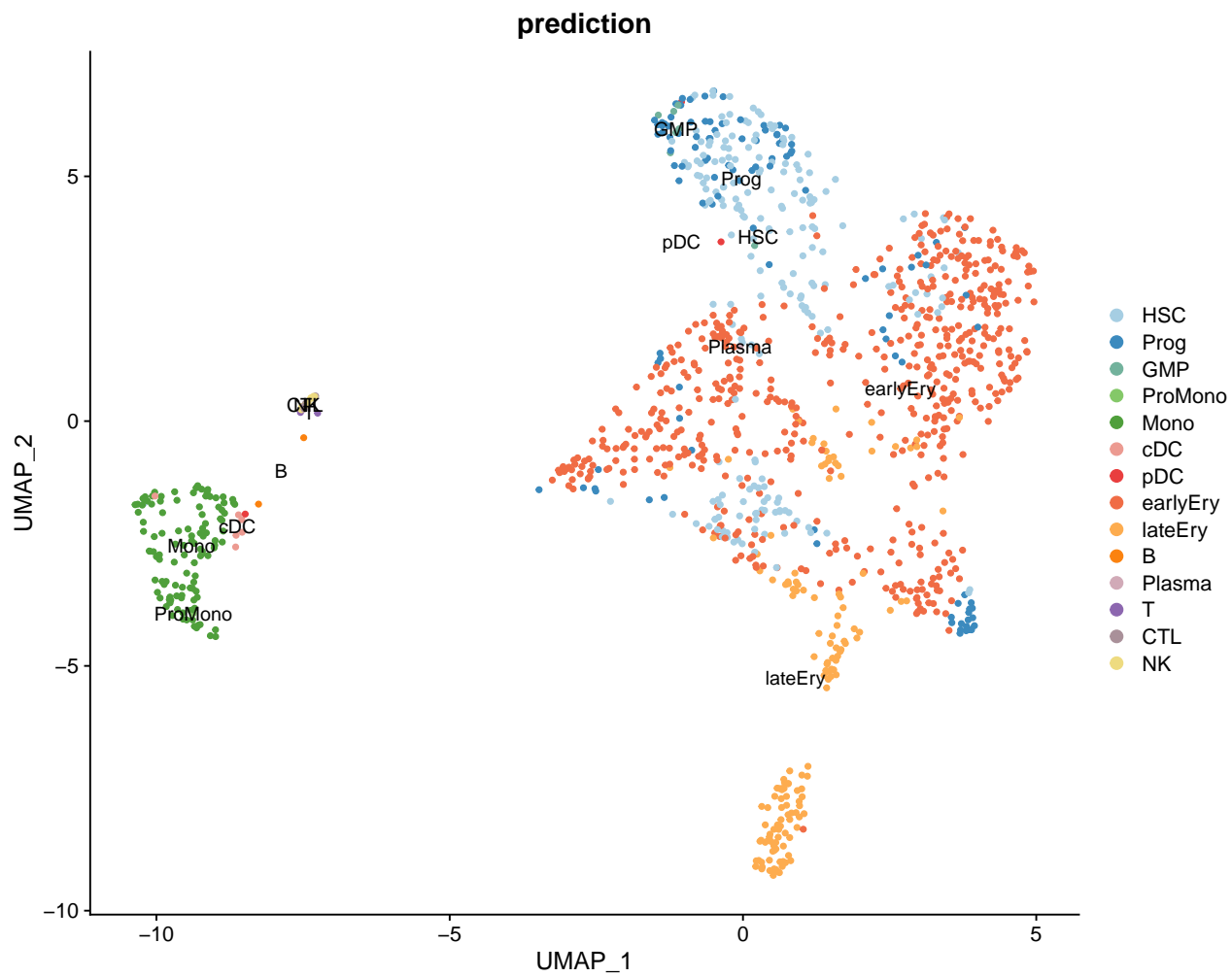
### 3. Predict the class of the cells using the markers and the expression of the BM cells form Van\_Galen paper

```
## Performing PCA on the provided reference using 1821 features as input.
## Projecting cell embeddings
## Finding neighborhoods
## Finding anchors
## Found 1317 anchors
## Filtering anchors
## Retained 1057 anchors
## Finding integration vectors
## Finding integration vector weights
## Predicting cell labels
##
```

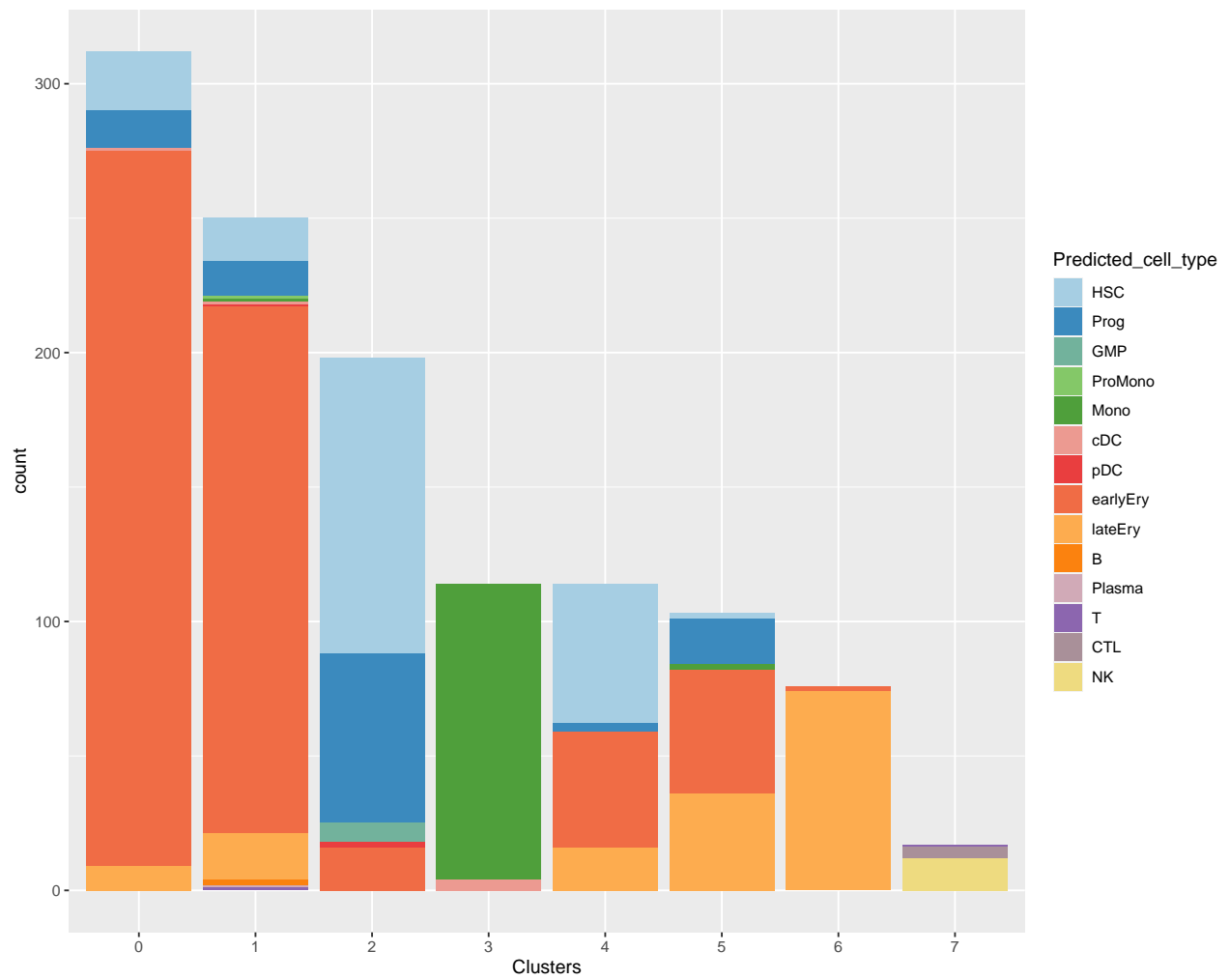
	HSC	Prog	GMP	ProMono	Mono	cDC	pDC	earlyEry	lateEry	ProB	B	Plasma	T
CD34	143	84	3	0	0	0	1	326	78	0	0	0	0
CD38	59	26	4	1	113	6	2	243	74	0	2	1	2

```
##
##      CTL  NK
##  CD34   1   1
##  CD38   3  11
```

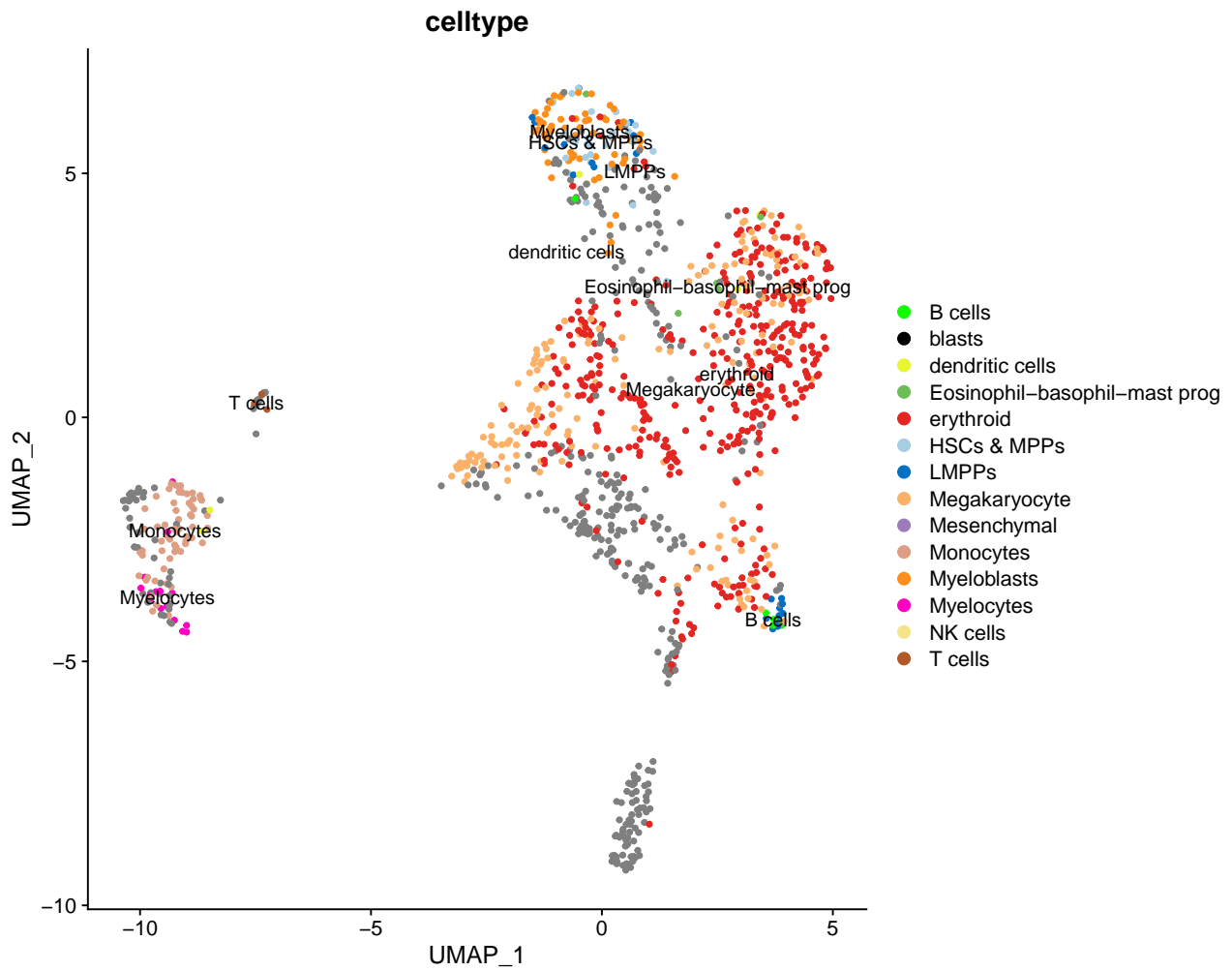


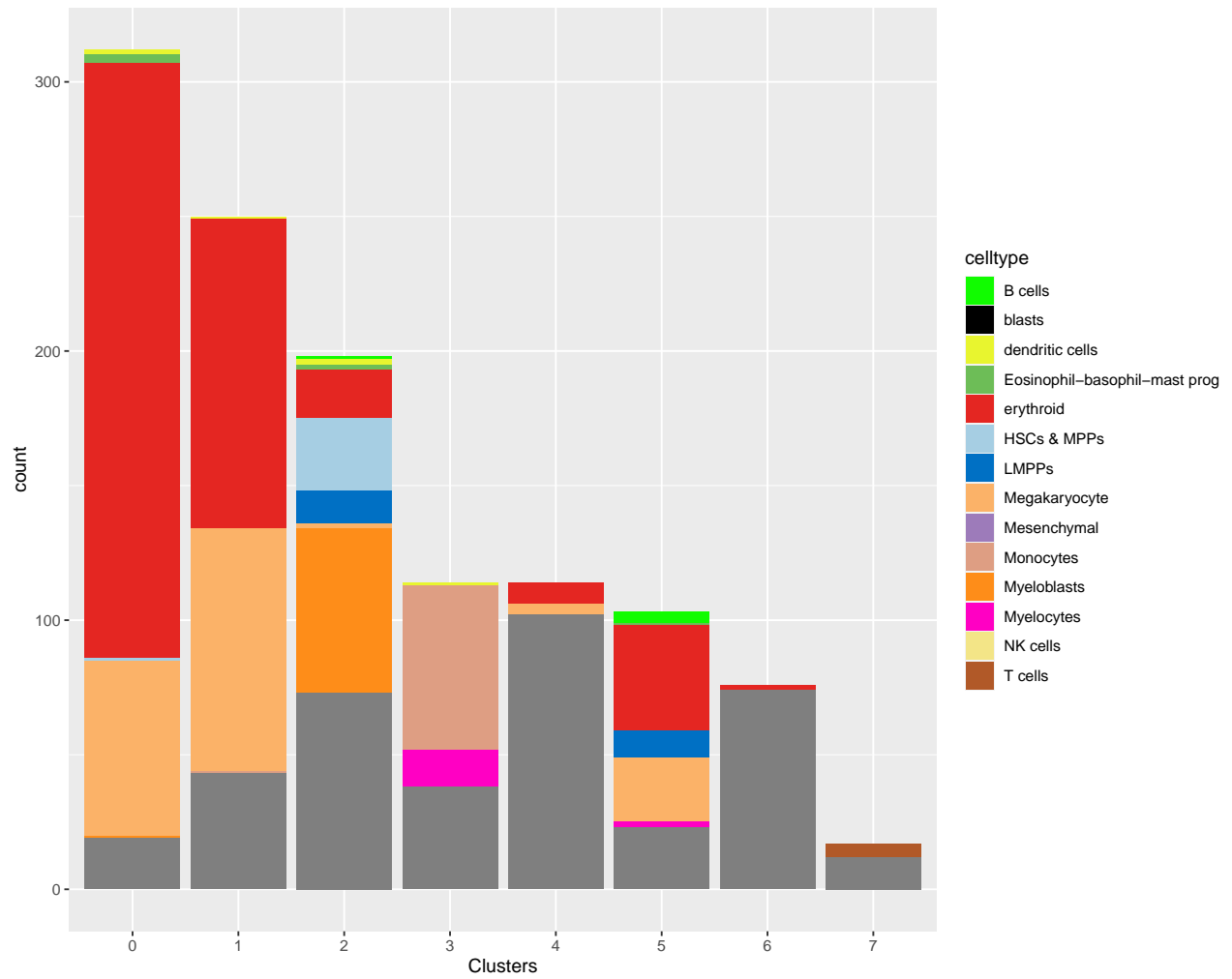






#### 4. Project the predictions from Velten onto our UMAP





Cluster 2 seems the one with greater LSC6 score