

# AML11\_Rx

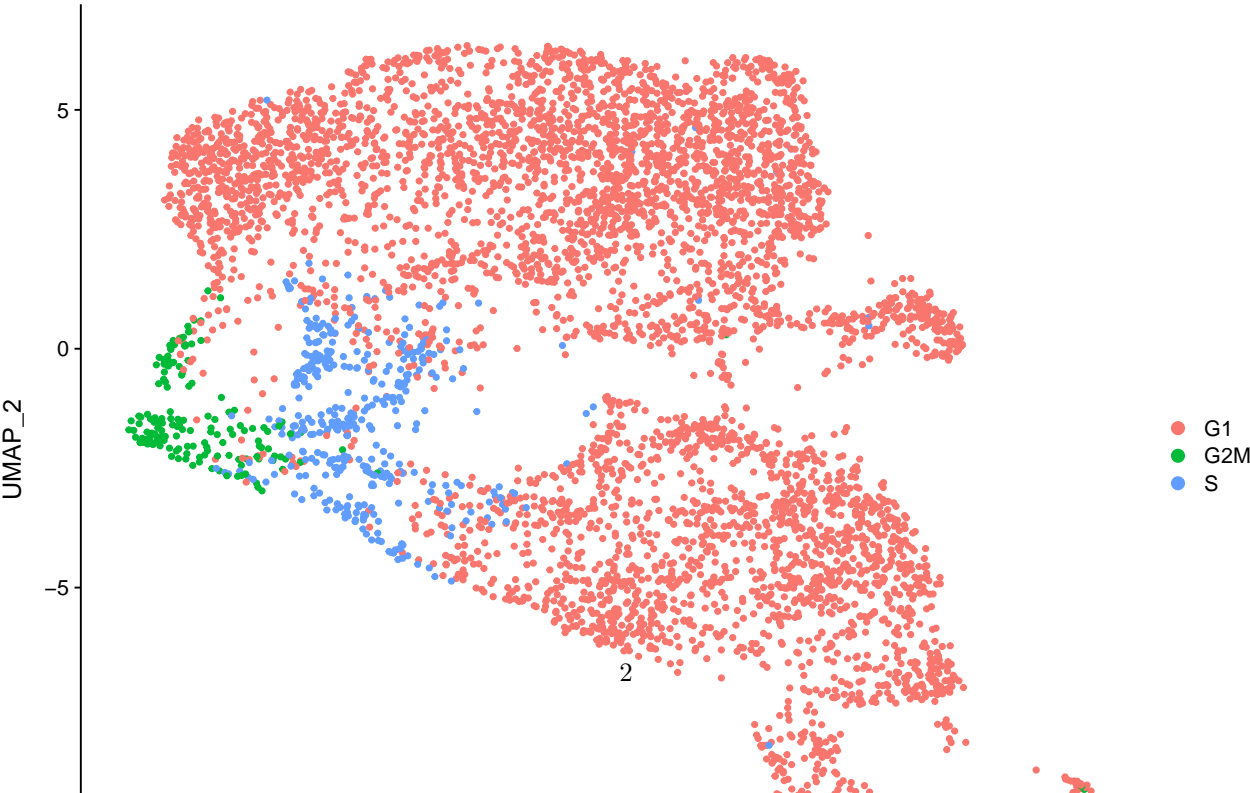
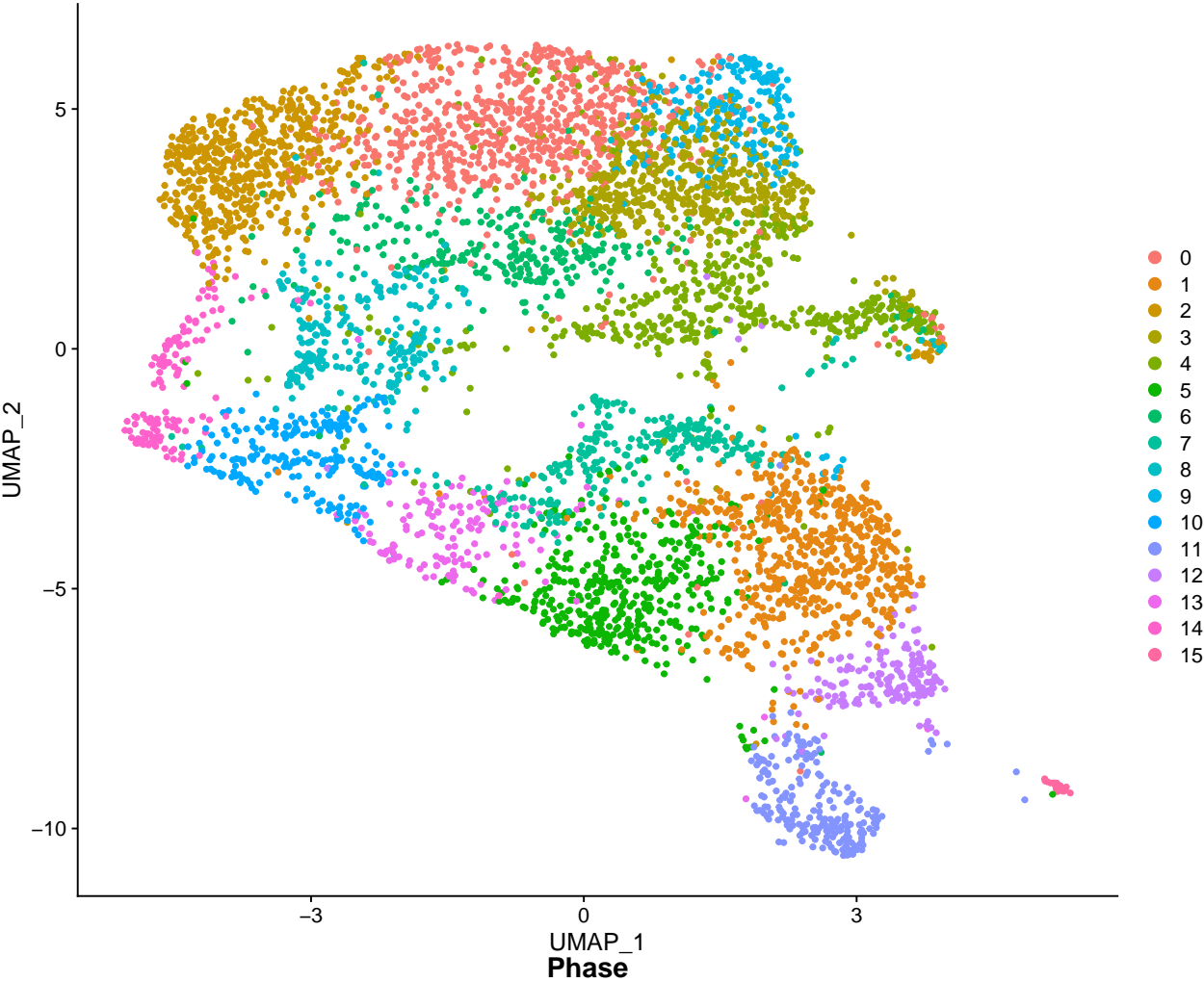
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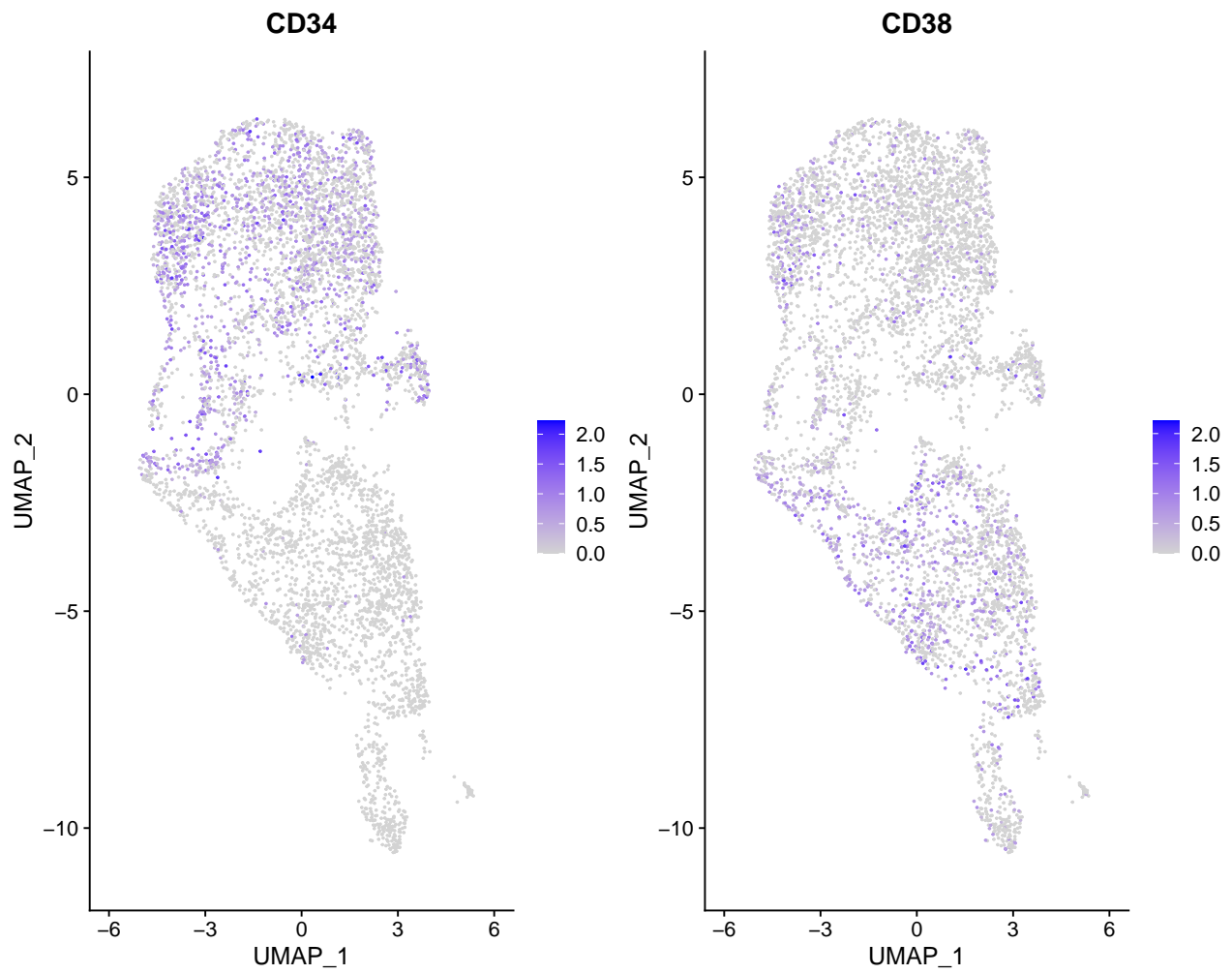
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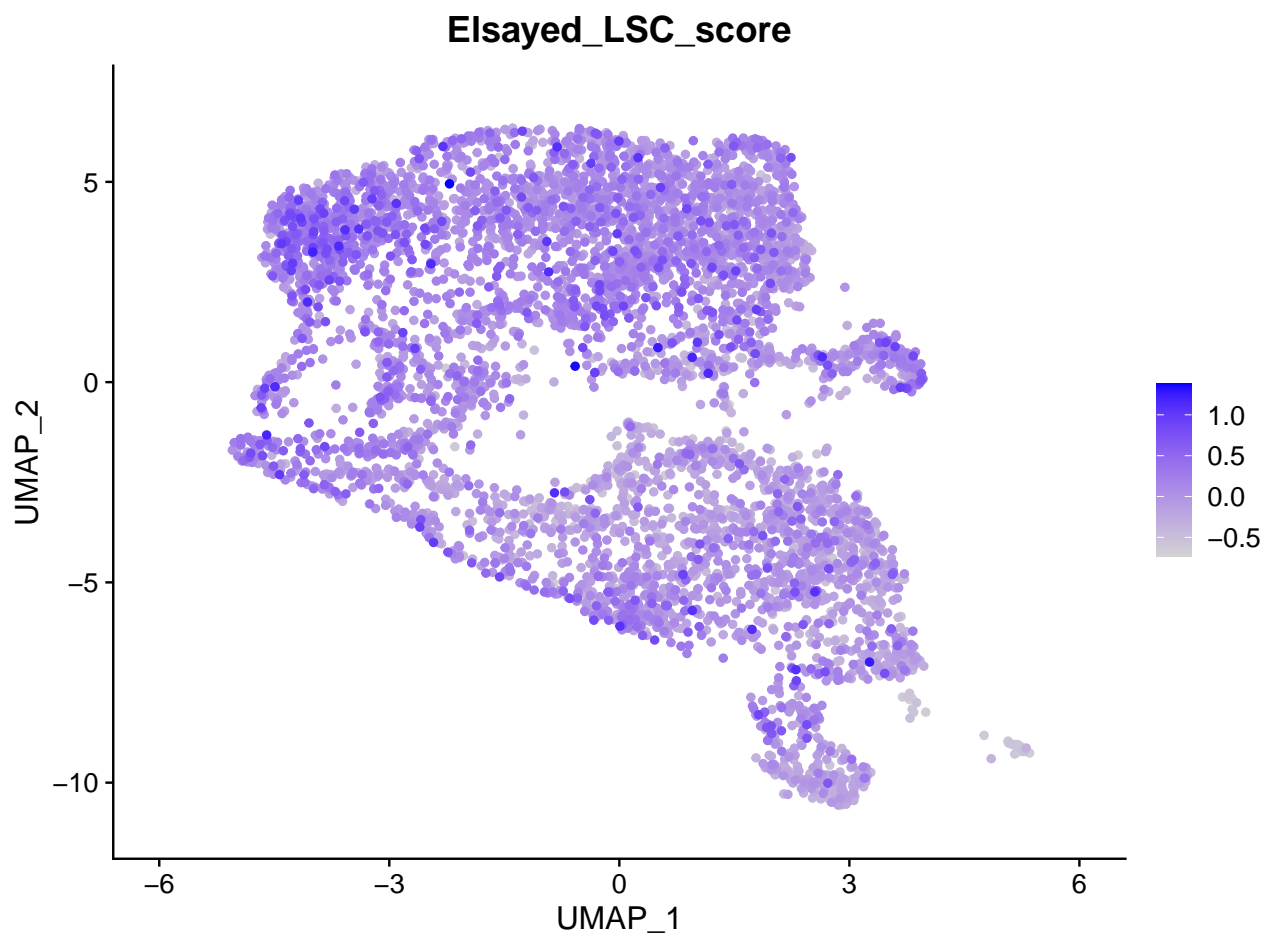
1. Put together both 34 and 38 libraries. Apply QC and dimensionality reduction.

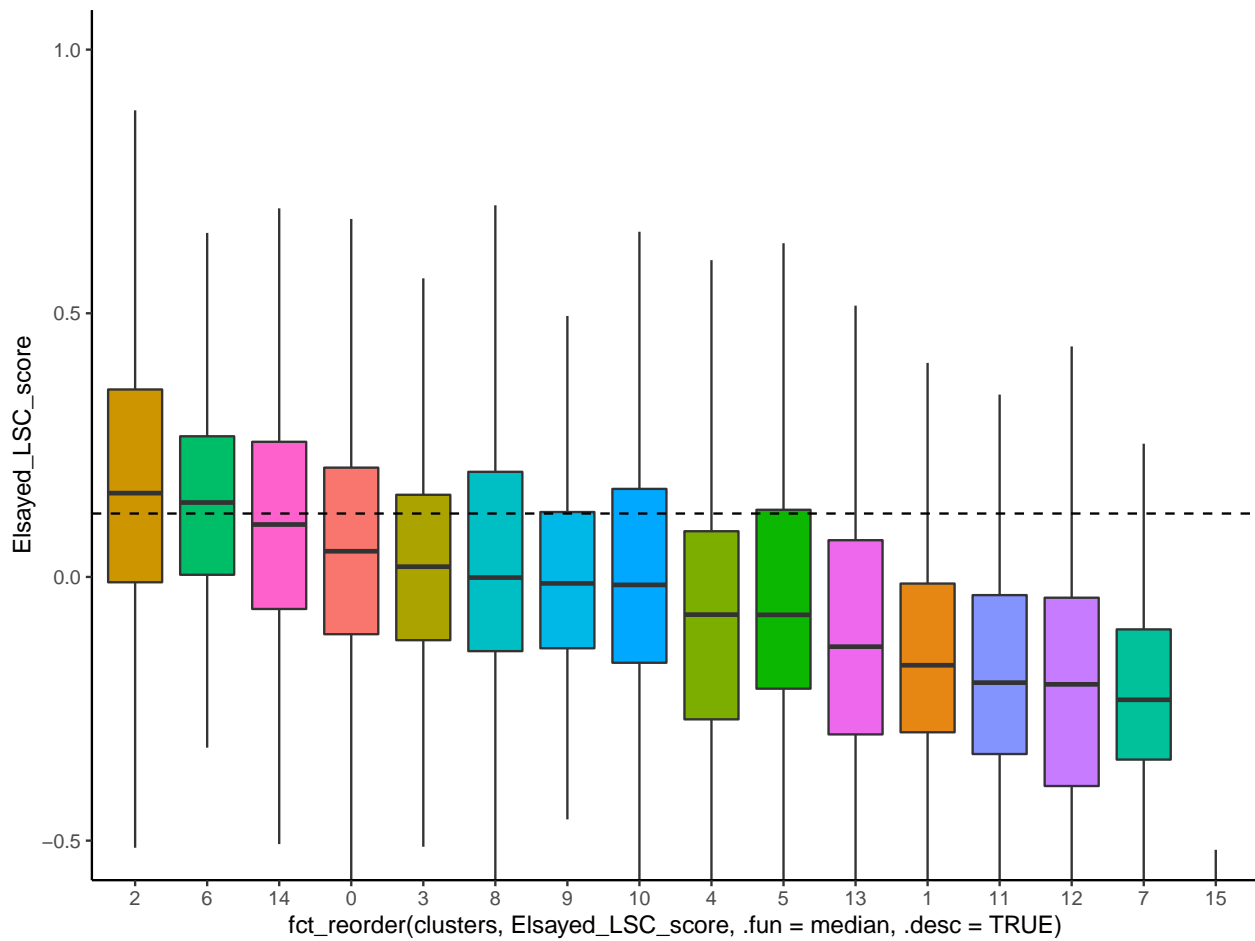




## 2. Get the LSC6 score

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



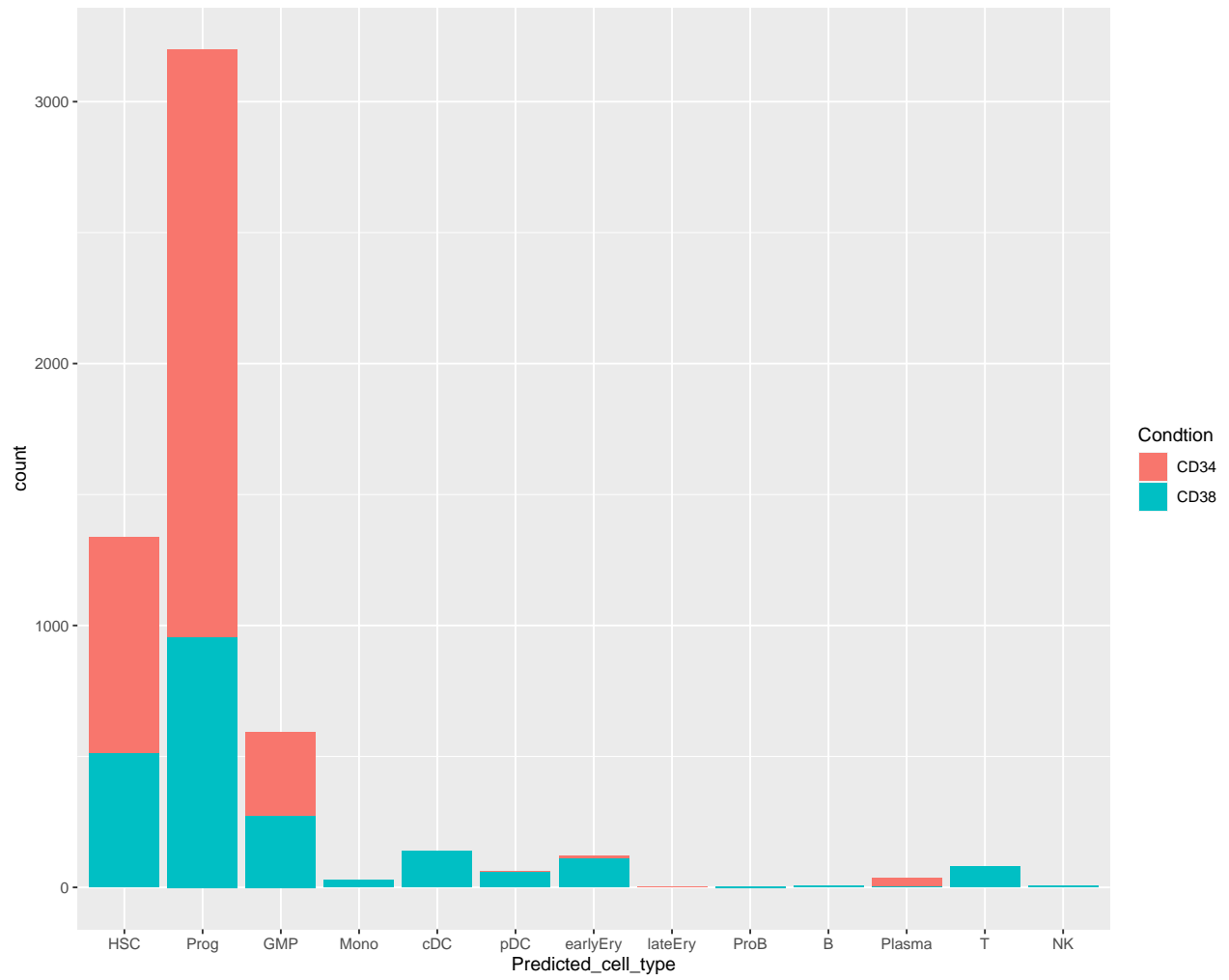


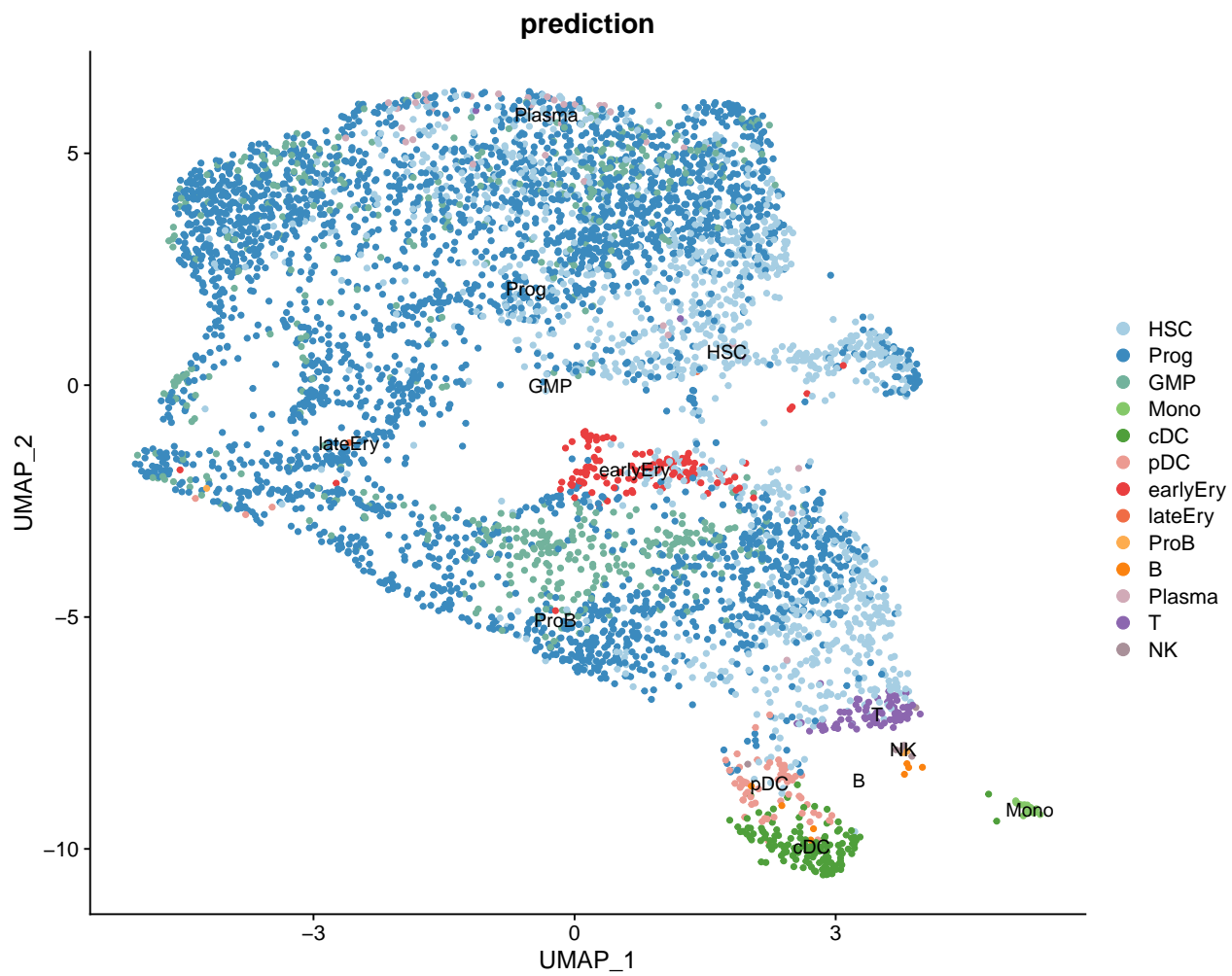
### 3. Predict the class of the cells using the markers and the expression of the BM cells form Van\_Galen paper

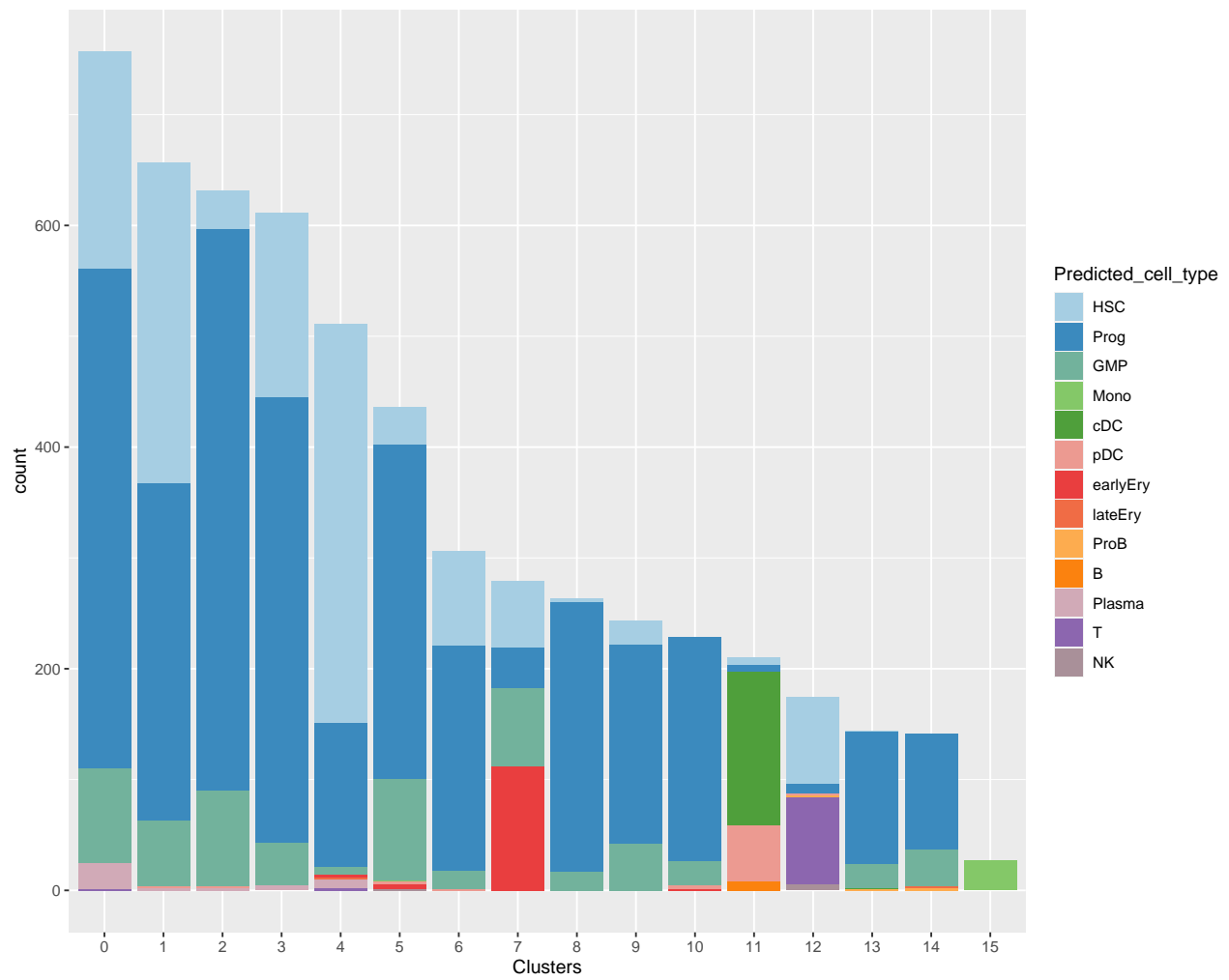
```
## Performing PCA on the provided reference using 1821 features as input.
## Projecting cell embeddings
## Finding neighborhoods
## Finding anchors
## Found 2715 anchors
## Filtering anchors
## Retained 1498 anchors
## Finding integration vectors
## Finding integration vector weights
## Predicting cell labels
##
```

	HSC	Prog	GMP	ProMono	Mono	cDC	pDC	earlyEry	lateEry	ProB	B	Plasma
CD34	825	2245	319	0	0	0	4	12	3	0	1	35
CD38	512	955	273	0	28	140	57	108	0	4	7	3

##		T	CTL	NK
##	CD34	3	0	0
##	CD38	79	0	6

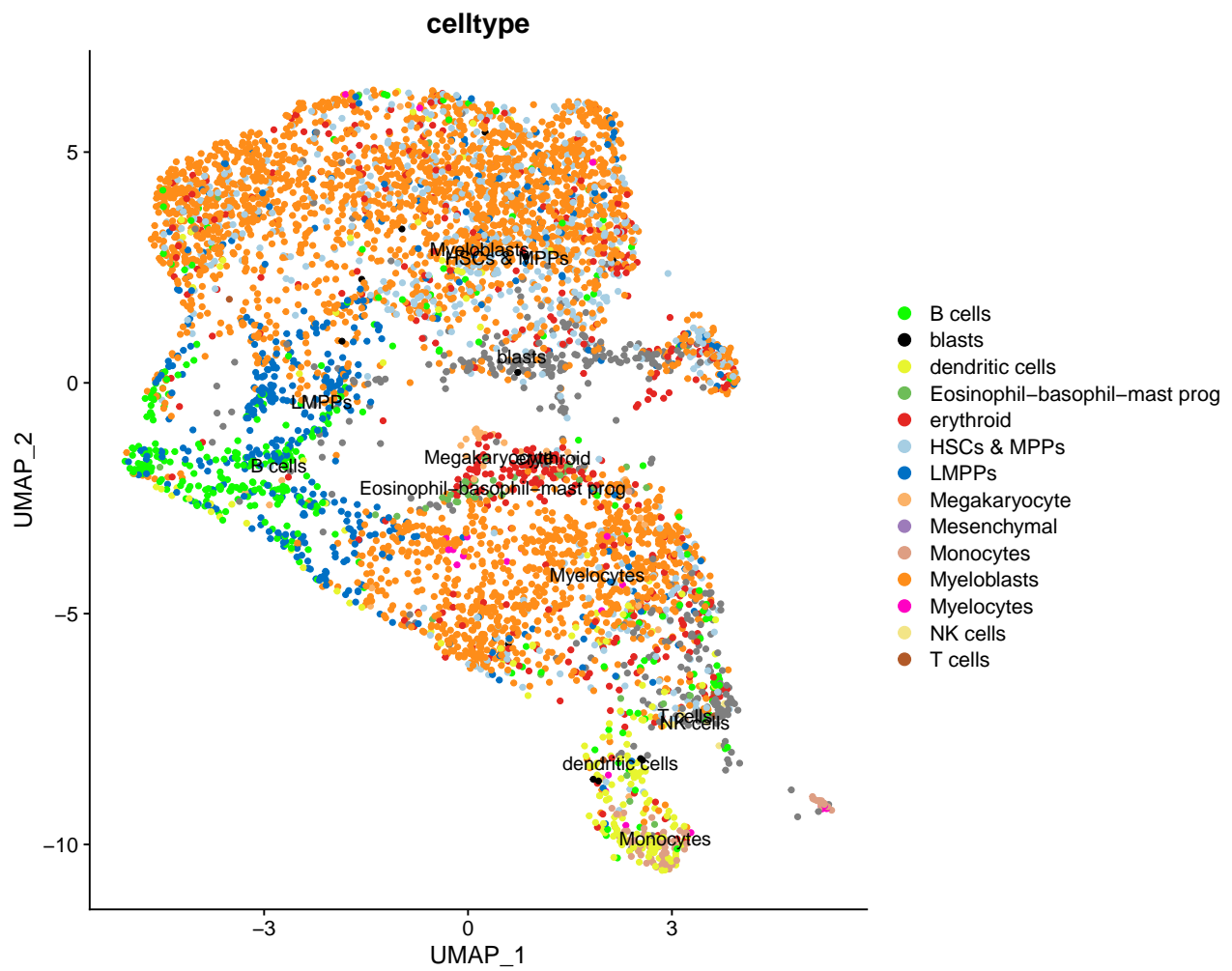


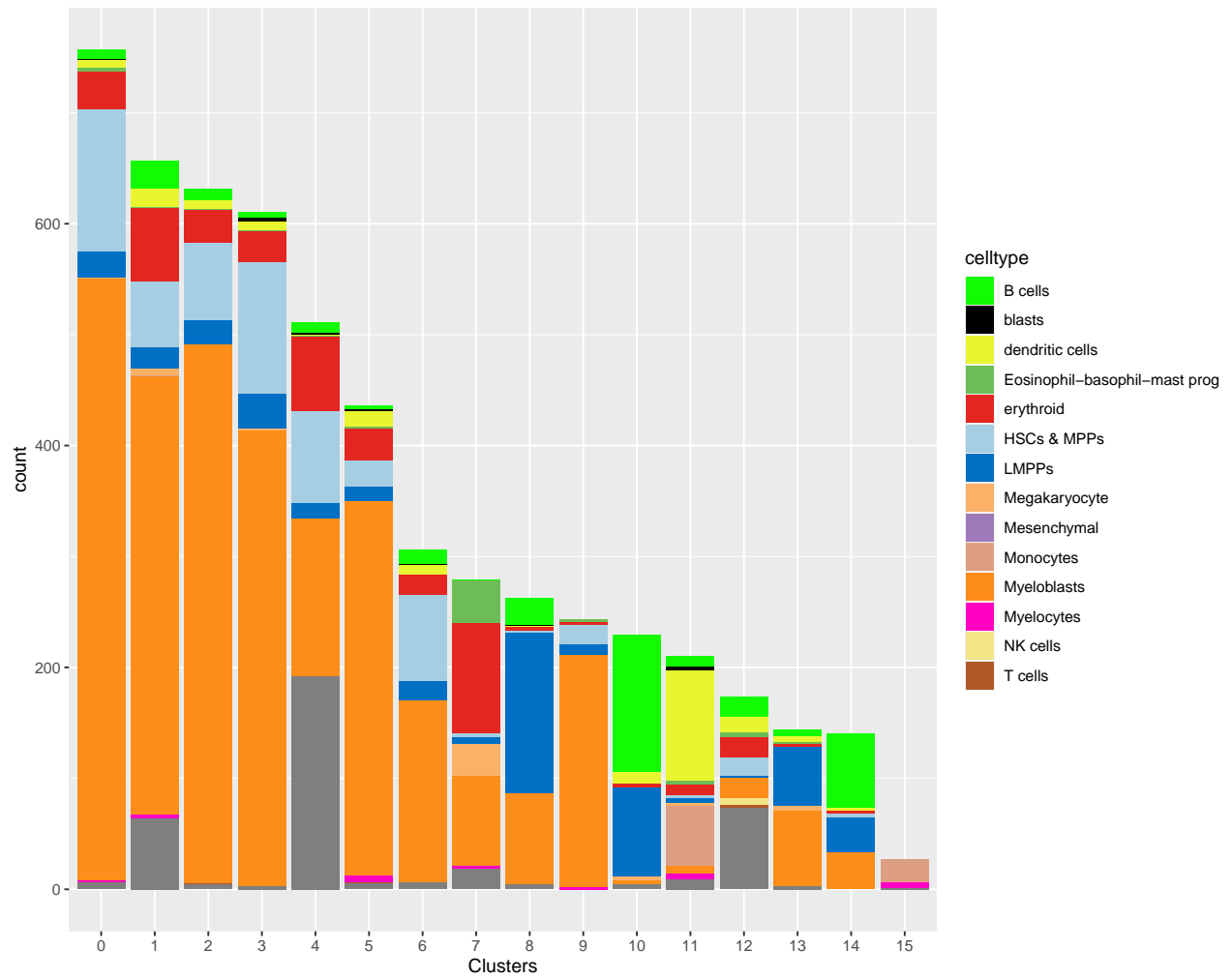






#### 4. Project the predictions from Velten onto our UMAP





Both clusters 2 and 6 seem to be above the LSC6 threshold and show a similar enrichment of HSC predicted cells.