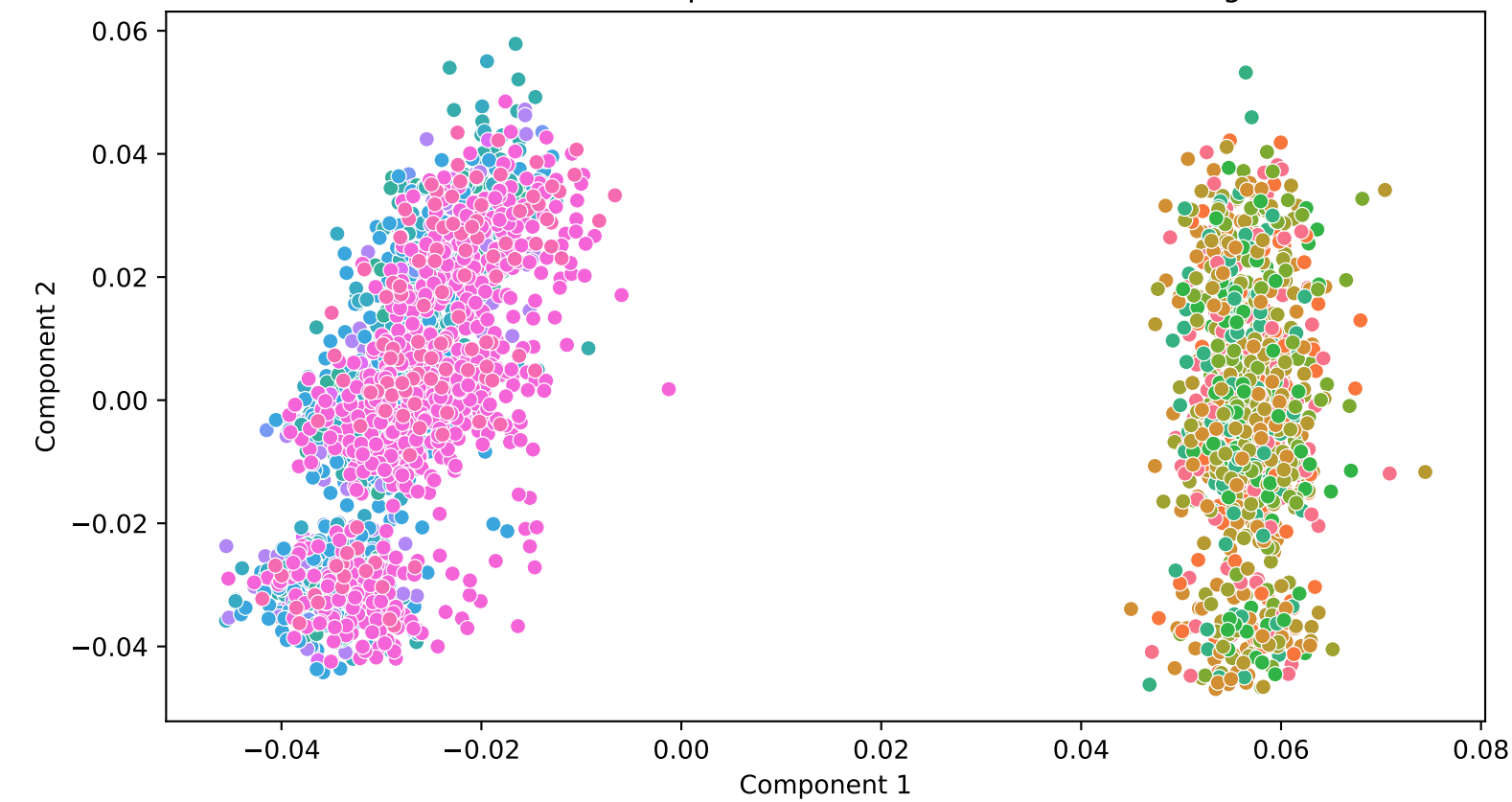


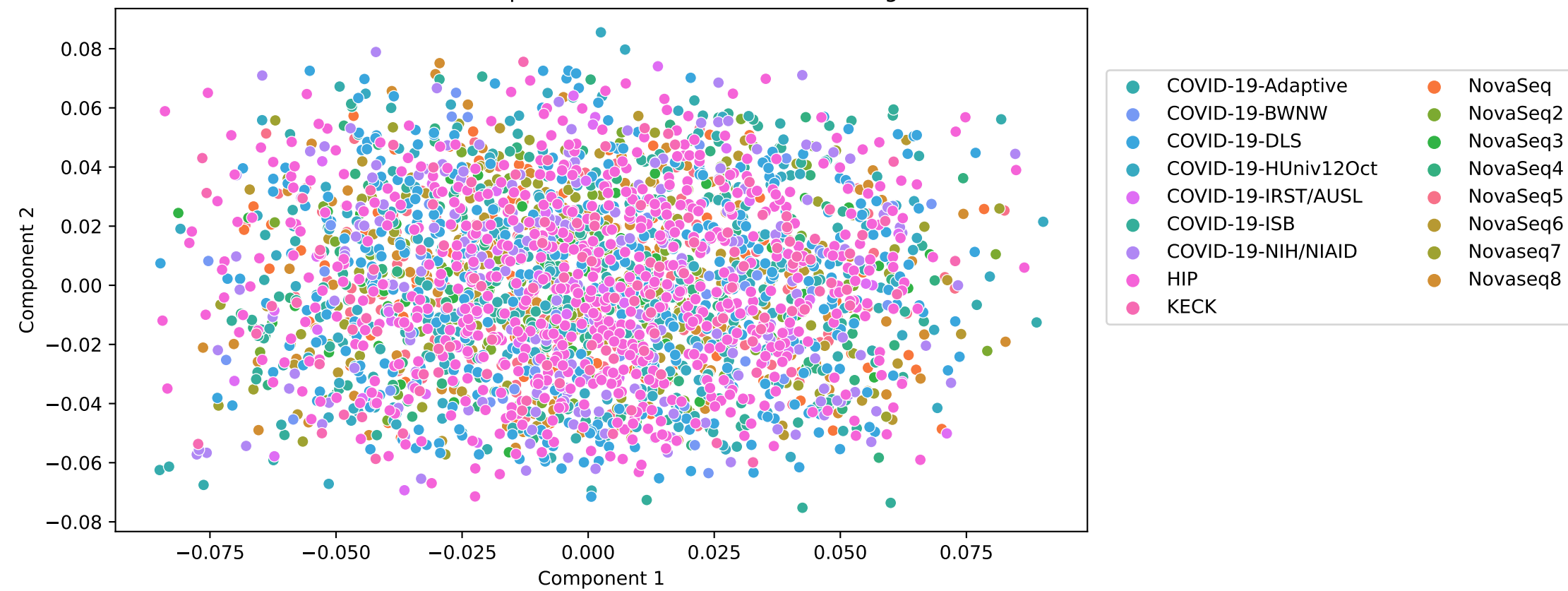
A

PCA for FMBA/Adaptive data before Batch effect fixing

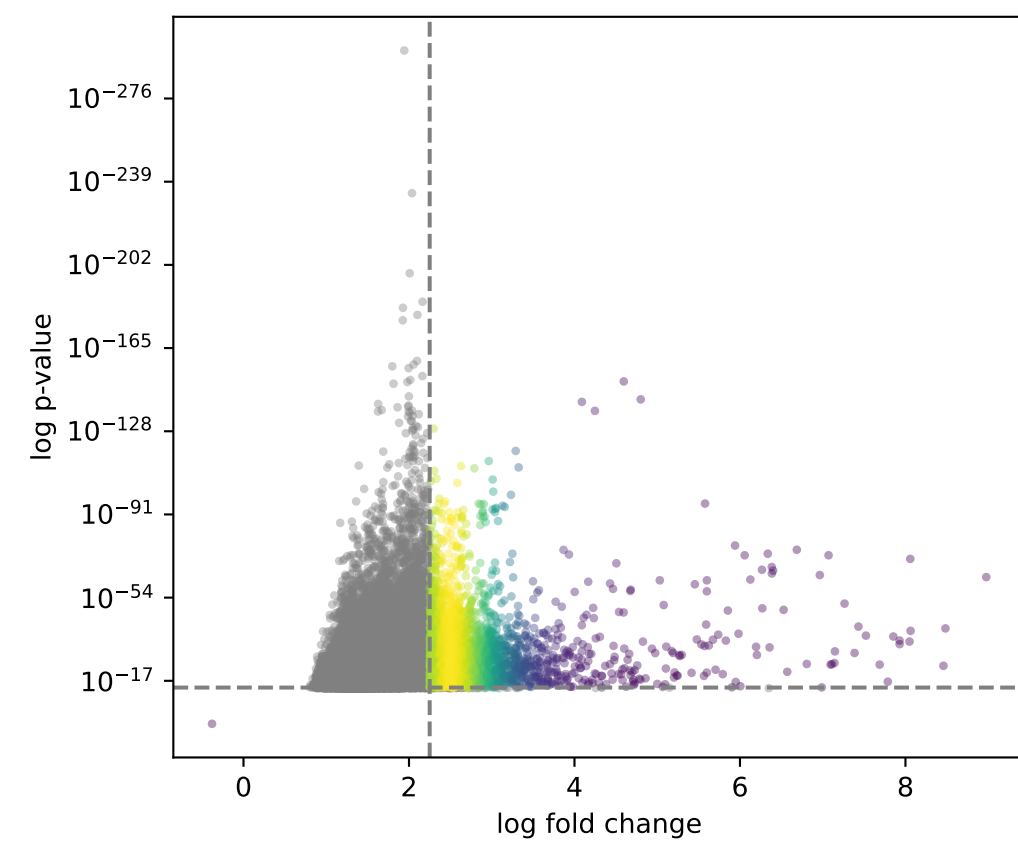


B

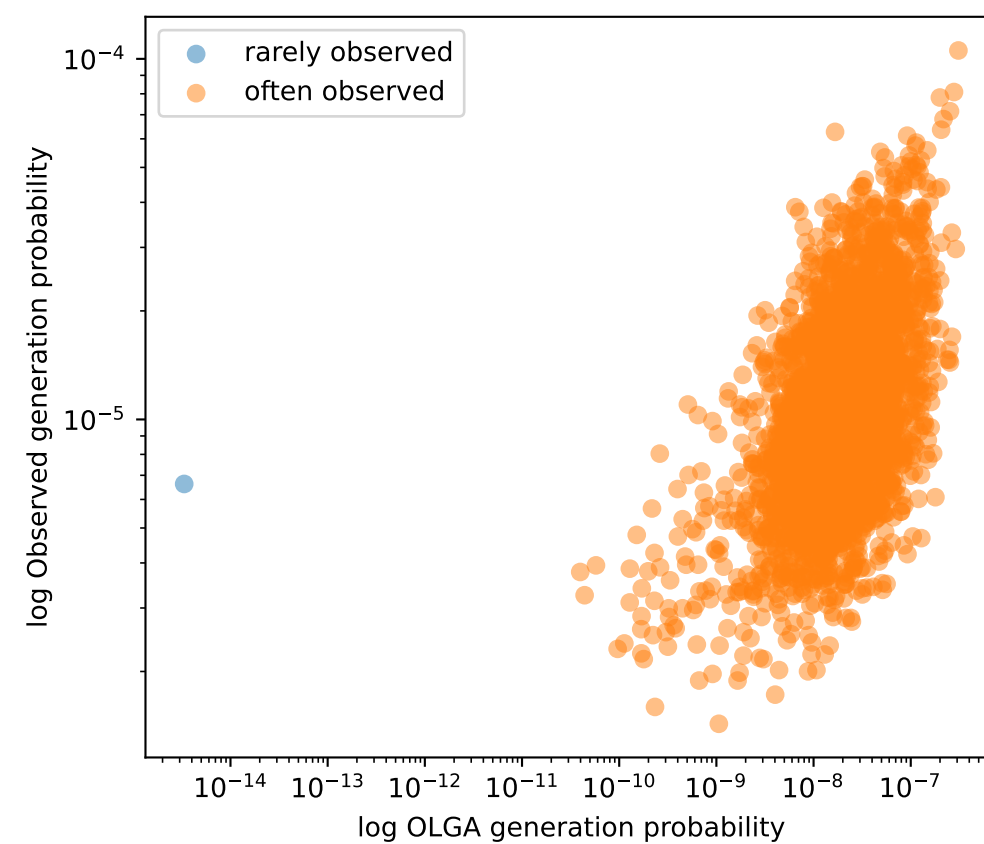
PCA for FMBA/Adaptive data after Batch effect fixing



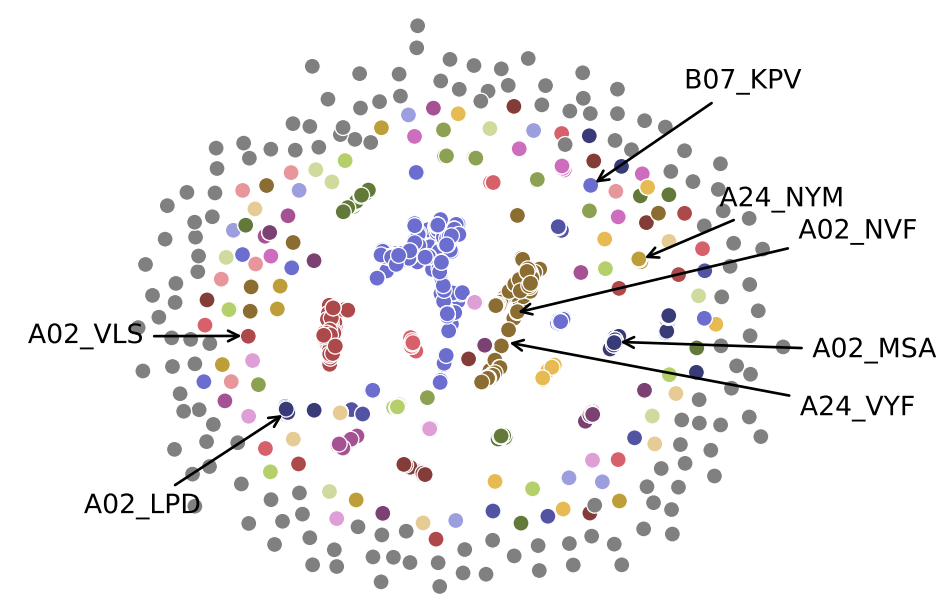
C



D

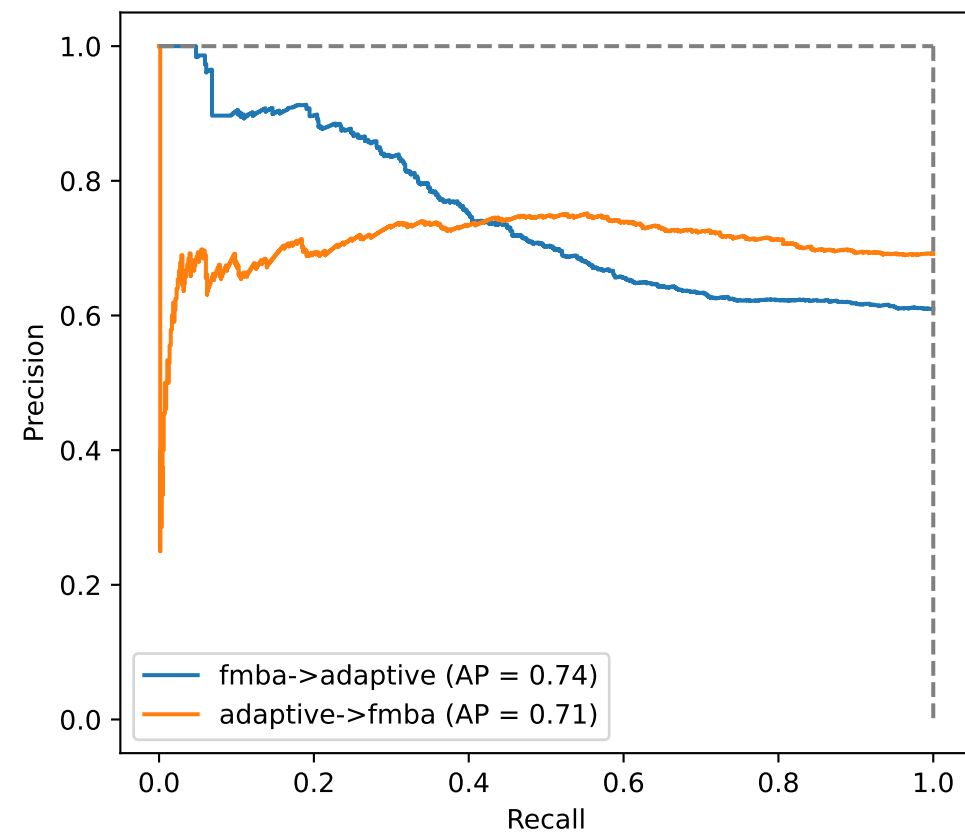


E

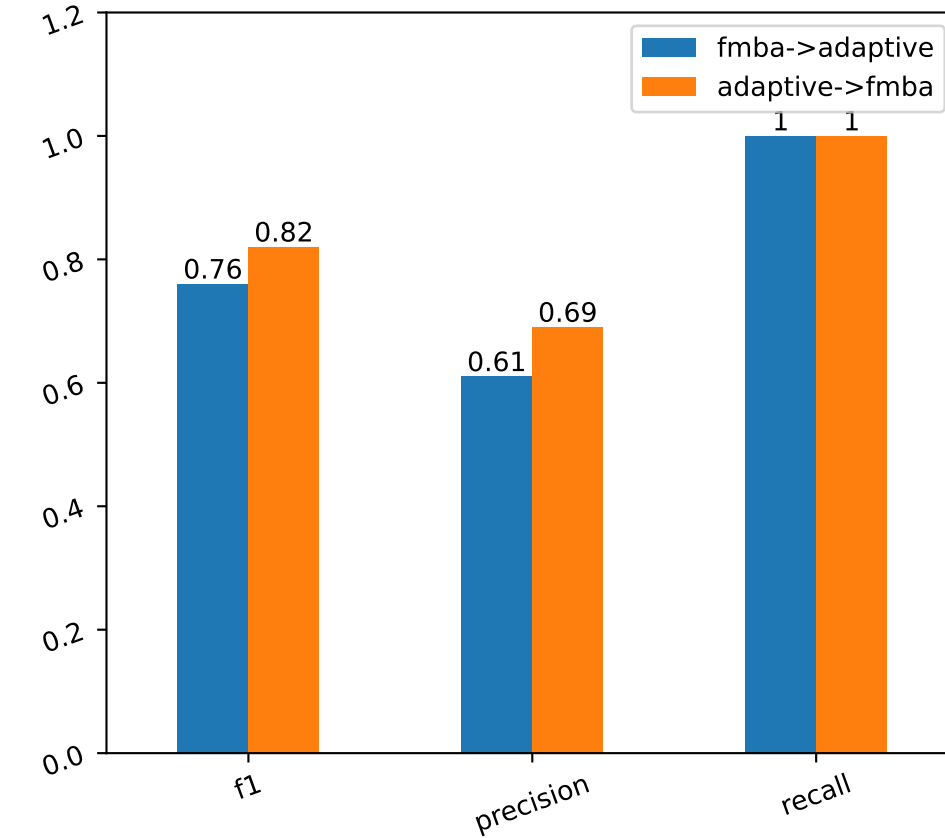
Adaptive TCR $\beta$  clone clustering, 280 clusters

F

Precision-Recall curve



G



H

Adaptive/FMBA TCR $\beta$  clone clustering, 336 clusters