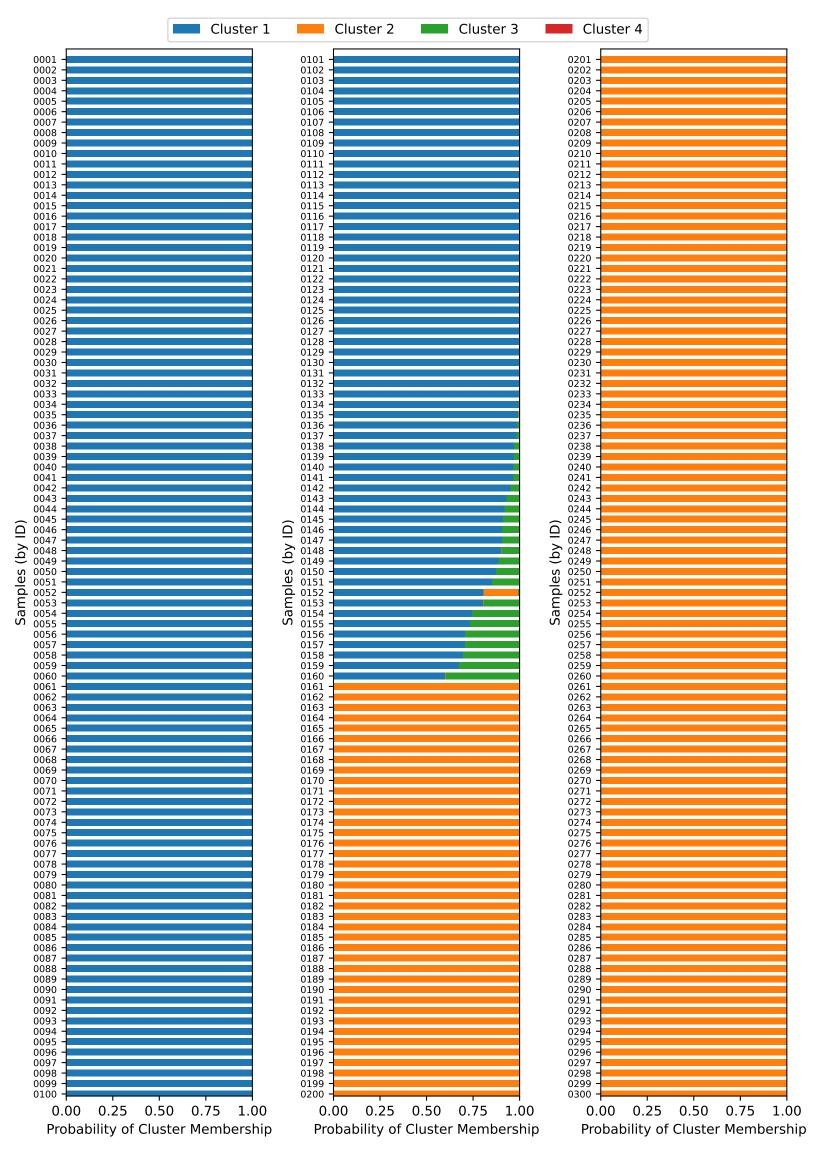
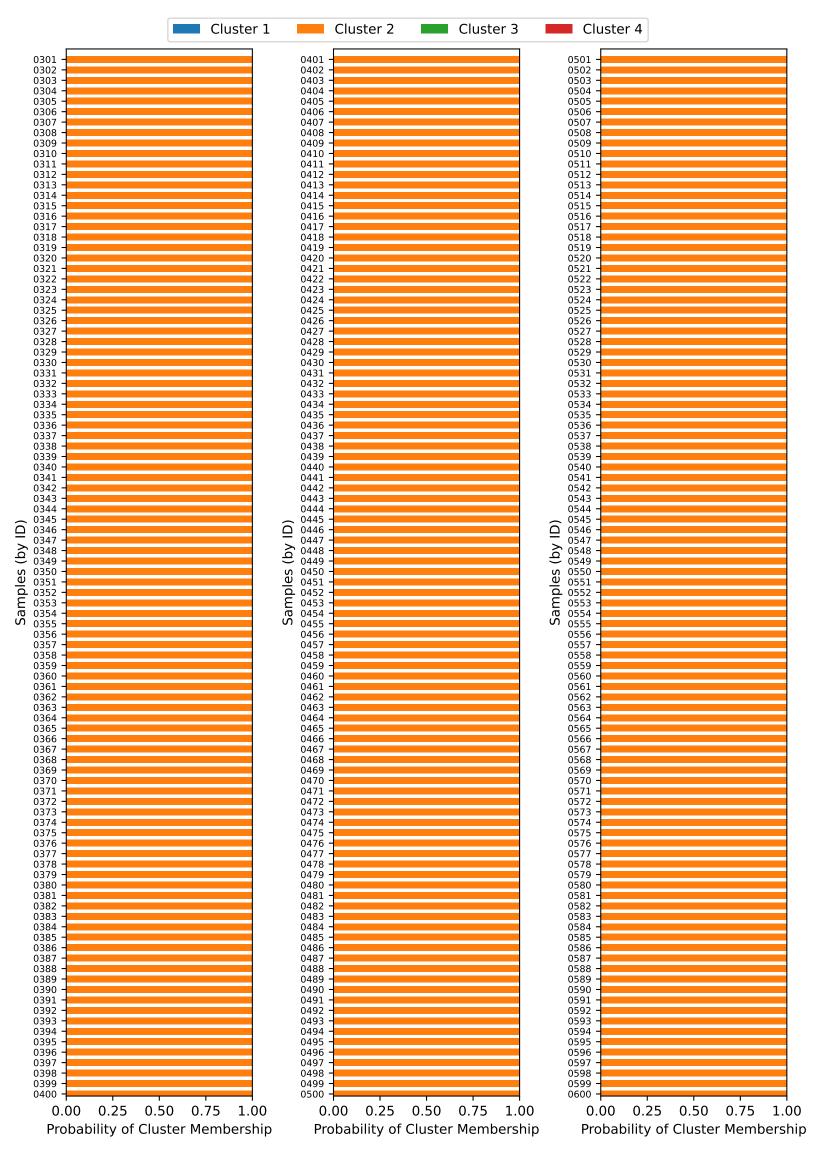
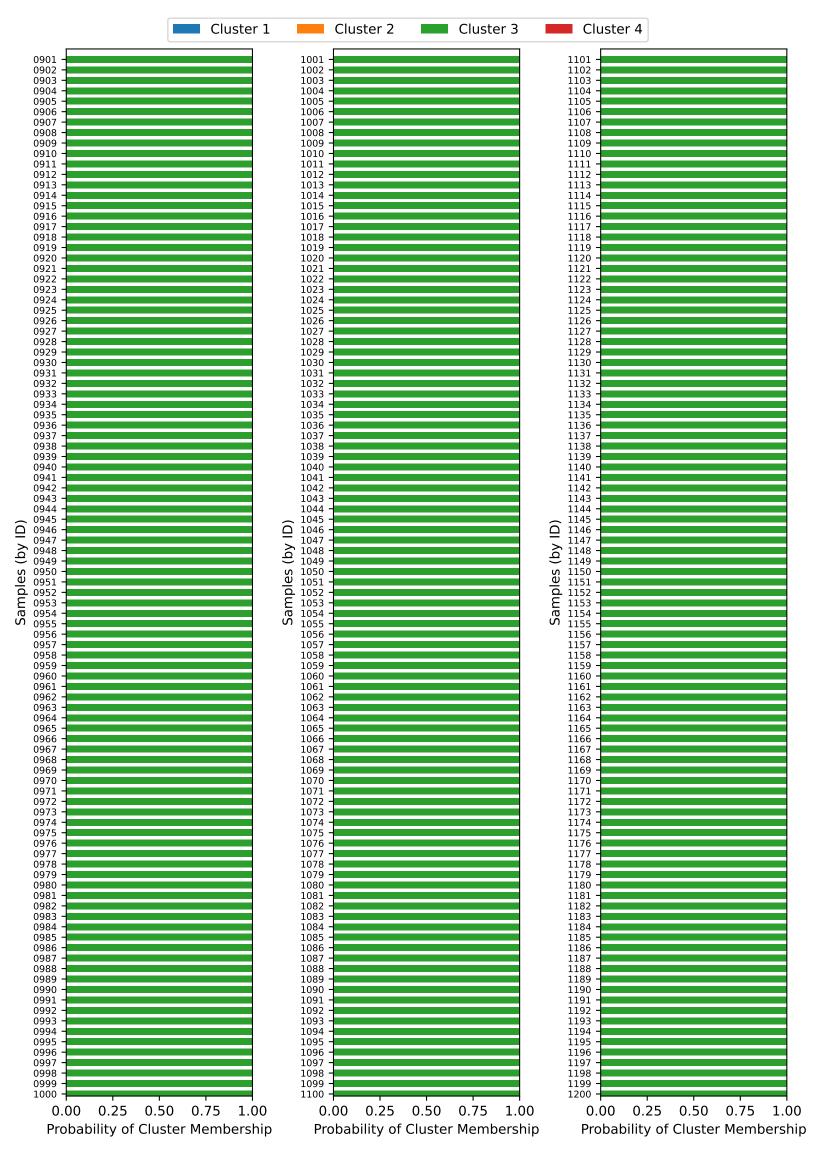
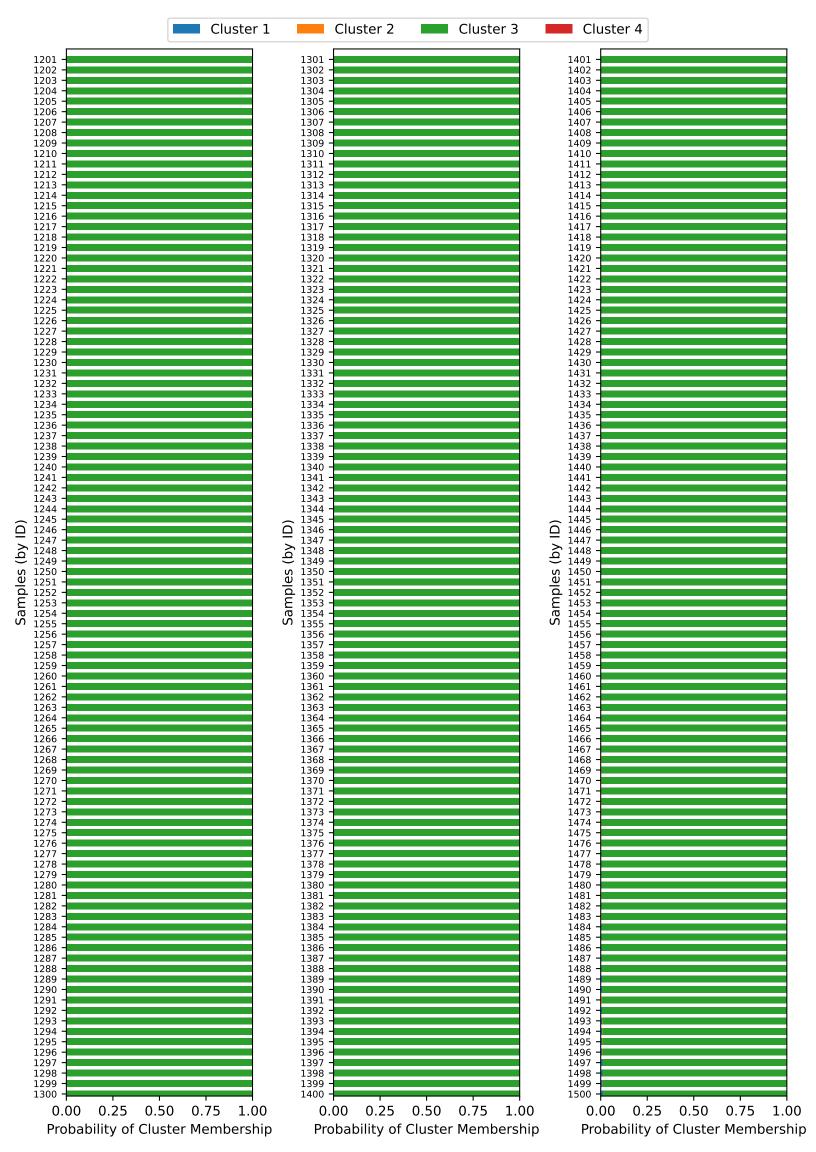
PCA Result Colour Coded Based on GMM Cluster Assignment Cluster 1 1.00 2 0.92 0.84 0.76 0.68 1 Cluster 2 1.00 0.92 0.83 0 0.75 PC2 (3.77%) 0.66 0.58 Cluster 3 0.9 8.0 0.7 0.6 -2 Cluster 4 -3 2 6 -8 -6 <del>-</del>2 -4 PC1 (82.99%)

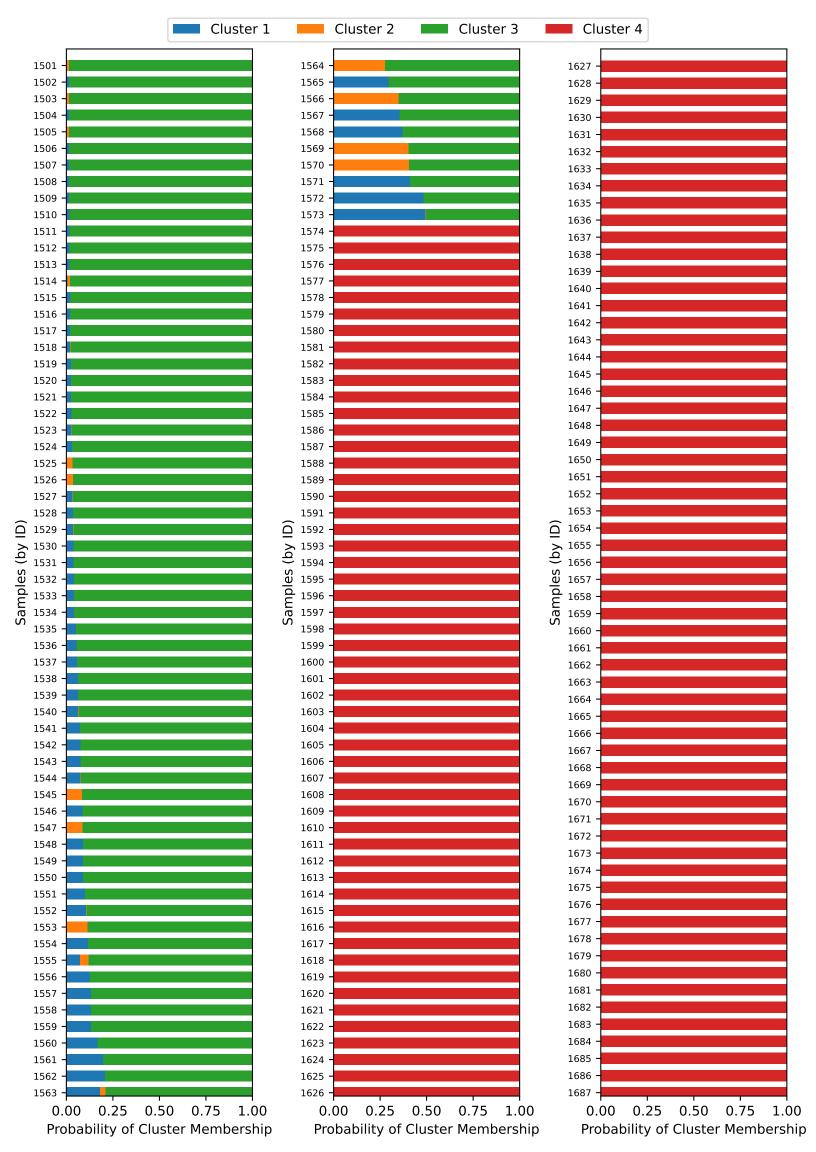




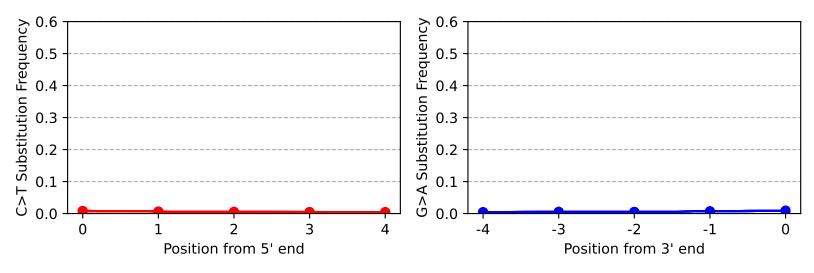




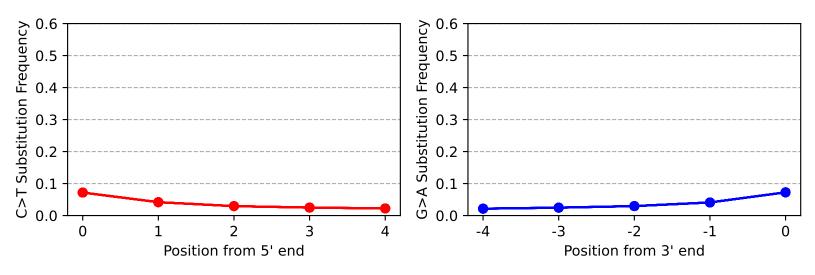




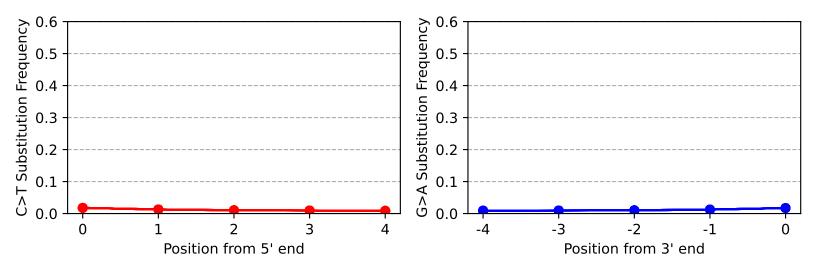
## Representative Substitution Frequencies for Cluster 1 (GMM)



## Representative Substitution Frequencies for Cluster 2 (GMM)



## Representative Substitution Frequencies for Cluster 3 (GMM)



## Representative Substitution Frequencies for Cluster 4 (GMM)

