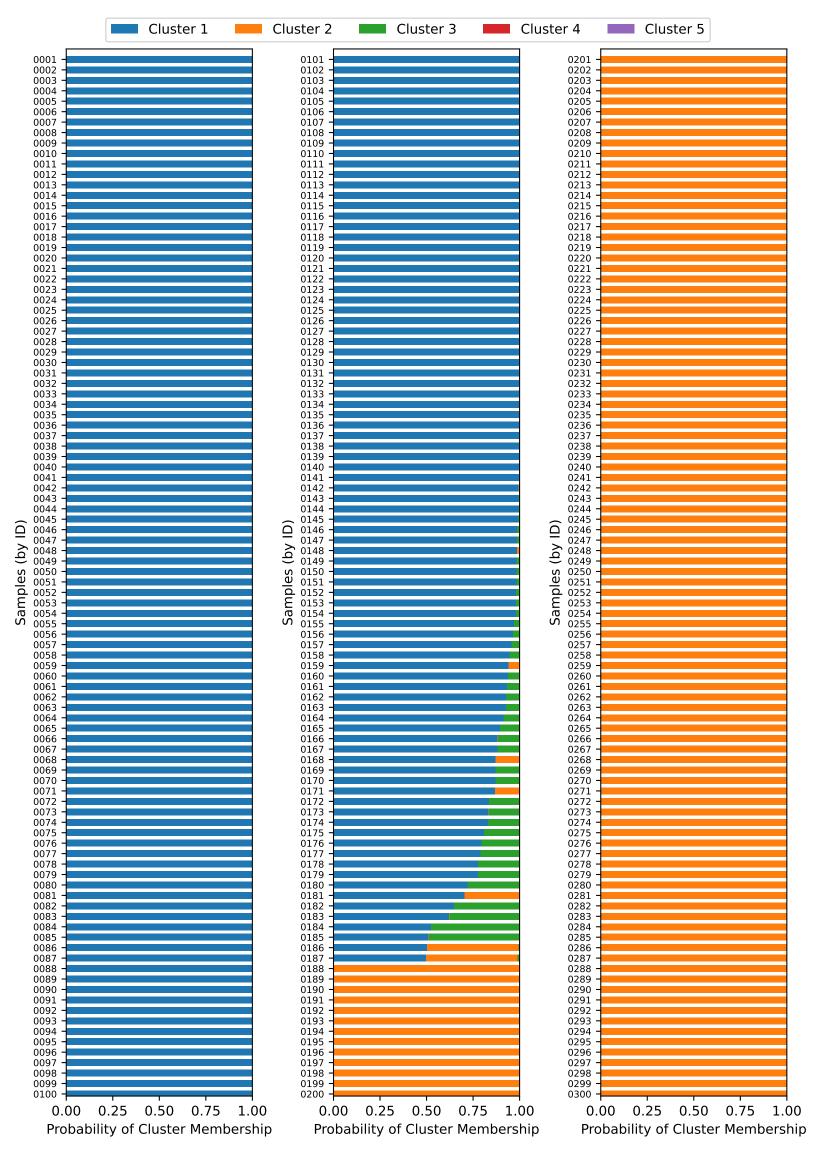
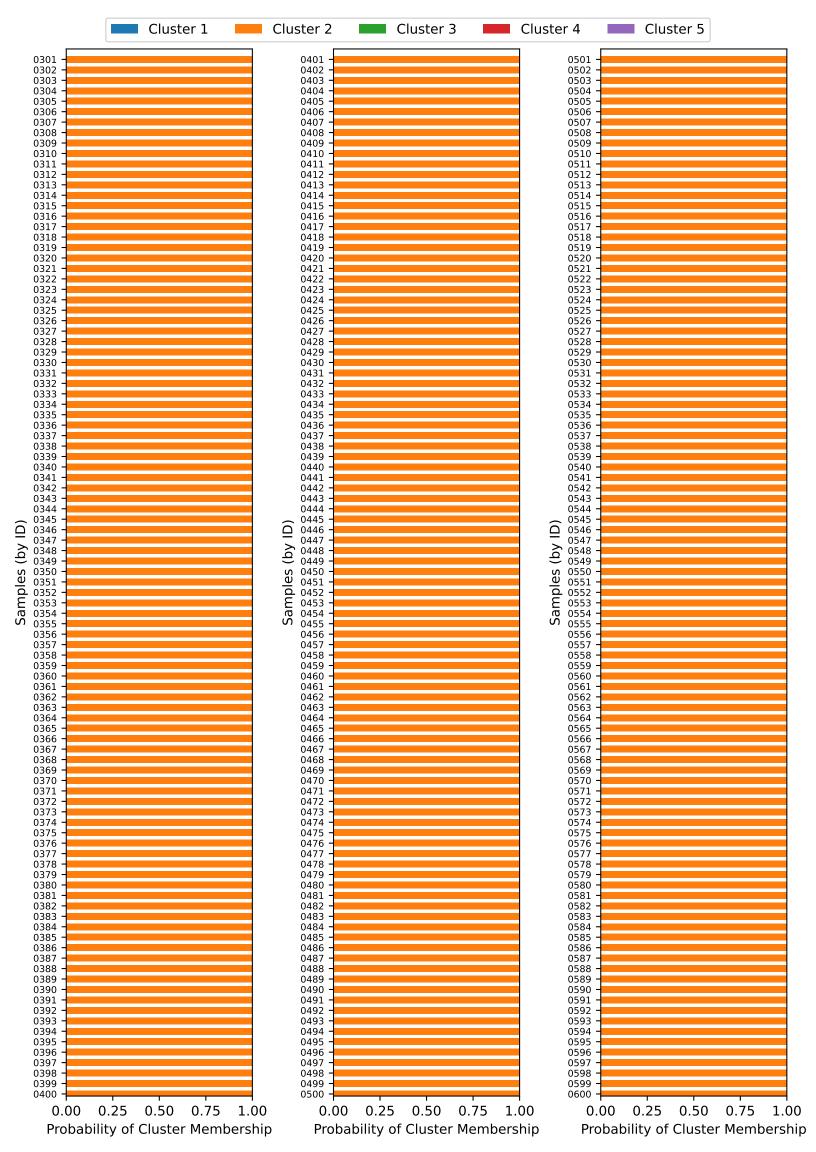
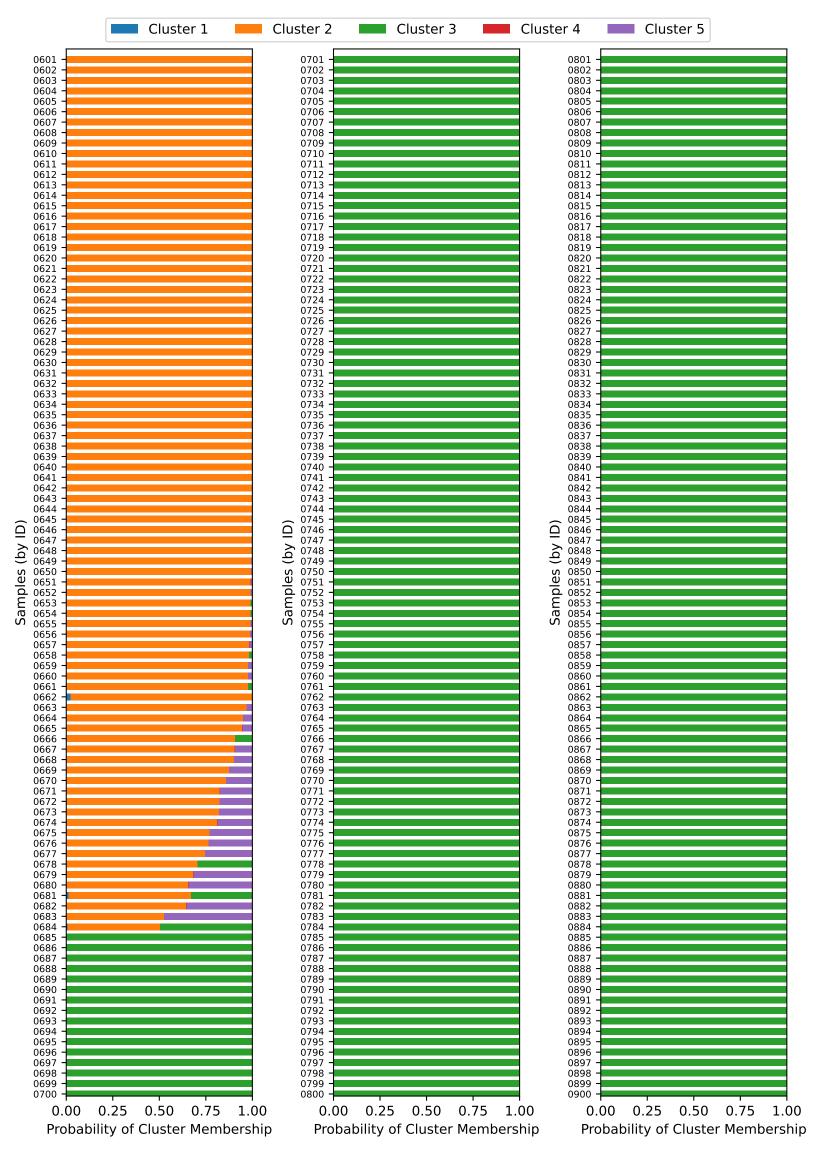
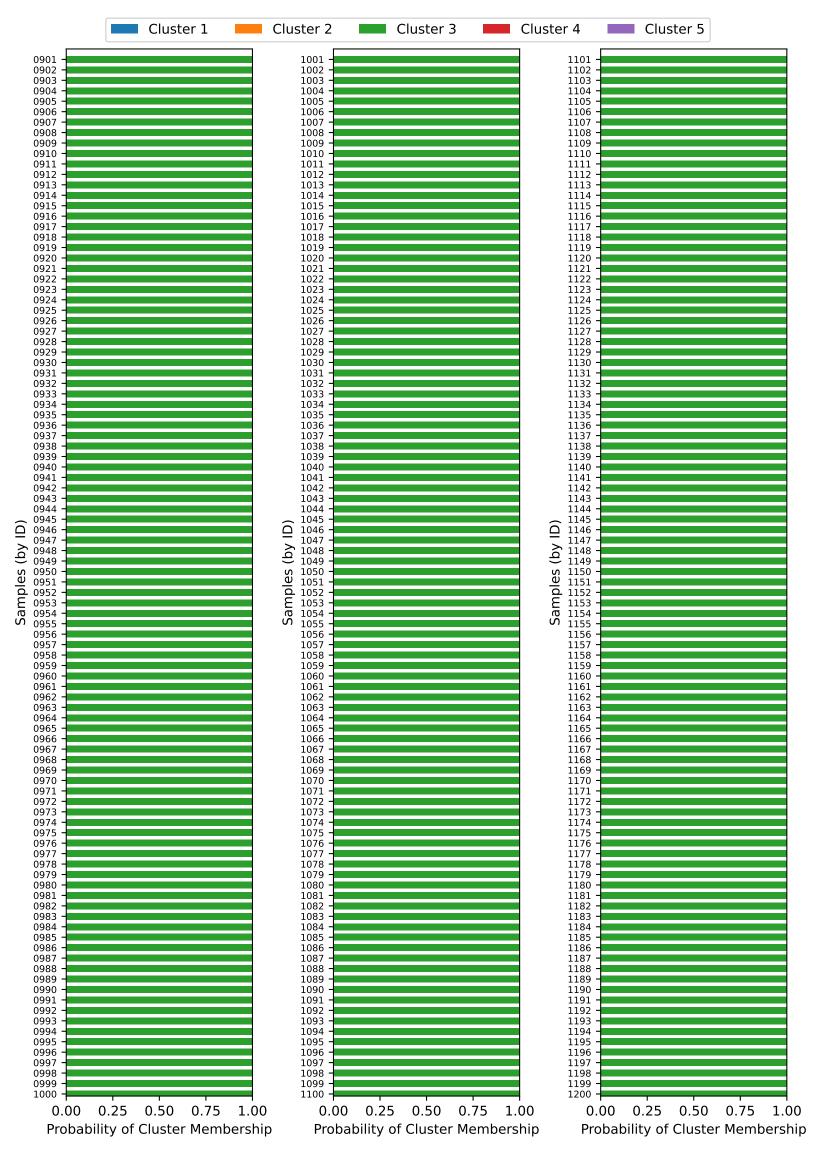
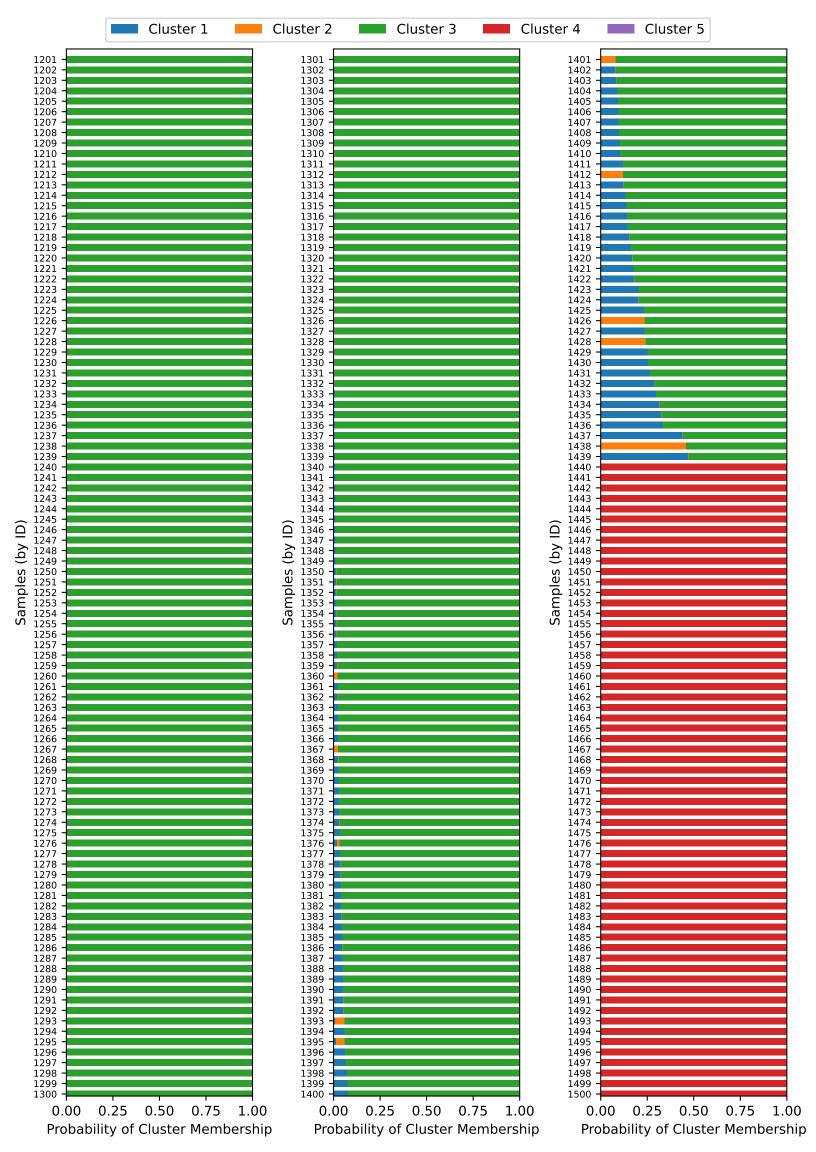
PCA Result Colour Coded Based on GMM Cluster Assignment Cluster 1 Cluster 5 1.00 1.0 2 0.9 0.90 8.0 - 0.80 0.7 - 0.70 0.6 0.60 1 0.5 0.51 Cluster 2 0.9 0.8 0 0.7 PC2 (3.77%) 0.6 0.5 Cluster 3 1.00 0.91 0.81 0.72 0.62 -2 0.53 Cluster 4 -3 2 6 -8 -2 -6 -4 PC1 (82.99%)

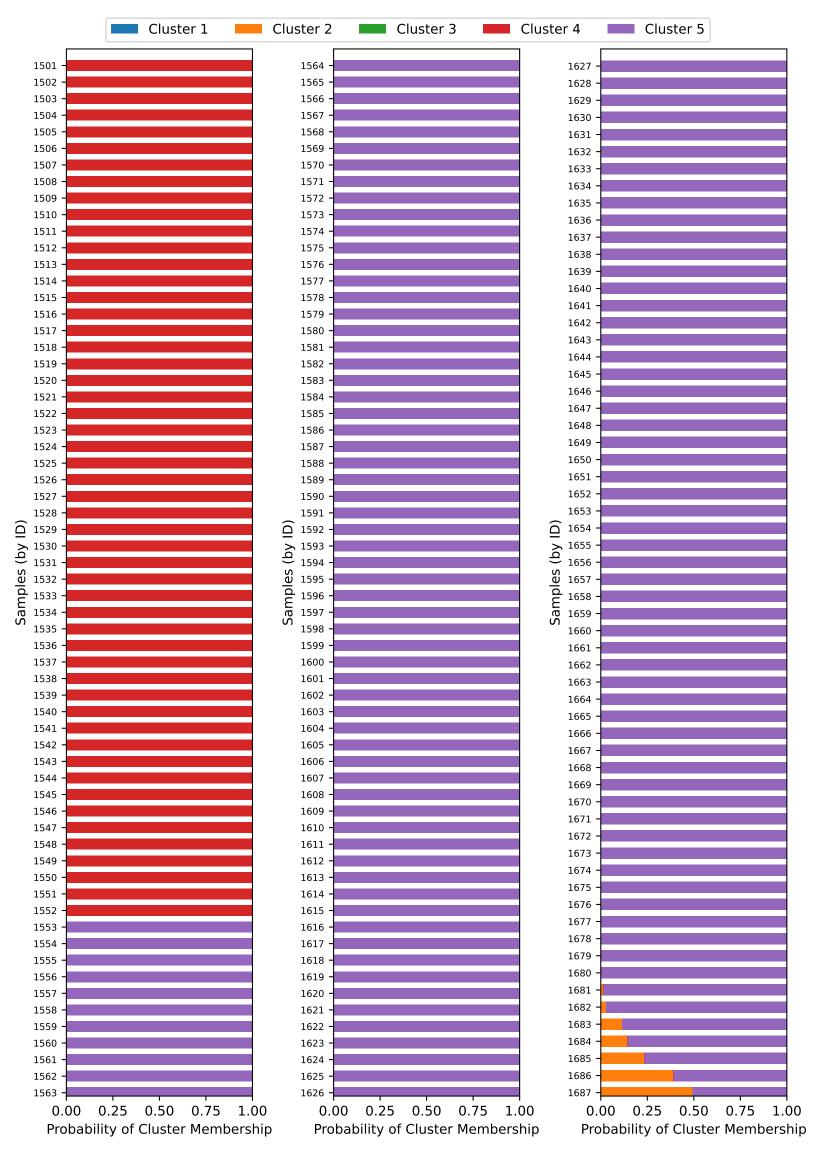




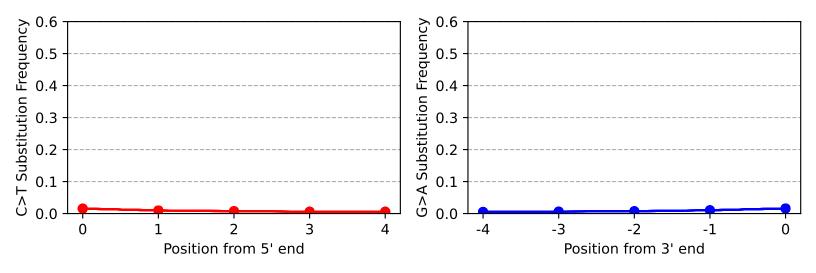




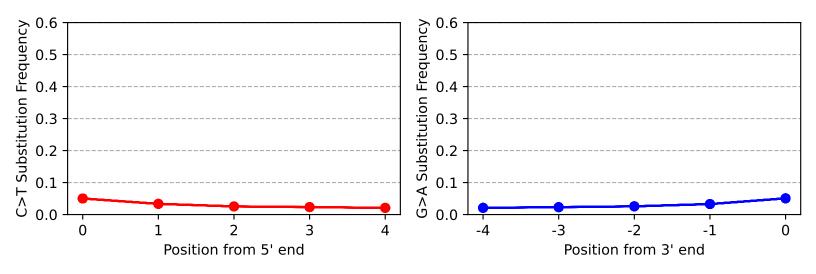




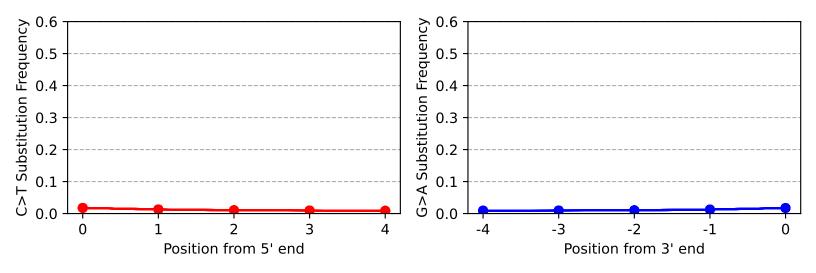
Representative Substitution Frequencies for Cluster 1 (GMM)



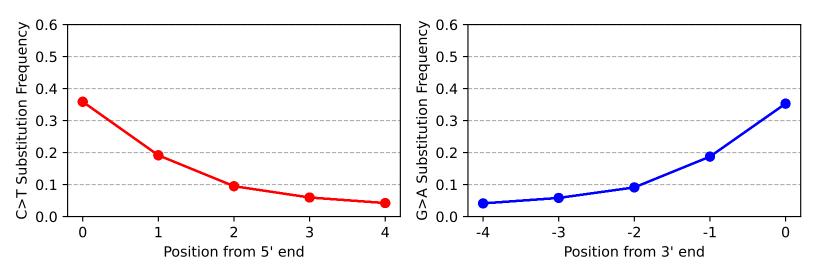
Representative Substitution Frequencies for Cluster 2 (GMM)



Representative Substitution Frequencies for Cluster 3 (GMM)



Representative Substitution Frequencies for Cluster 4 (GMM)



Representative Substitution Frequencies for Cluster 5 (GMM)

