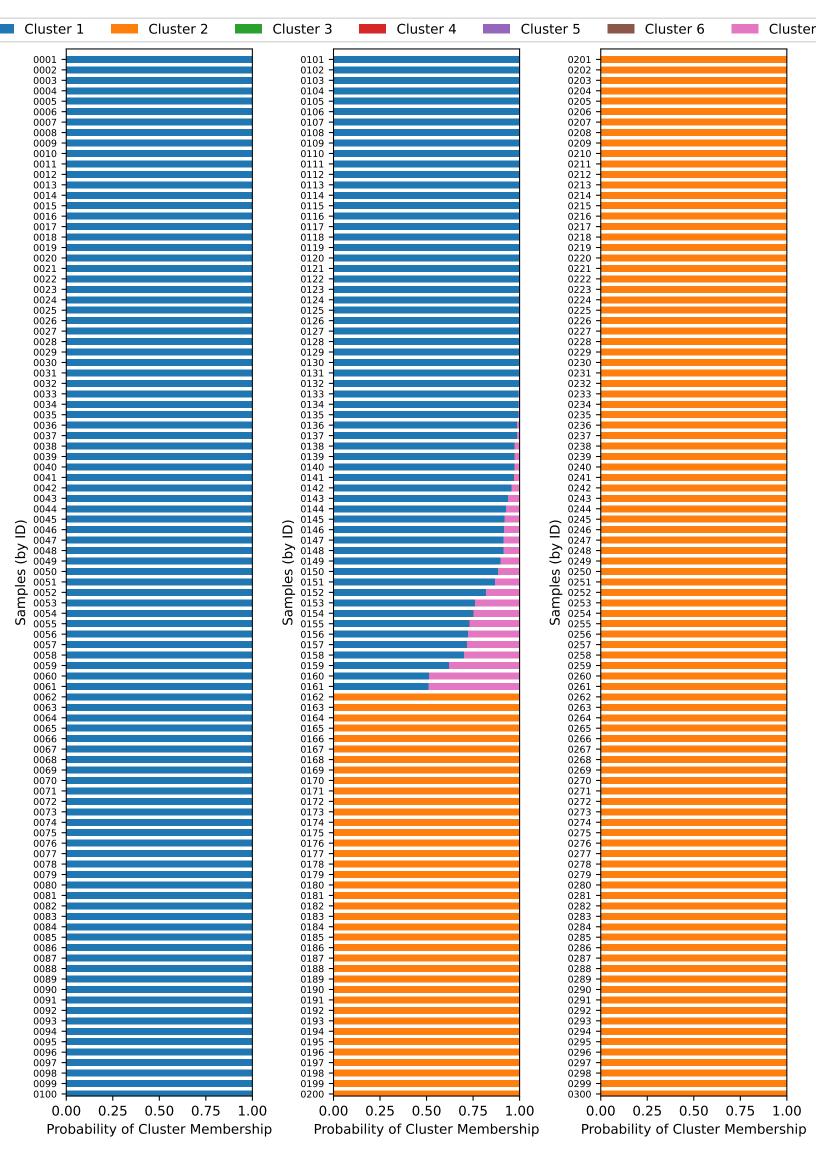
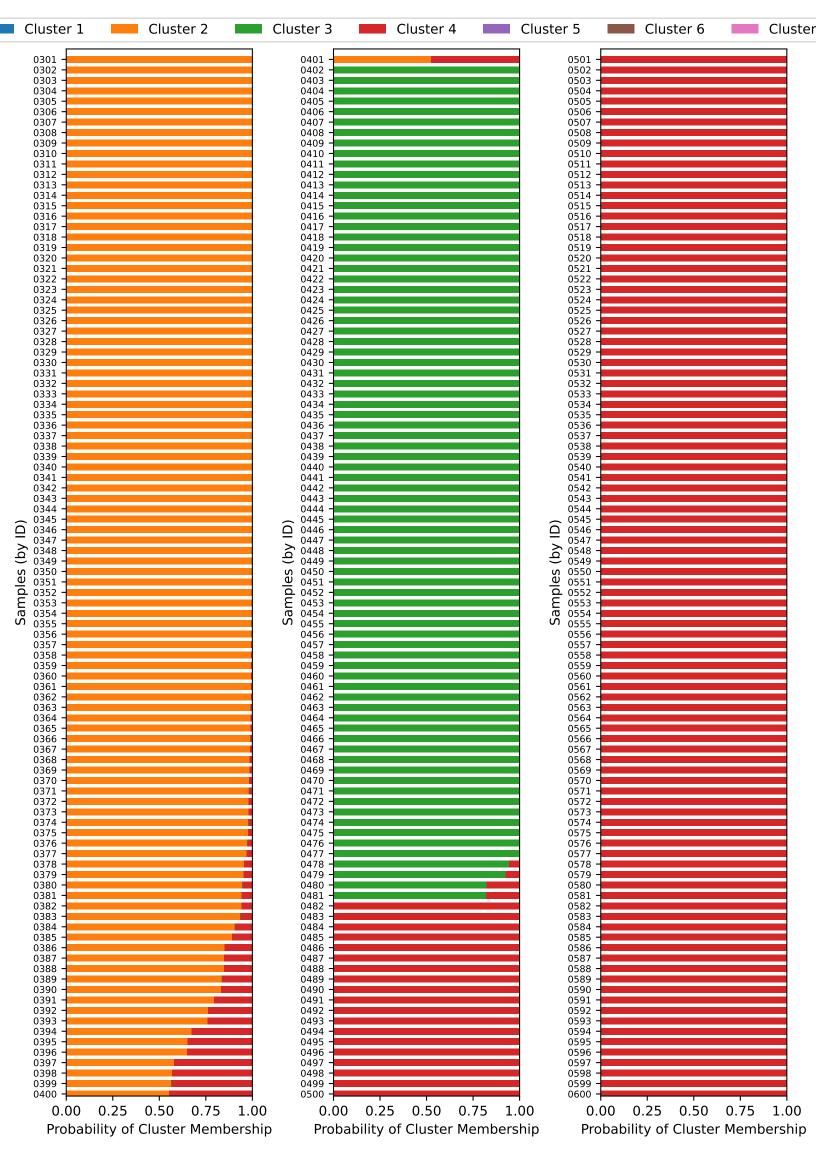
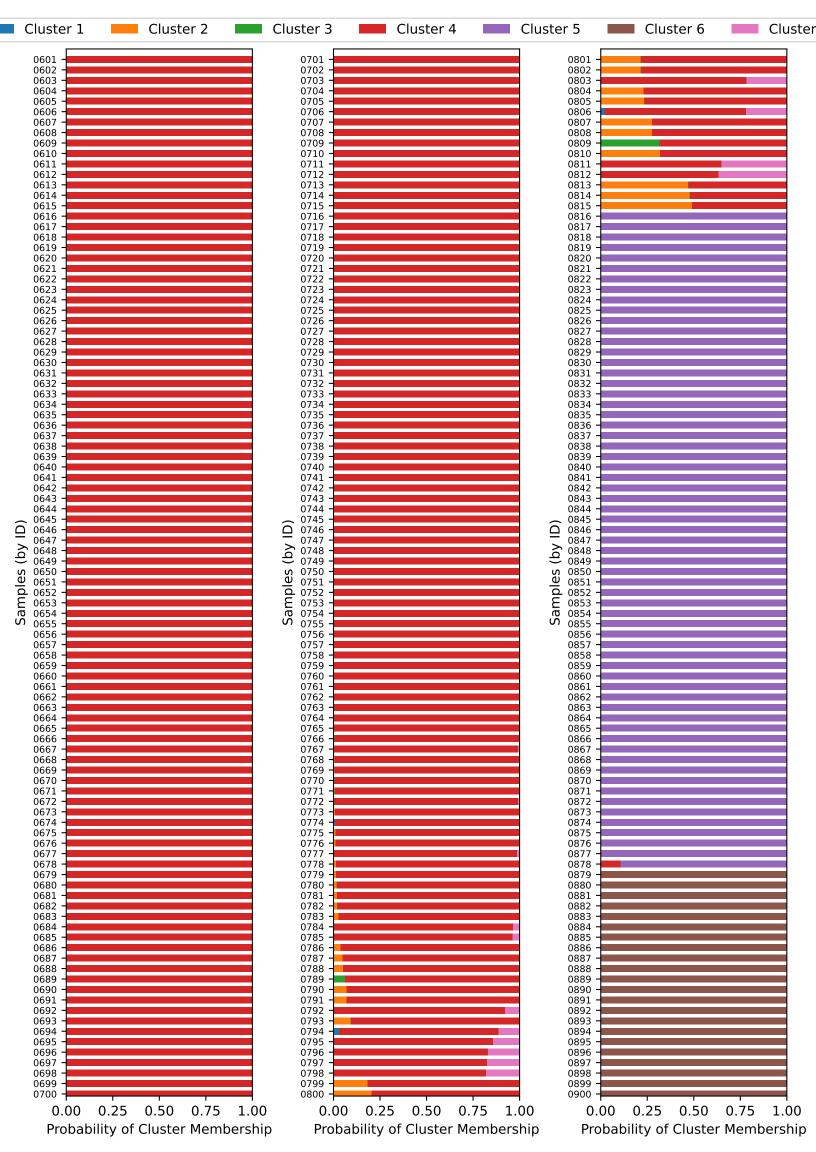
PCA Result Colour Coded Based on GMM Cluster Assignment Cluster 1 Cluster 5 1.00 1.00 • 2 0.98 0.90 0.96 0.80 0.94 0.71 0.61 0.91 1 Cluster 2 Cluster 6 1.00 0.91 0.81 0 0.72 PC2 (3.77%) 0.62 0.53 Cluster 3 Cluster 7 1.00 1.00 0.91 0.96 0.93 F 0.83 00 **-** 0.74 0.89 0.86 0.65 -2 0.82 0.57 Cluster 4 1.00 0.90 -3 0.80 0.71 0.61 0.51 6 -8 2 -6 -4 -2

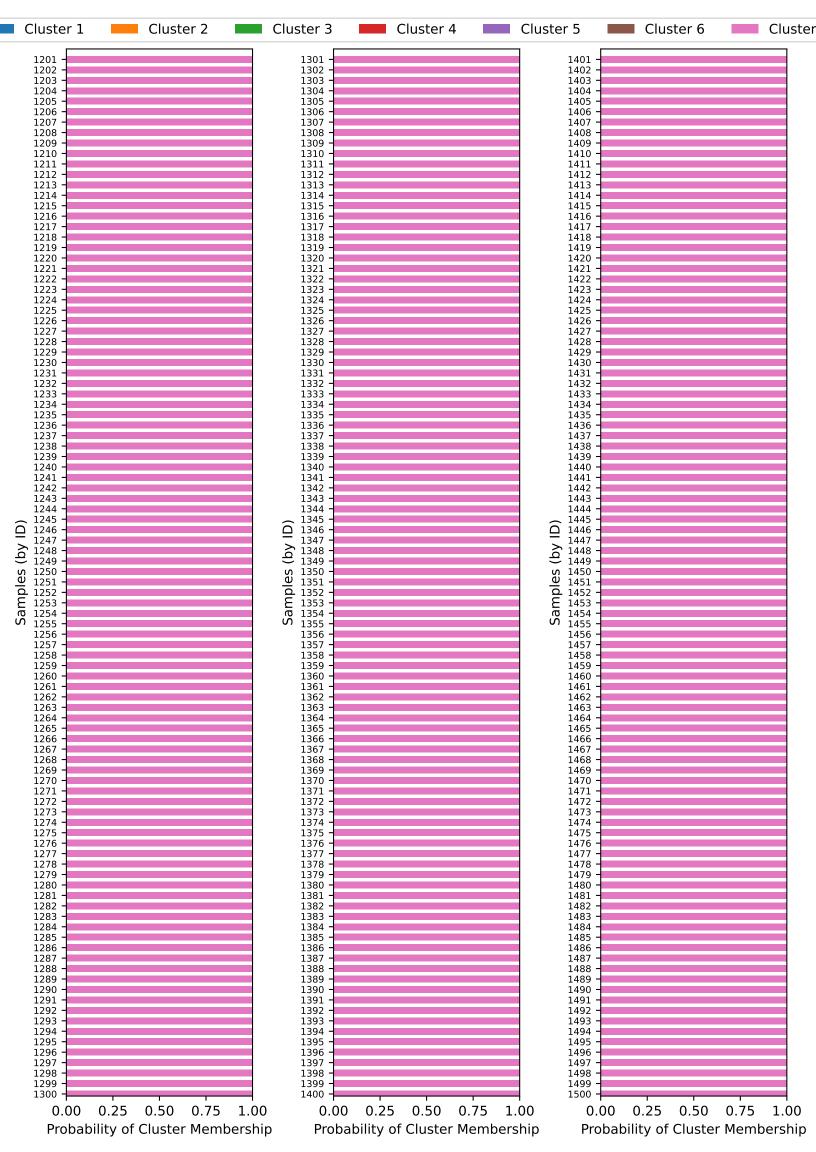
PC1 (82.99%)

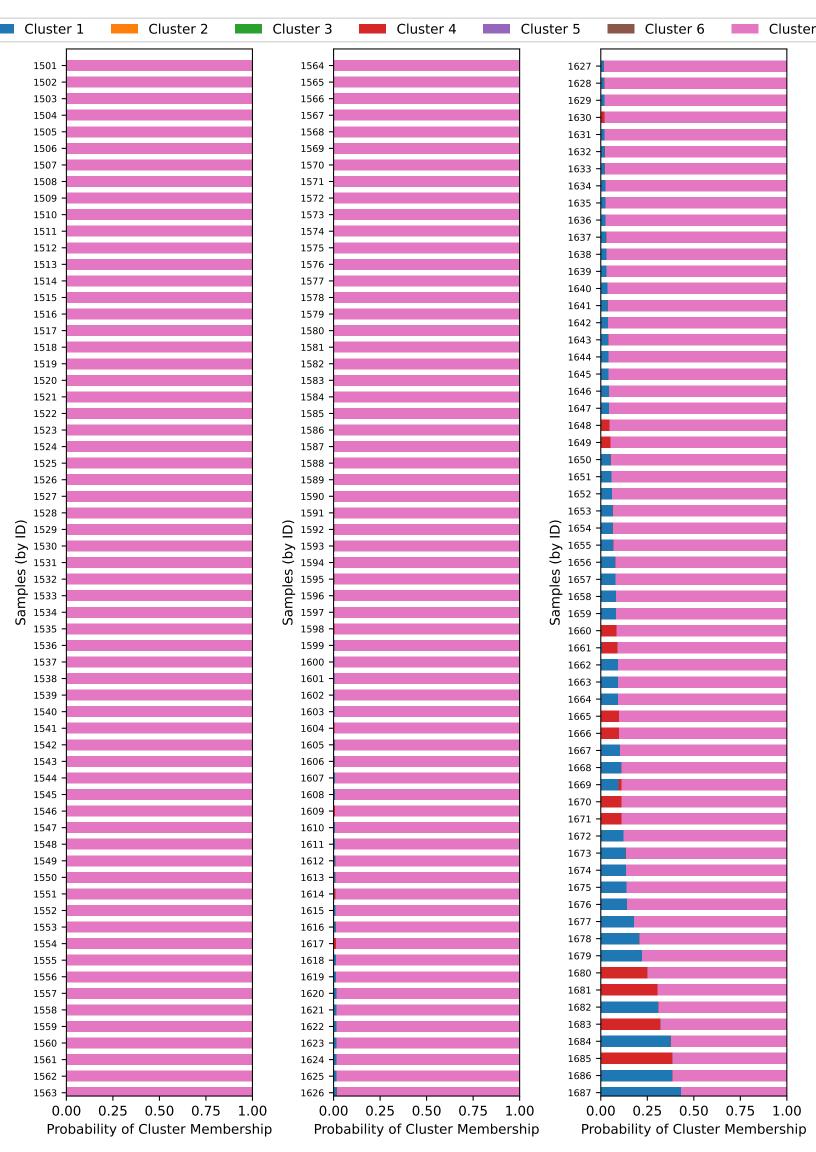




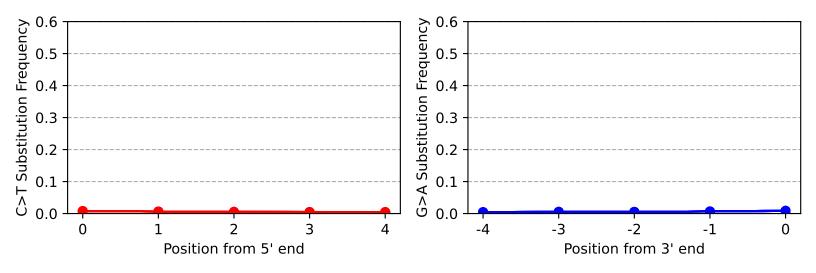




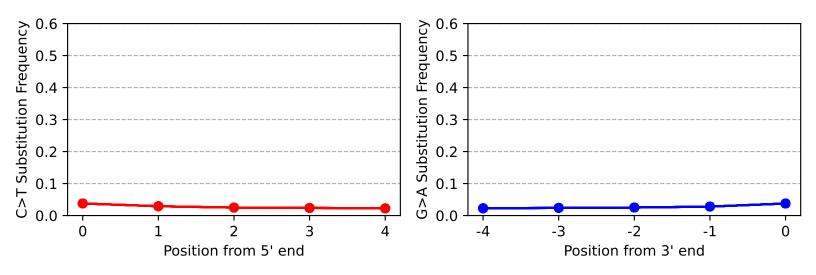




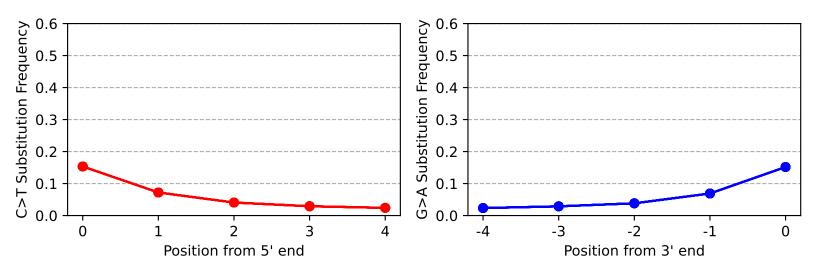
Representative Substitution Frequencies for Cluster 1 (GMM)



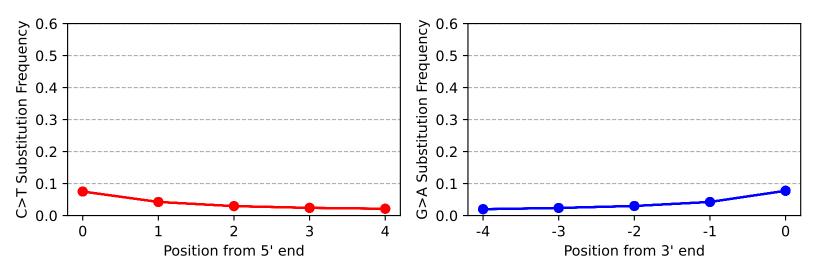
Representative Substitution Frequencies for Cluster 2 (GMM)



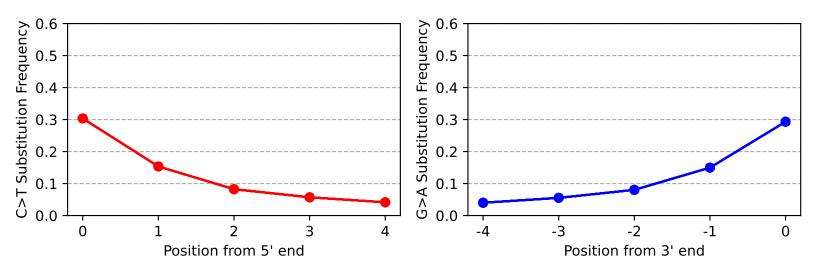
Representative Substitution Frequencies for Cluster 3 (GMM)



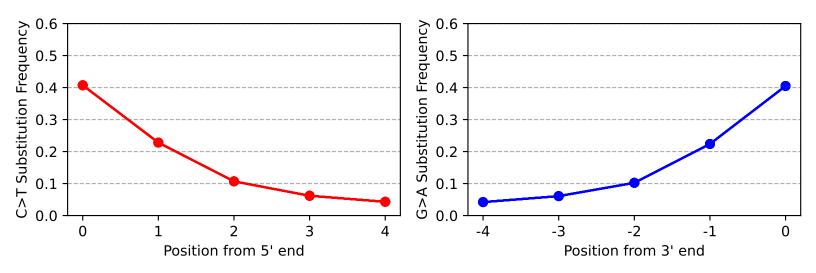
Representative Substitution Frequencies for Cluster 4 (GMM)



Representative Substitution Frequencies for Cluster 5 (GMM)



Representative Substitution Frequencies for Cluster 6 (GMM)



Representative Substitution Frequencies for Cluster 7 (GMM)

