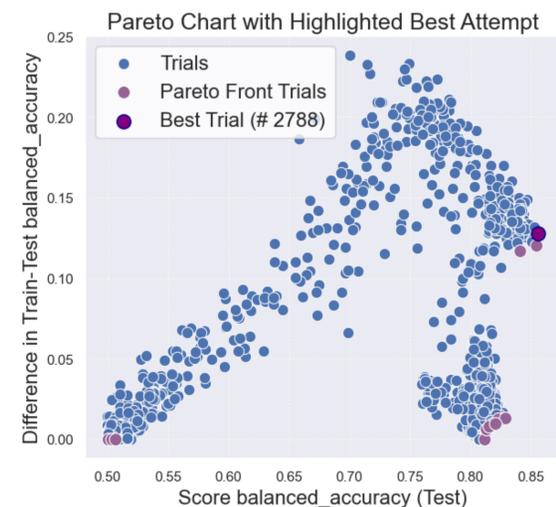
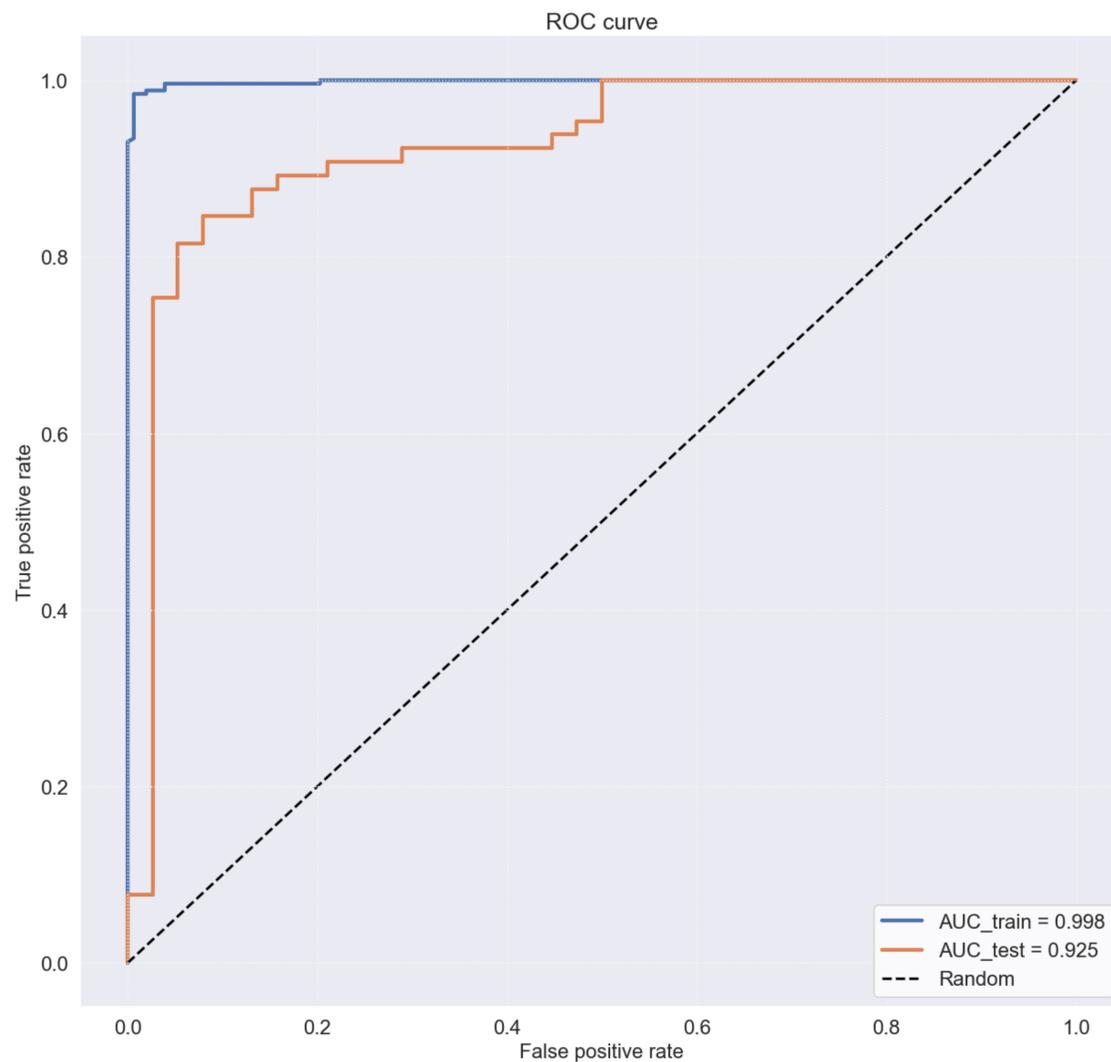
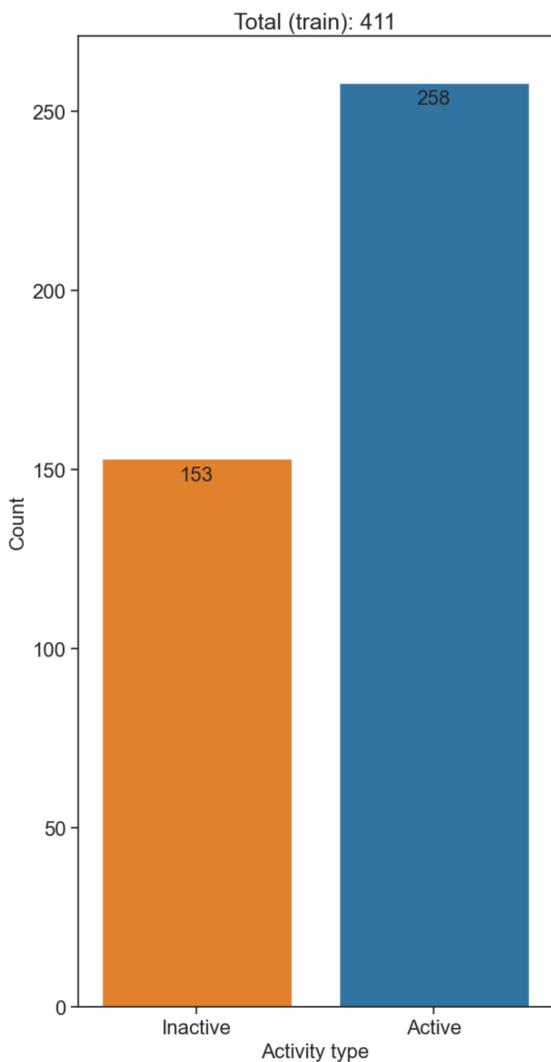
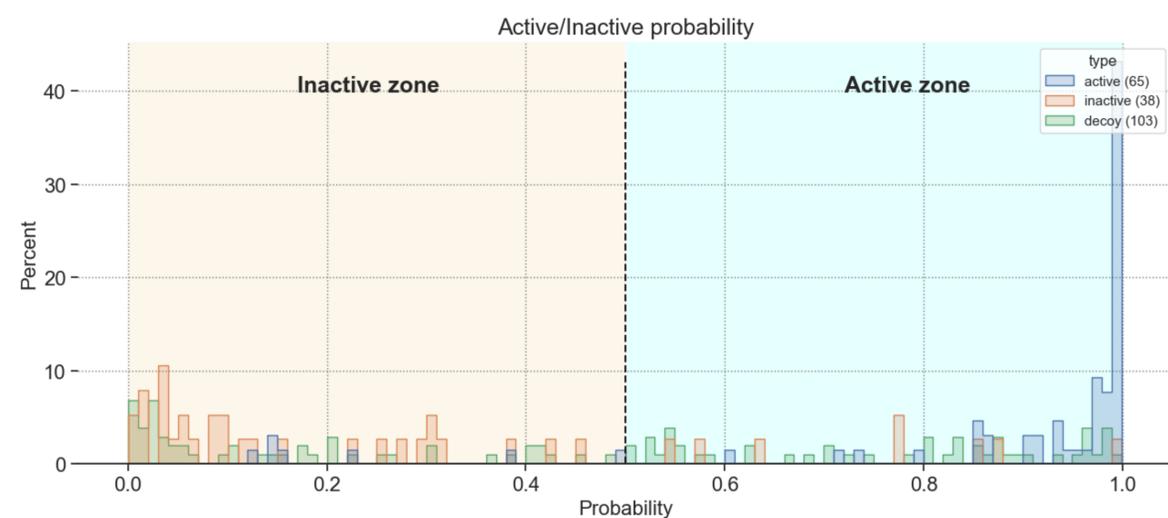
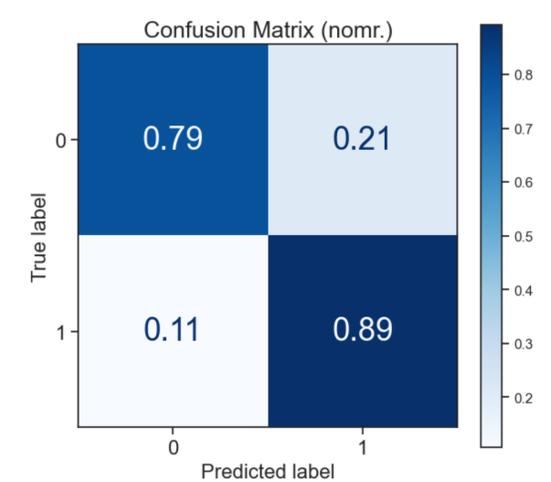
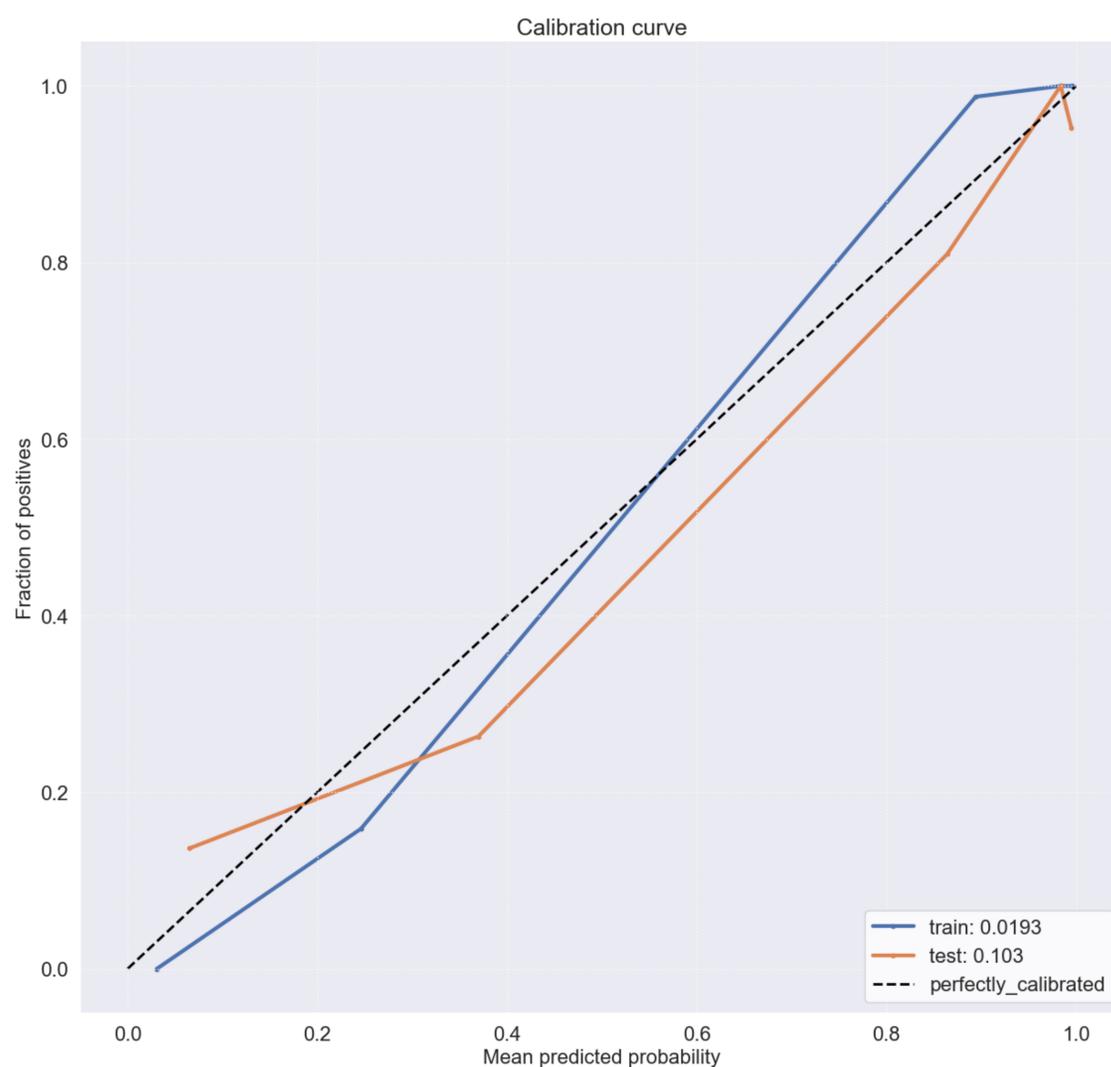
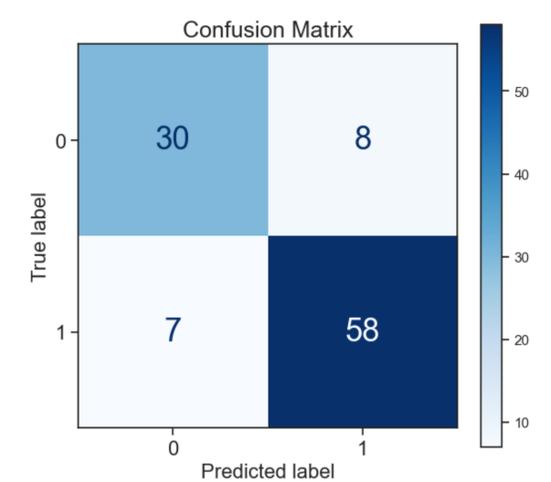


# Protein: P06213 - metric: balanced\_accuracy

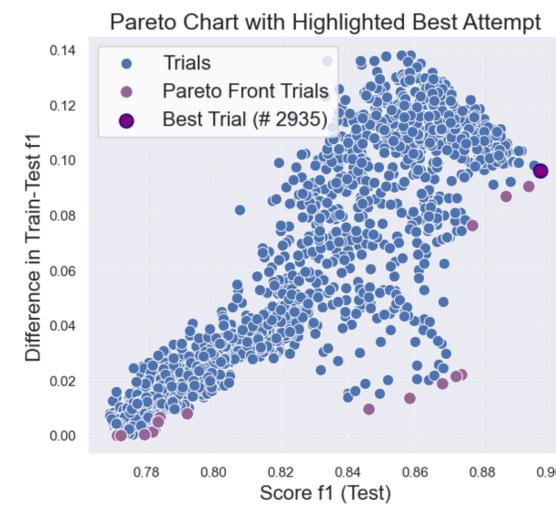
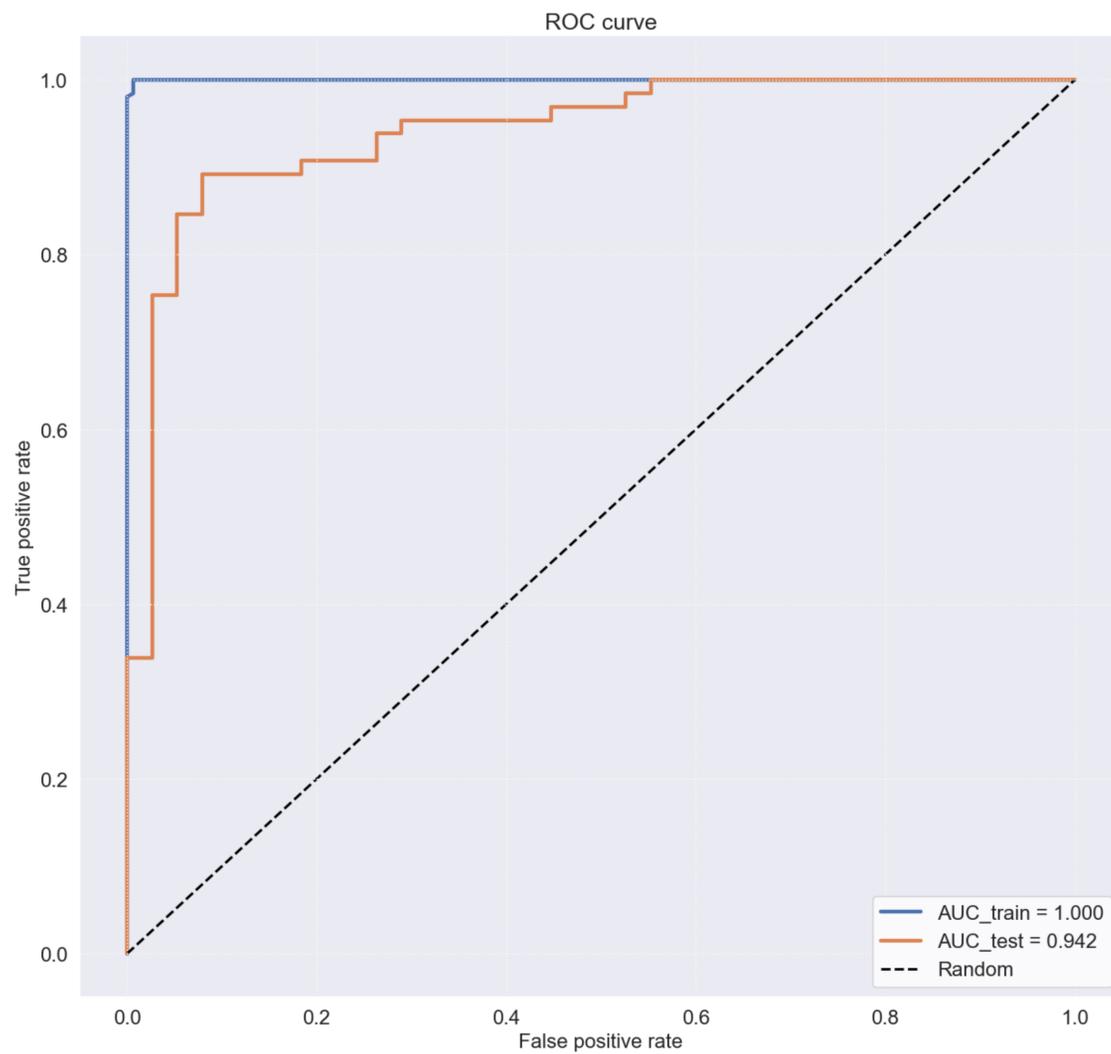
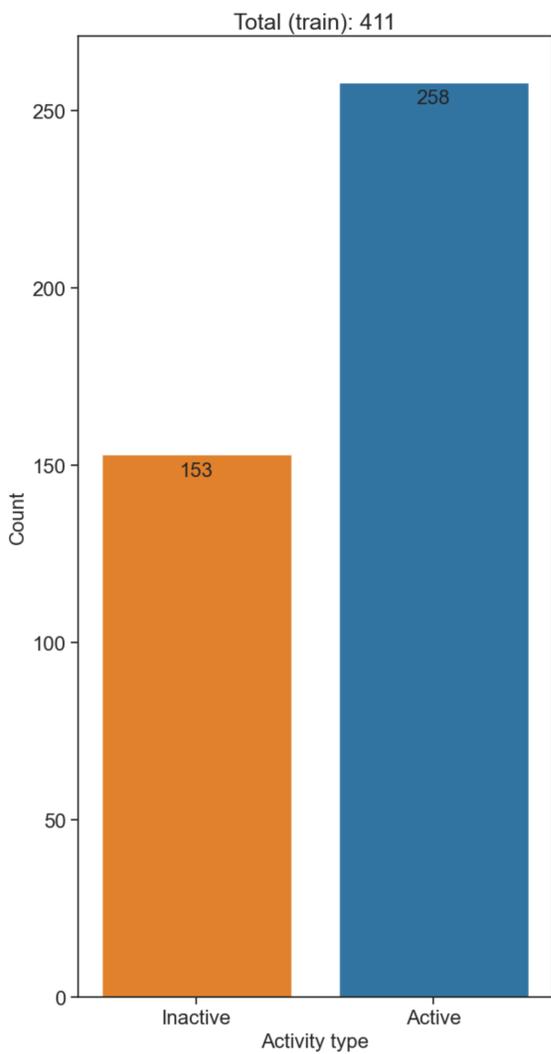


XGBoost Parameters	Value
alpha	1.4574
colsample_bytree	0.7944
gamma	0.963
lambda	0.0386
learning_rate	0.0998
max_depth	10.0
min_child_weight	2.0
n_estimators	878.0
reg_alpha	0.0532
reg_lambda	0.4472
scale_pos_weight	1.0672
subsample	0.608

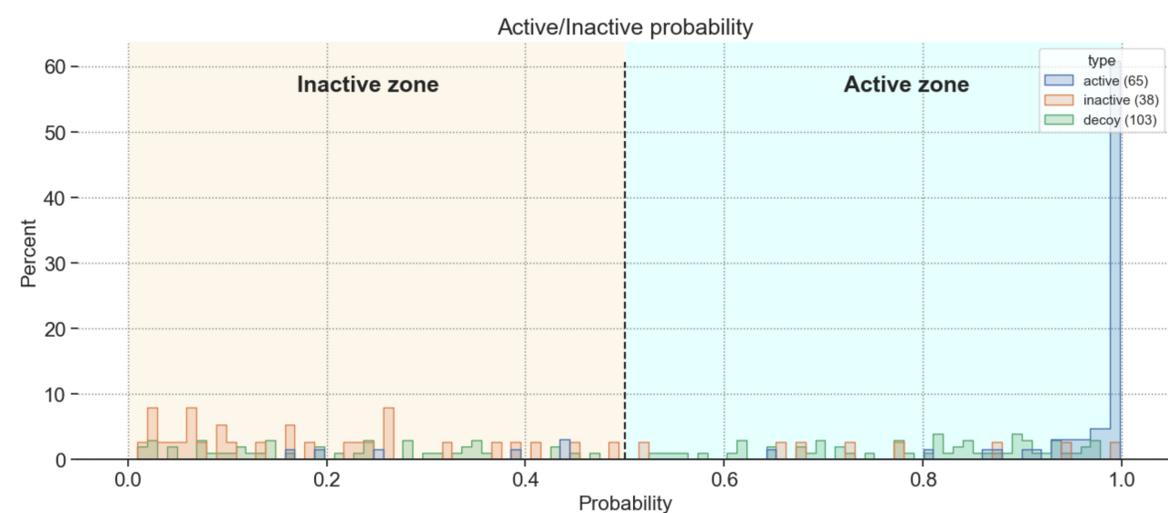
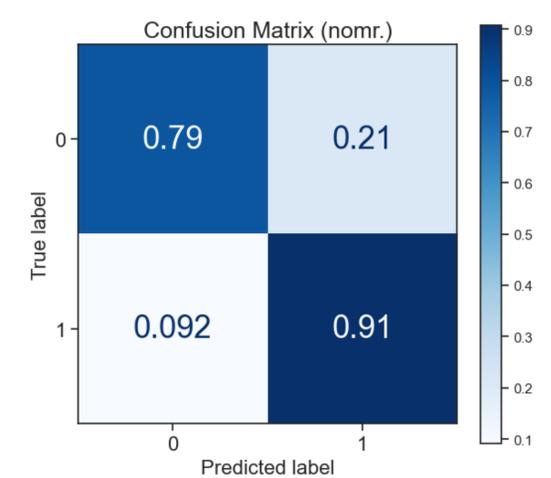
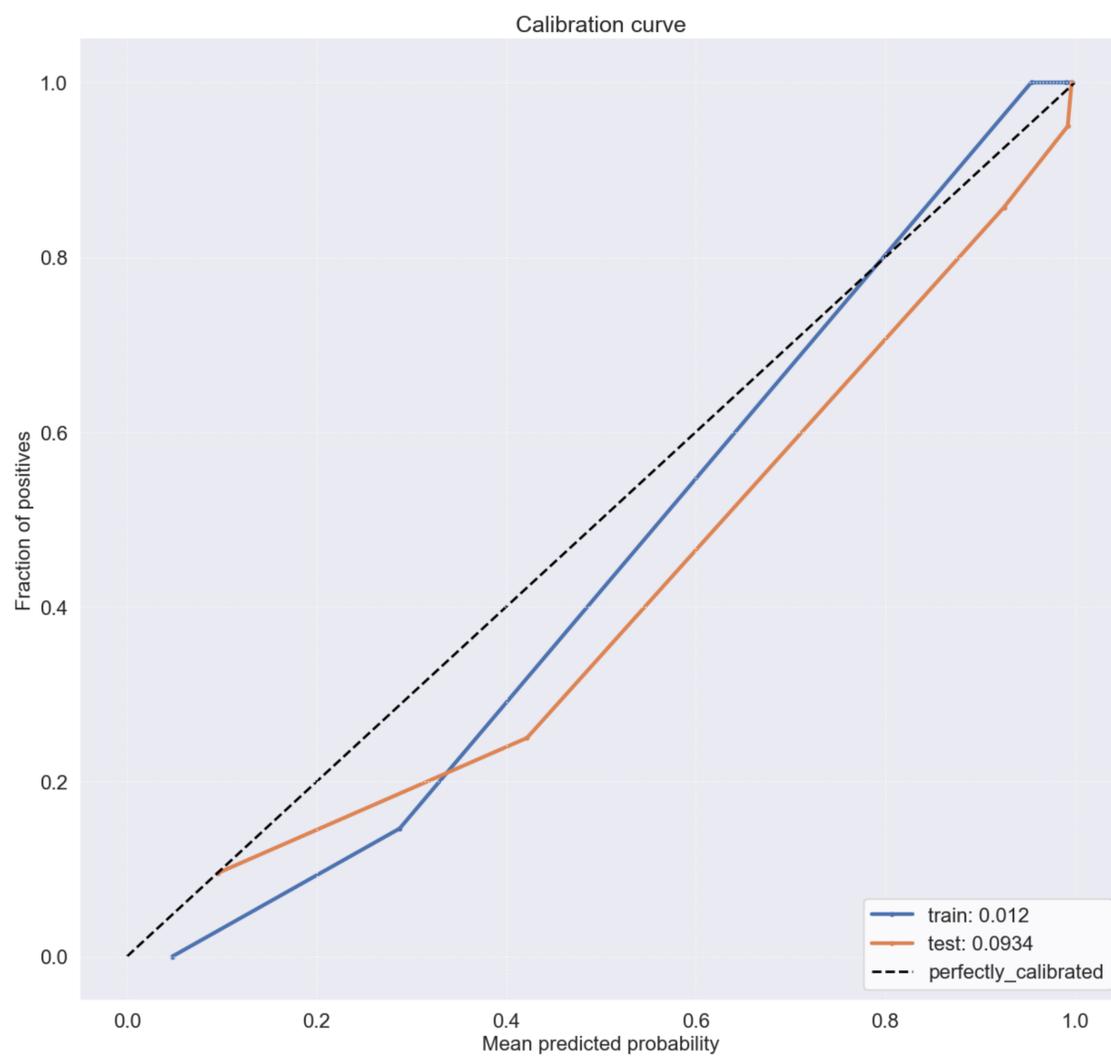
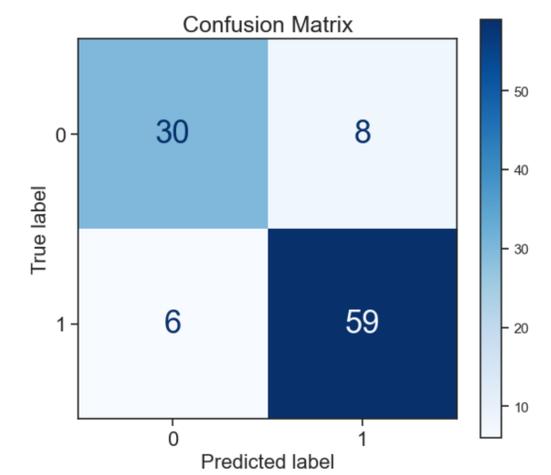


Metric	Train	Test
AUC	0.9985	0.9251
accuracy	0.9805	0.8544
balanced accuracy	0.9778	0.8409
recall_(sens)	0.9884	0.8923
specificity	0.9673	0.7895
precision	0.9808	0.8788
f1_score	0.9805	0.854

# Protein: P06213 - metric: f1

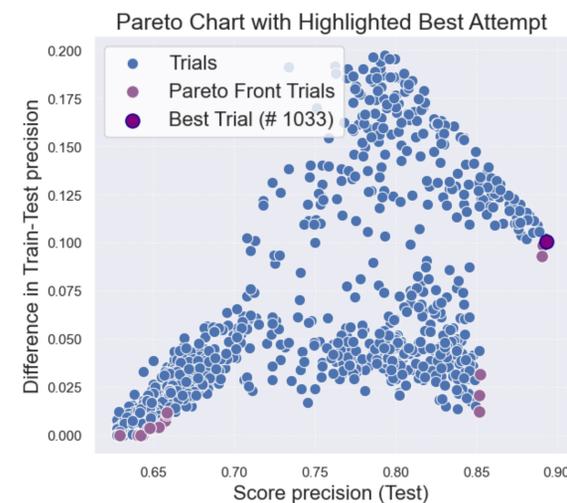
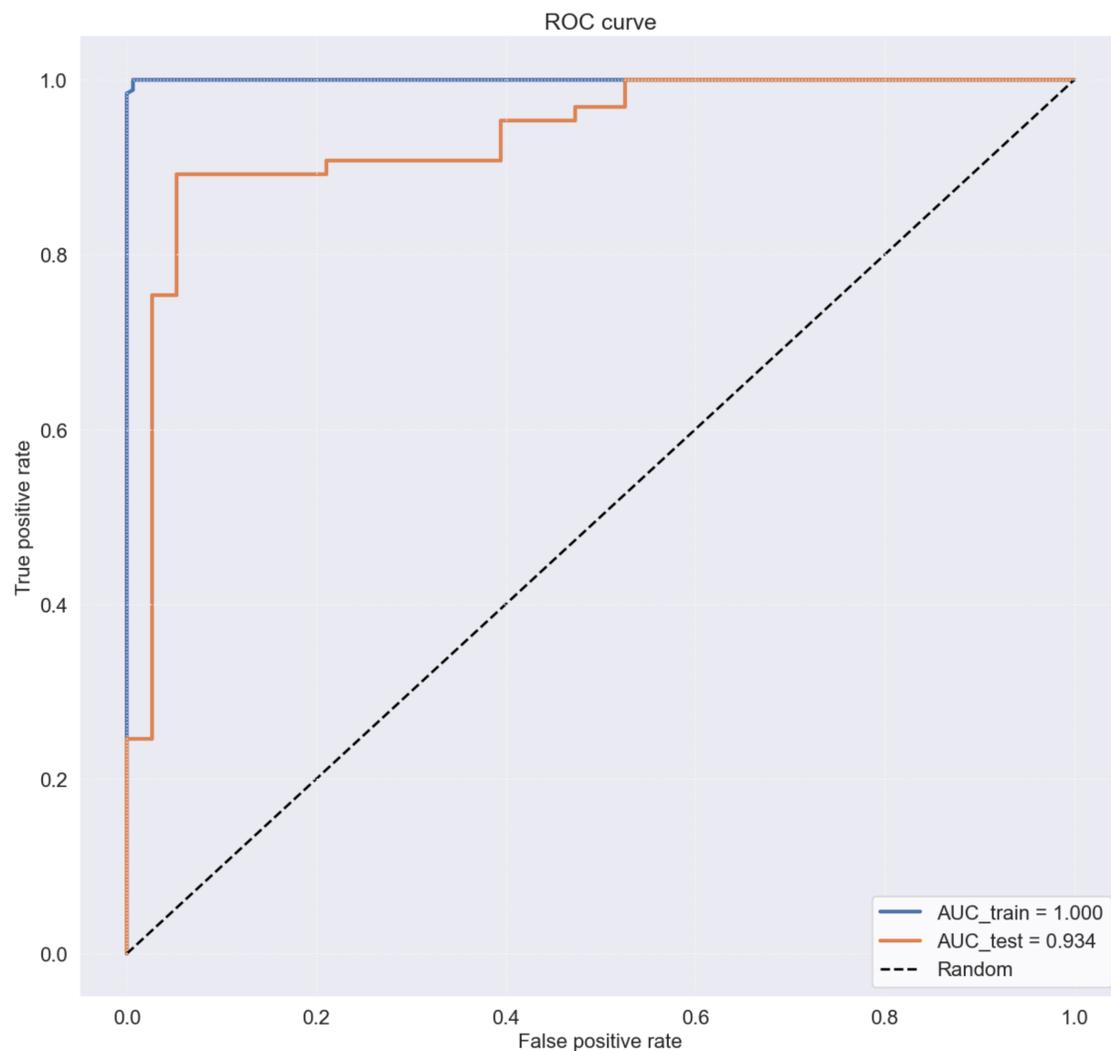
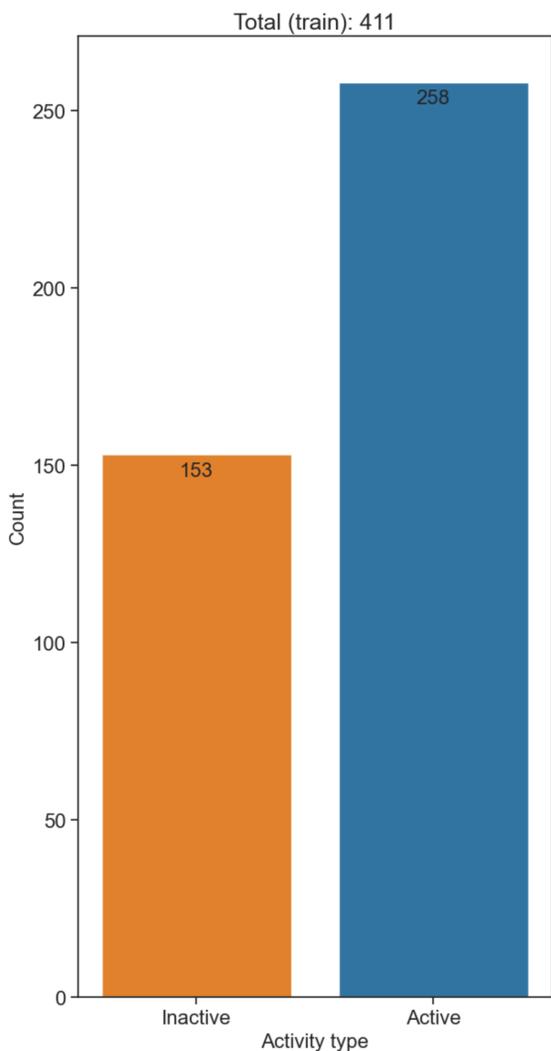


XGBoost Parameters	Value
alpha	3.533
colsample_bytree	0.7193
gamma	0.7841
lambda	4.5179
learning_rate	0.023
max_depth	10.0
min_child_weight	1.0
n_estimators	502.0
reg_alpha	0.1448
reg_lambda	0.0253
scale_pos_weight	2.6219
subsample	0.7166

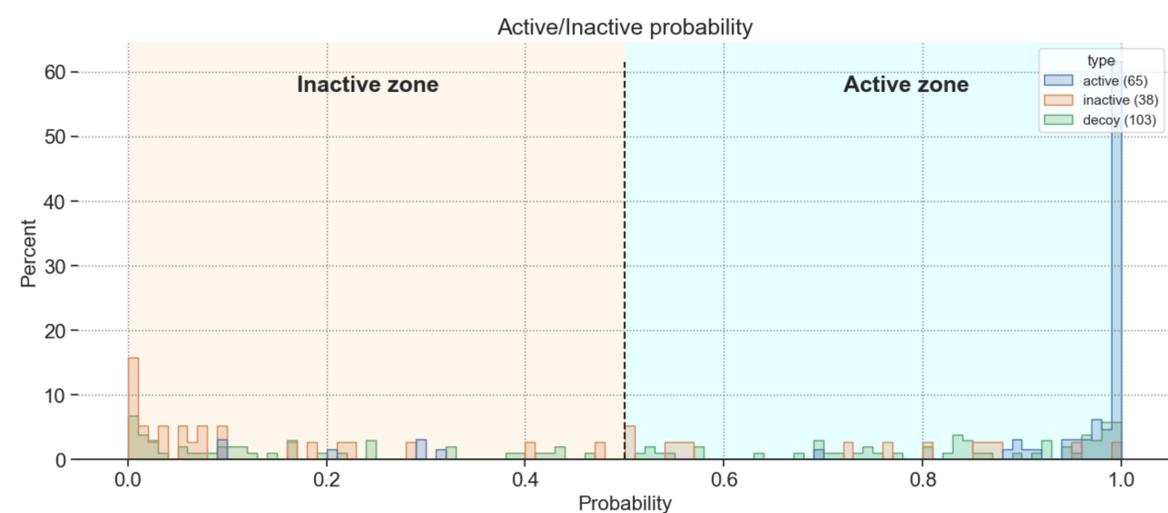
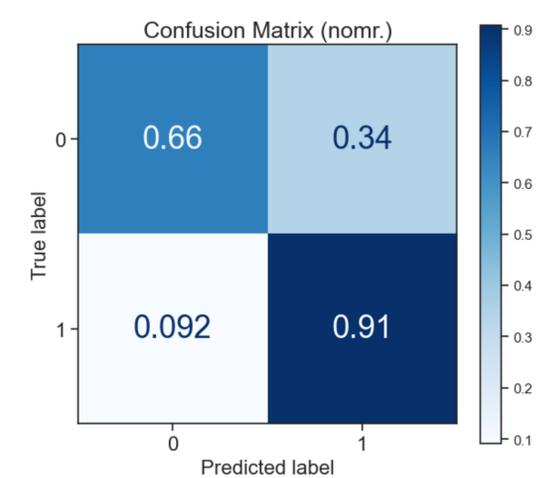
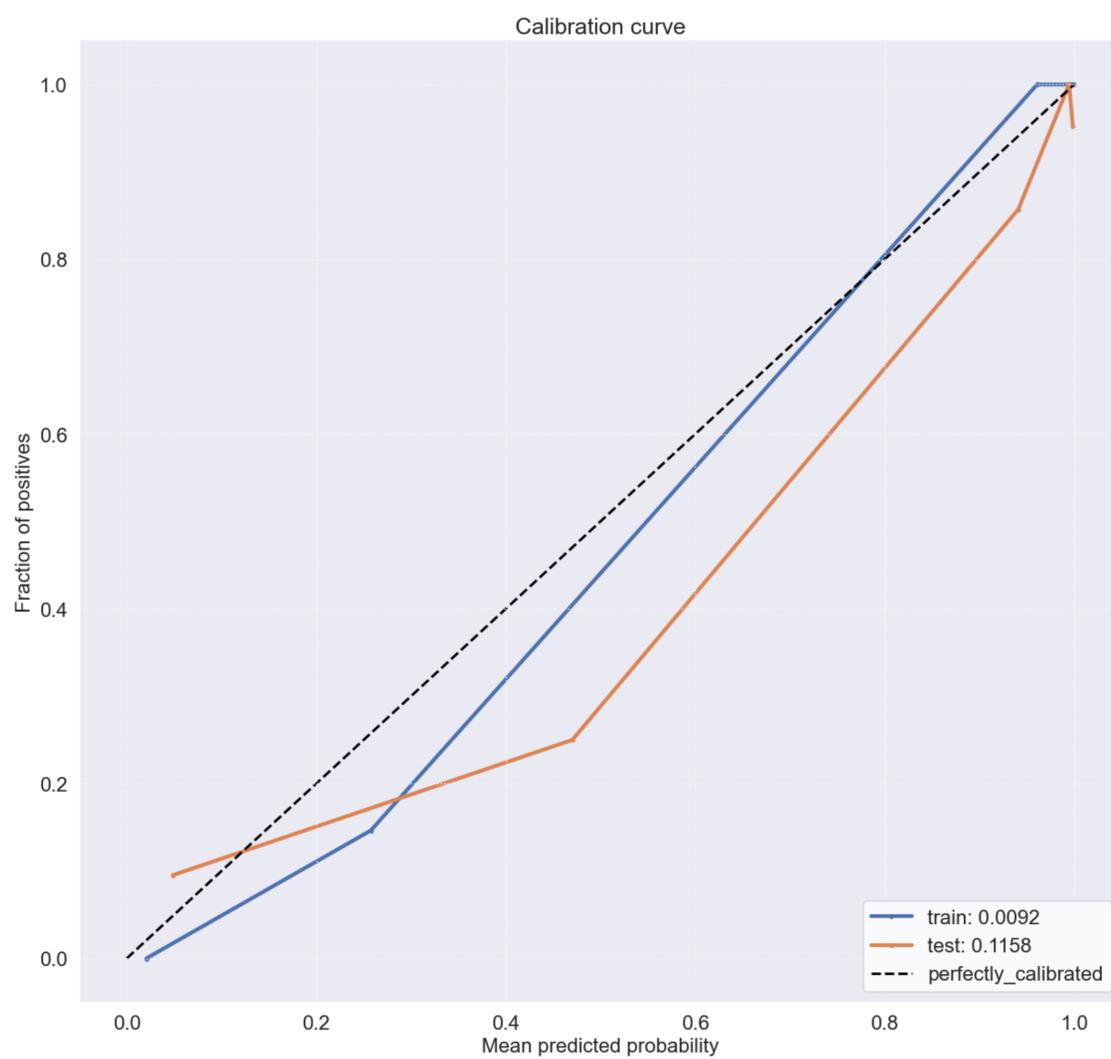
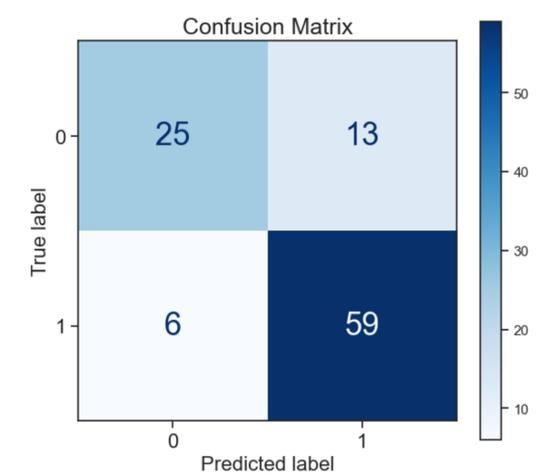


Metric	Train	Test
AUC	0.9999	0.9417
accuracy	0.9927	0.8641
balanced accuracy	0.9902	0.8486
recall_(sens)	1.0	0.9077
specificity	0.9804	0.7895
precision	0.9885	0.8806
f1_score	0.9927	0.8633

# Protein: P06213 - metric: precision

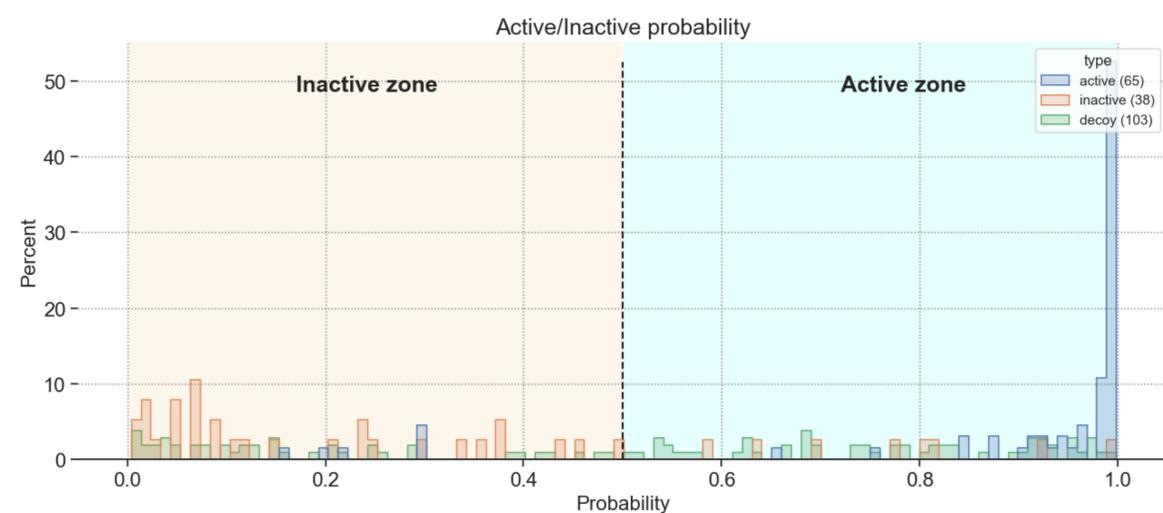
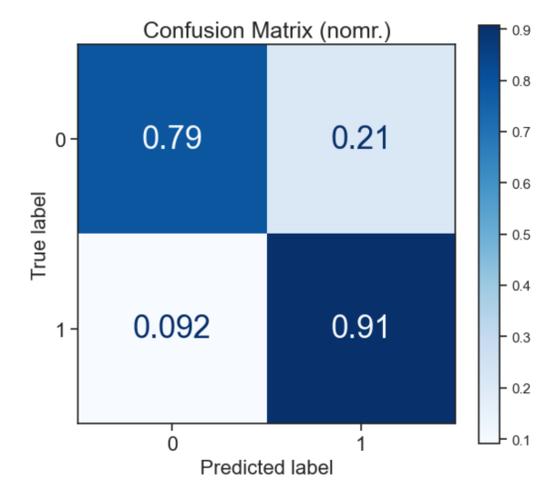
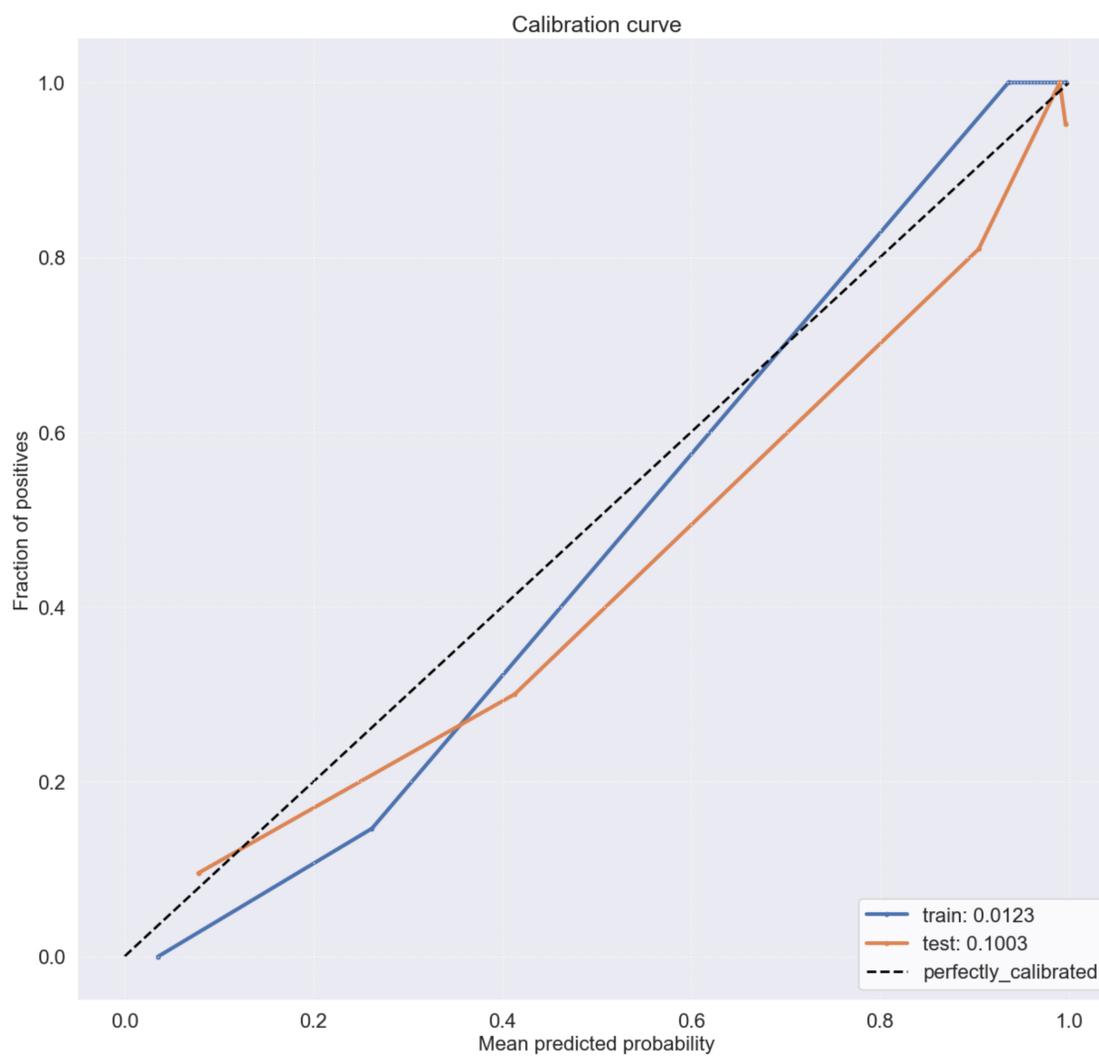
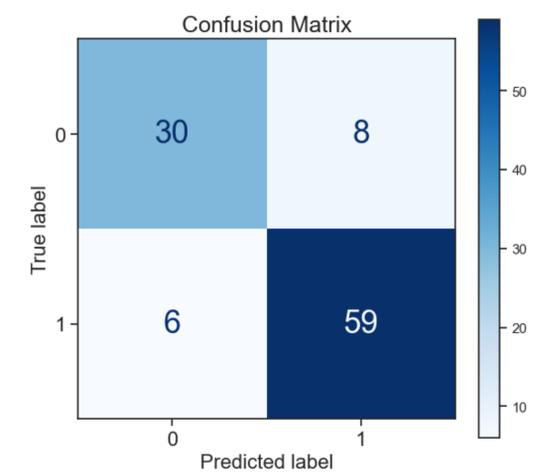
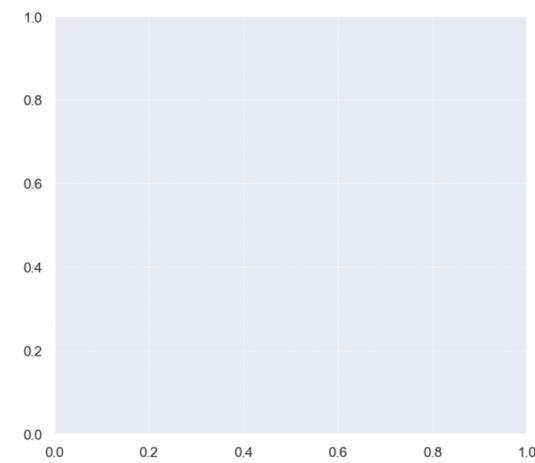
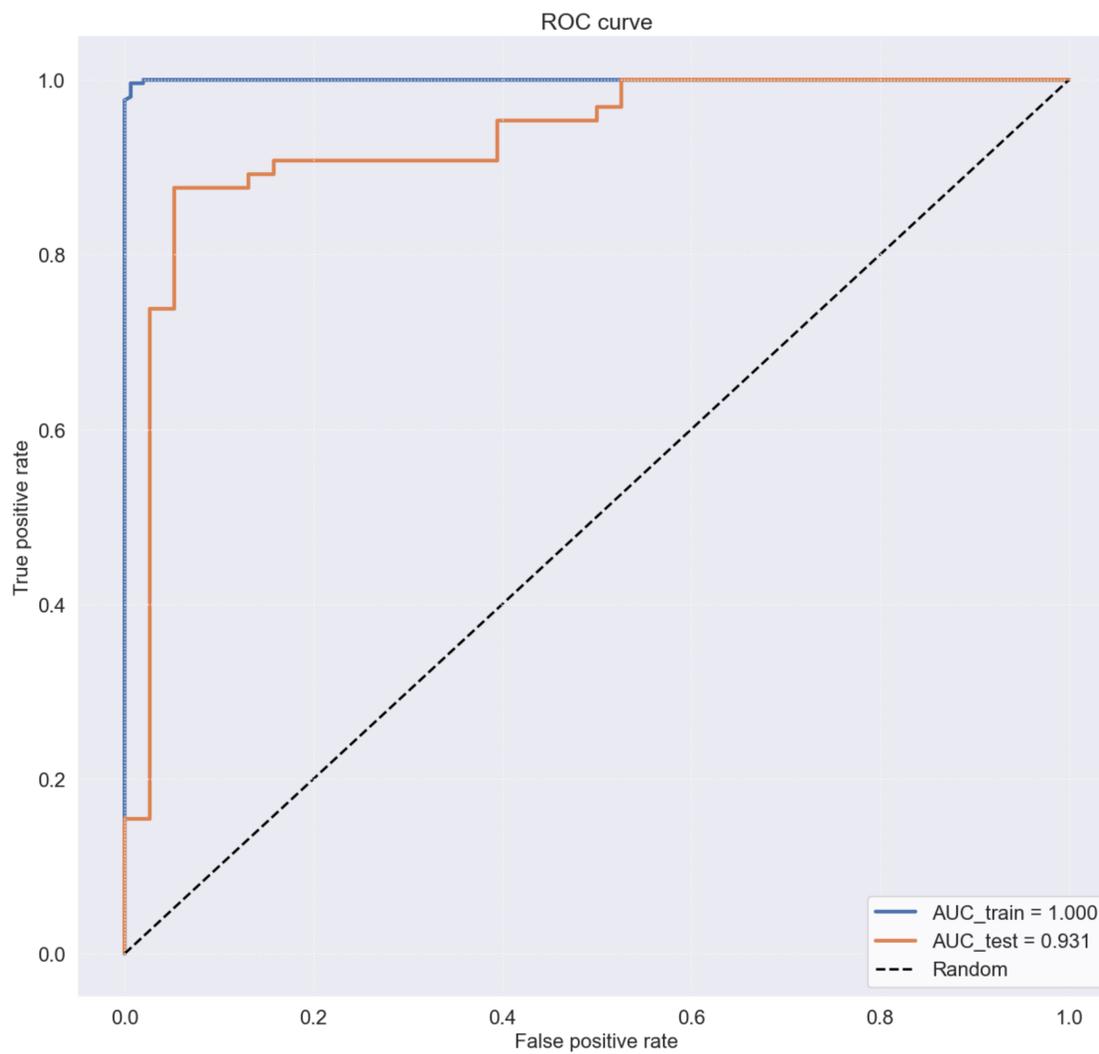
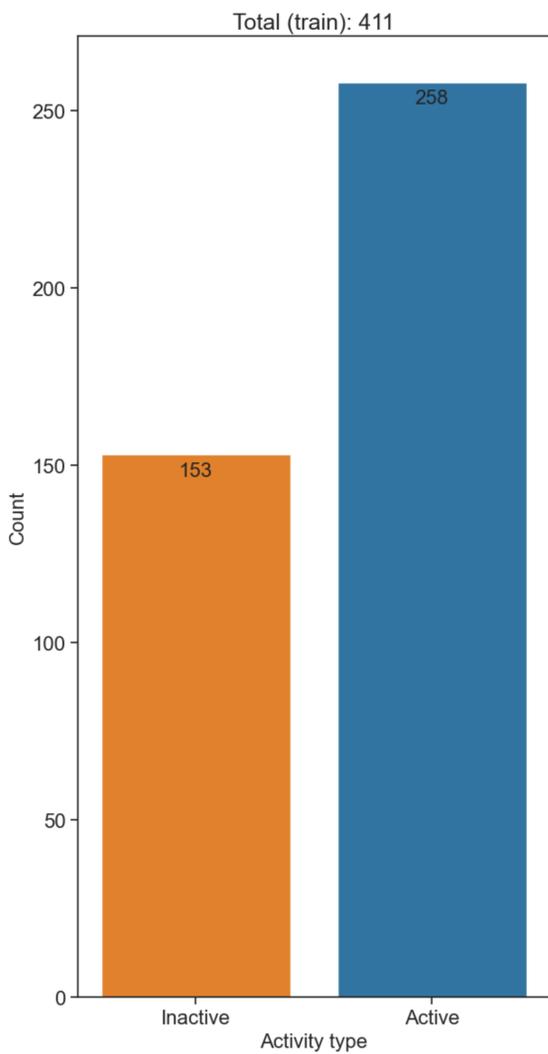


XGBoost Parameters	Value
alpha	2.728
colsample_bytree	0.7487
gamma	0.5311
lambda	3.6587
learning_rate	0.1589
max_depth	5.0
min_child_weight	1.0
n_estimators	975.0
reg_alpha	0.3405
reg_lambda	0.8213
scale_pos_weight	2.2065
subsample	0.6879



Metric	Train	Test
AUC	0.9999	0.9344
accuracy	0.9927	0.8155
balanced accuracy	0.9902	0.7828
recall_(sens)	1.0	0.9077
specificity	0.9804	0.6579
precision	0.9885	0.8194
f1_score	0.9927	0.8109

# Protein: P06213 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9998	0.9308
accuracy	0.9903	0.8641
balanced accuracy	0.9869	0.8486
recall_(sens)	1.0	0.9077
specificity	0.9739	0.7895
precision	0.9847	0.8806
f1_score	0.9902	0.8633