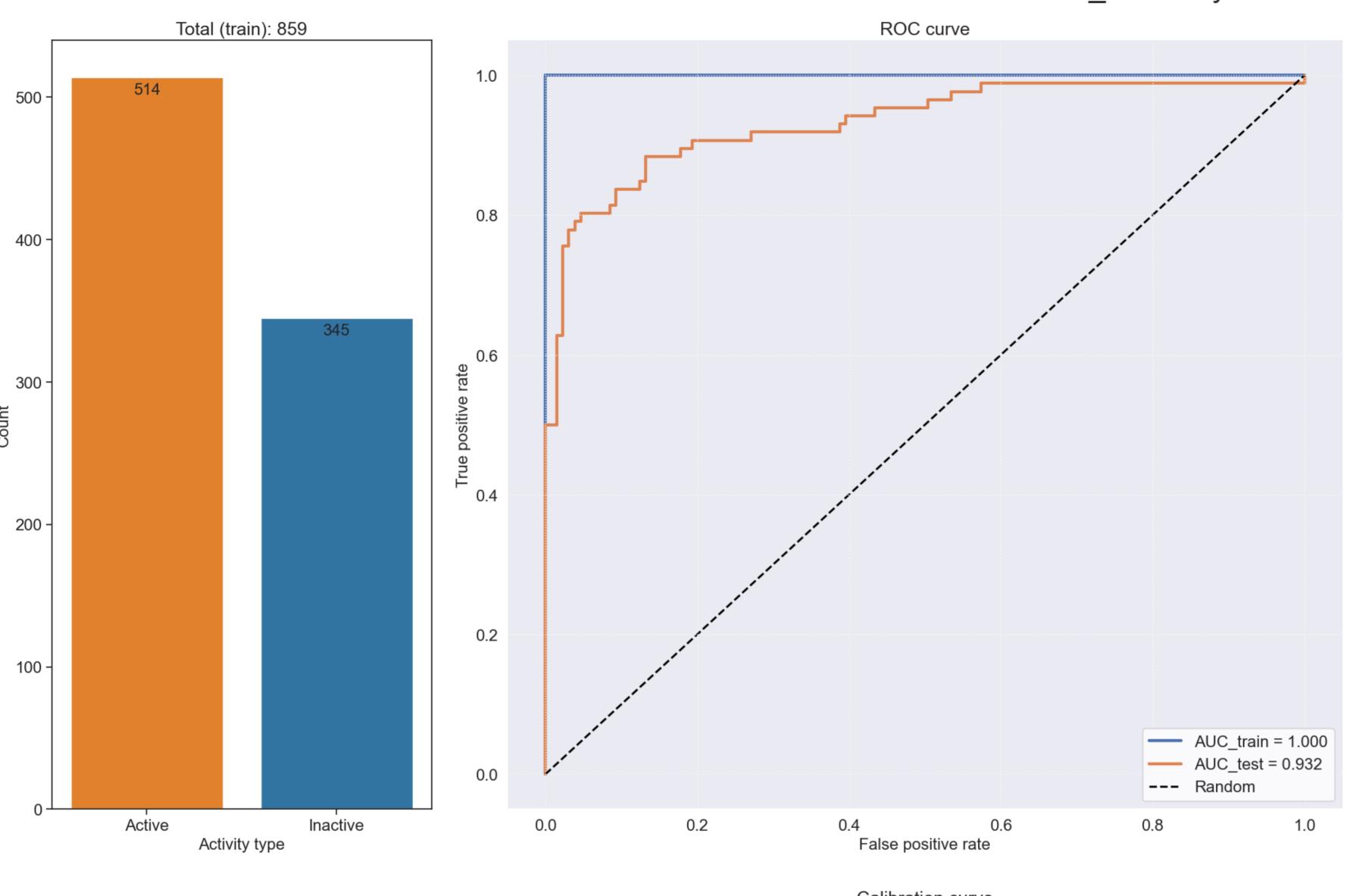
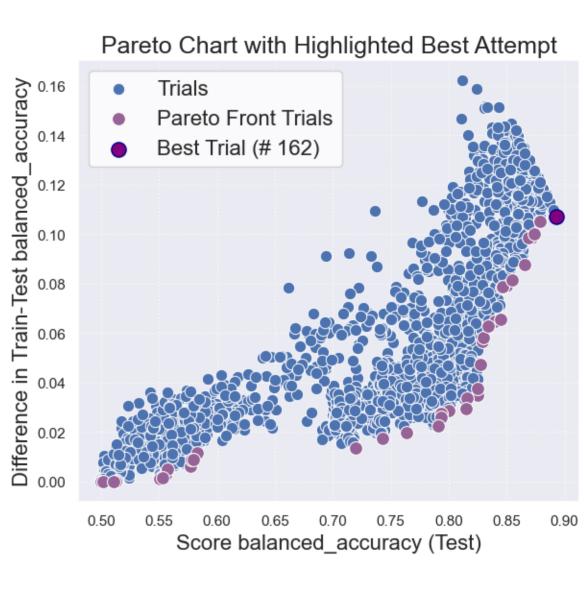
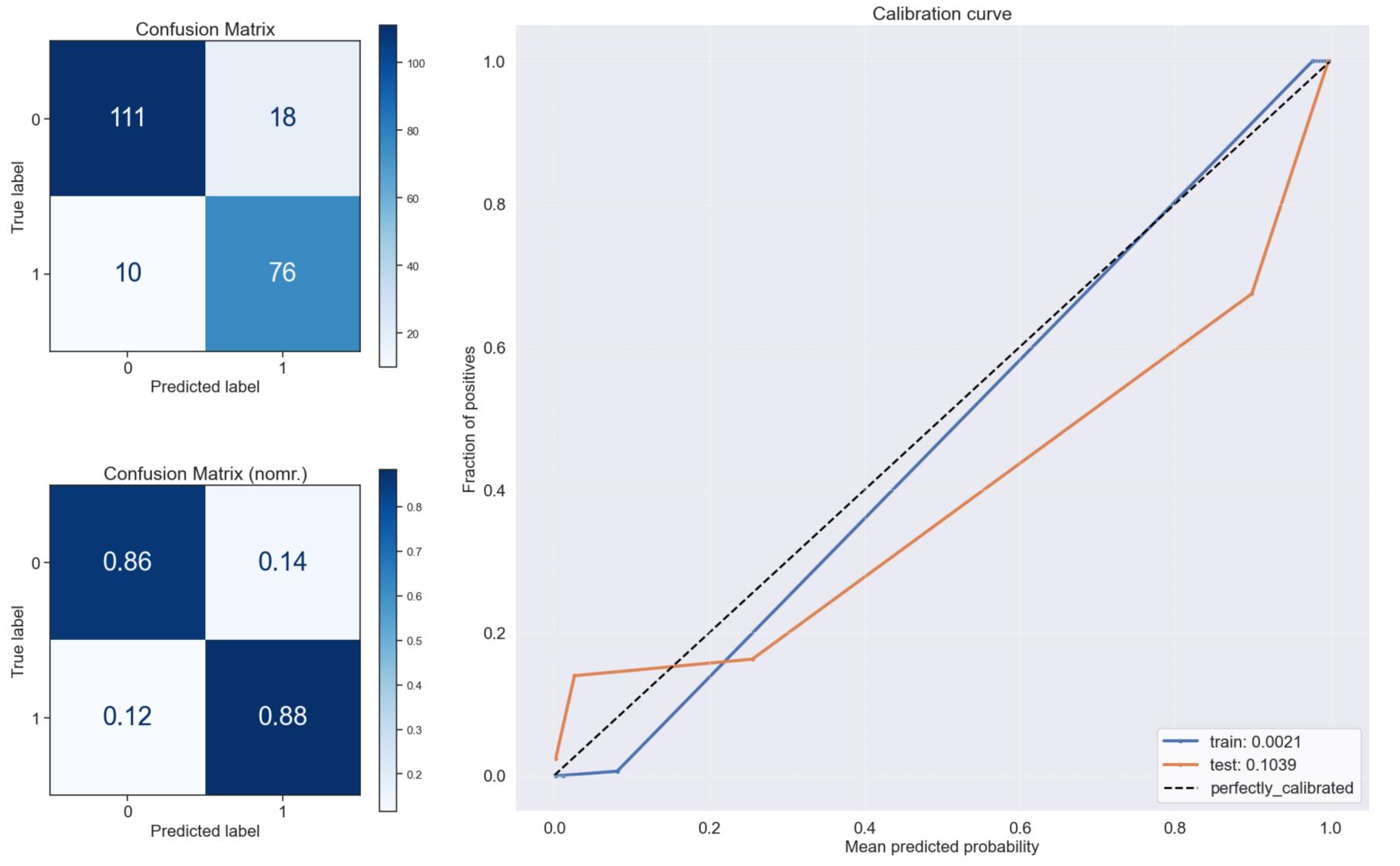
Protein: P09619 - metric: balanced_accuracy





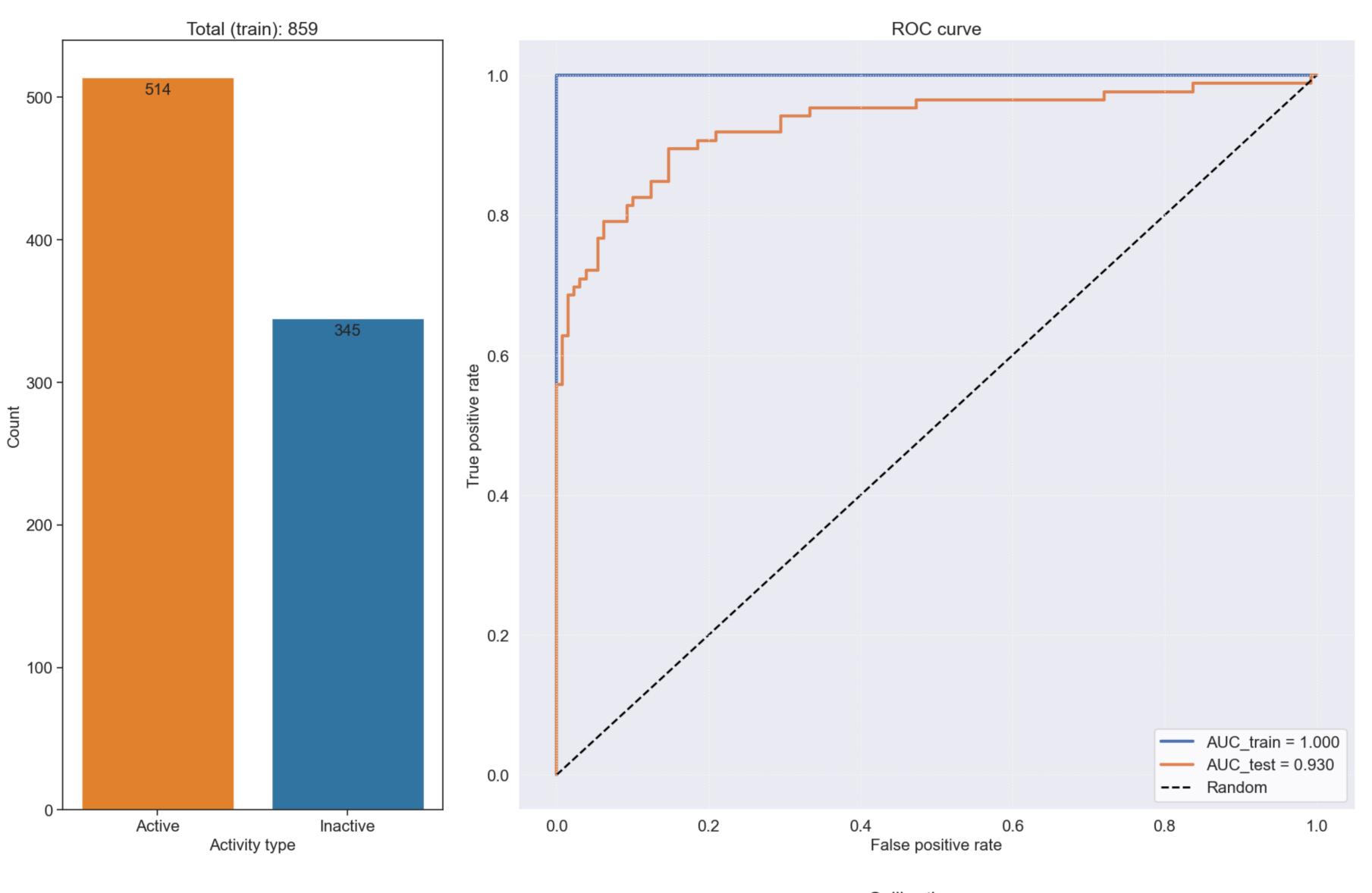
XGBoost Parameters	Value
alpha	1.5916
colsample_bytree	0.526
gamma	0.2089
lambda	4.628
learning_rate	0.2471
max_depth	6.0
min_child_weight	1.0
n_estimators	631.0
reg_alpha	0.2192
reg_lambda	0.9673
scale_pos_weight	3.4603
subsample	0.5835

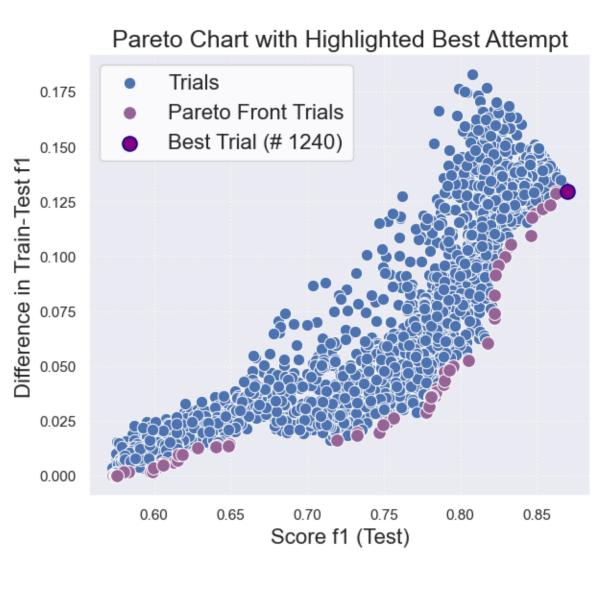


			Active/Inactive pr	obability		
50	I	nactive zone			Active zone	type active (86) inactive (129) decoy (215)
40						
Percent						
10	1-1_					
0 —		0.2	0.4	0.6	0.8	10
	0.0	0.2	Probability		0.0	1.0

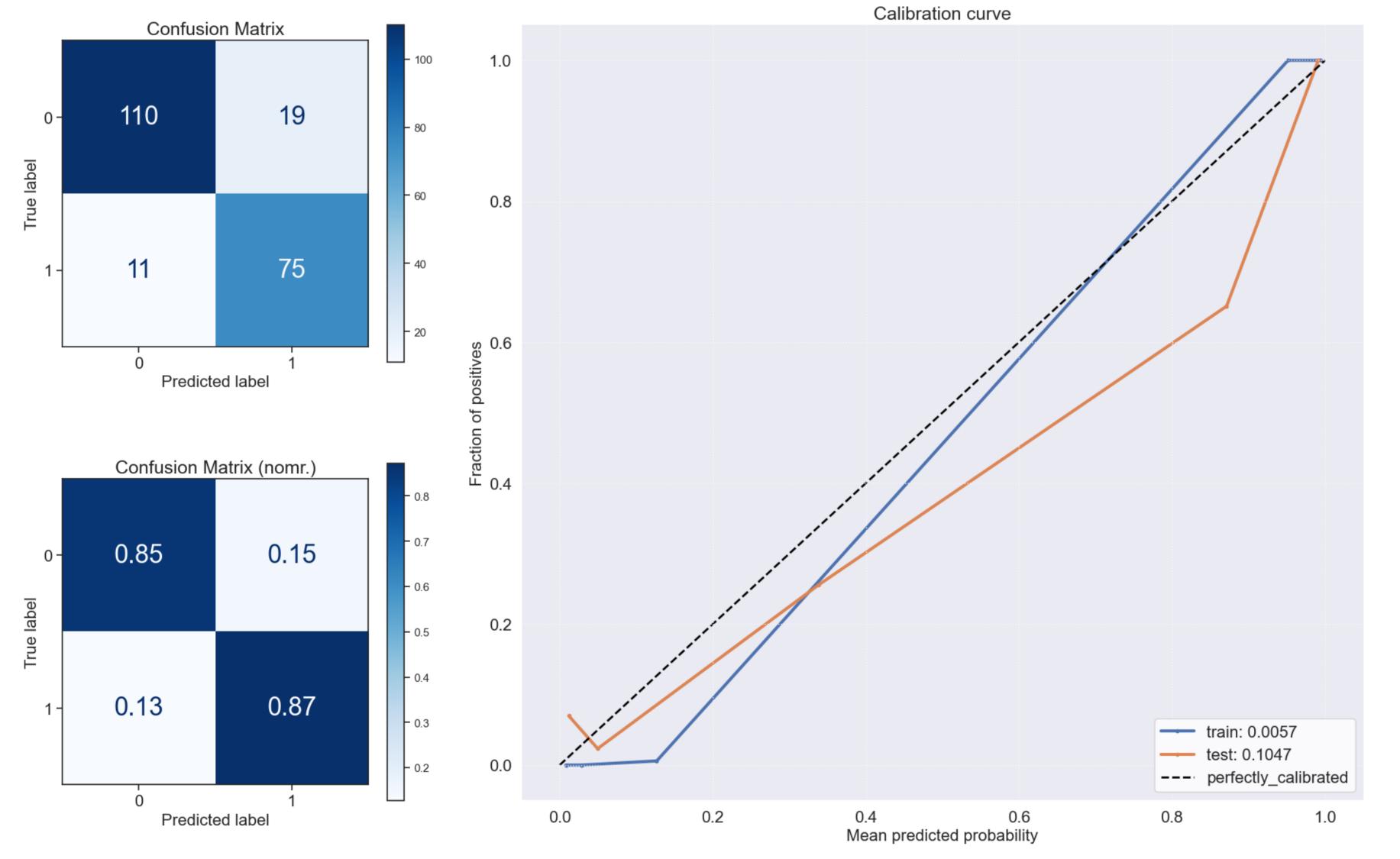
Metric	Train	Test
AUC	1.0	0.9321
accuracy	1.0	0.8698
balanced accuracy	1.0	0.8721
recall_(sens)	1.0	0.8837
specificity	1.0	0.8605
precision	1.0	0.8085
f1_score	1.0	0.8706

Protein: P09619 - metric: f1





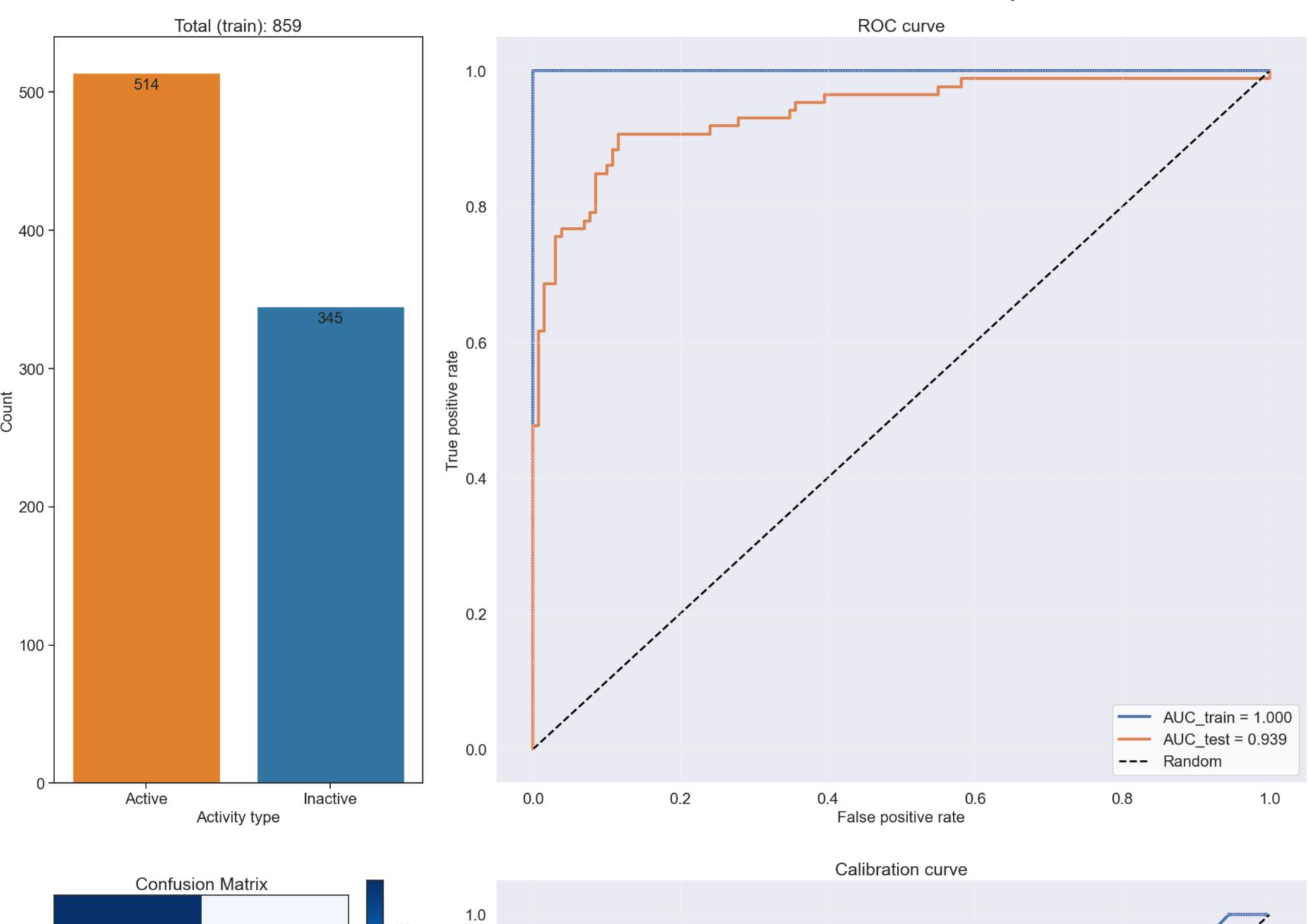
XGBoost Parameters	Value
alpha	1.9227
colsample_bytree	0.7857
gamma	0.2252
lambda	2.0426
learning_rate	0.0312
max_depth	9.0
min_child_weight	1.0
n_estimators	660.0
reg_alpha	0.395
reg_lambda	0.6874
scale_pos_weight	2.843
subsample	0.8562

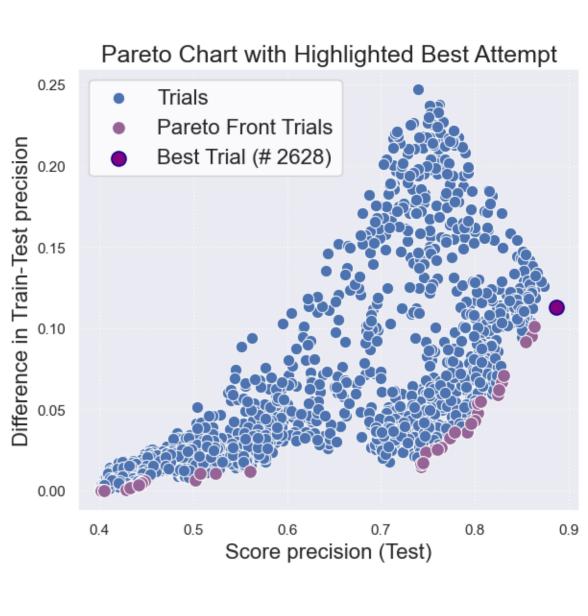


			Active/Inactive	e probability		
0.0			•		Active zone	inactive (129) decoy (215)
05						
Percent 05						
10						
5						
0	0.0	0.2	0.4	0.6	0.8	1.0
			Probal			

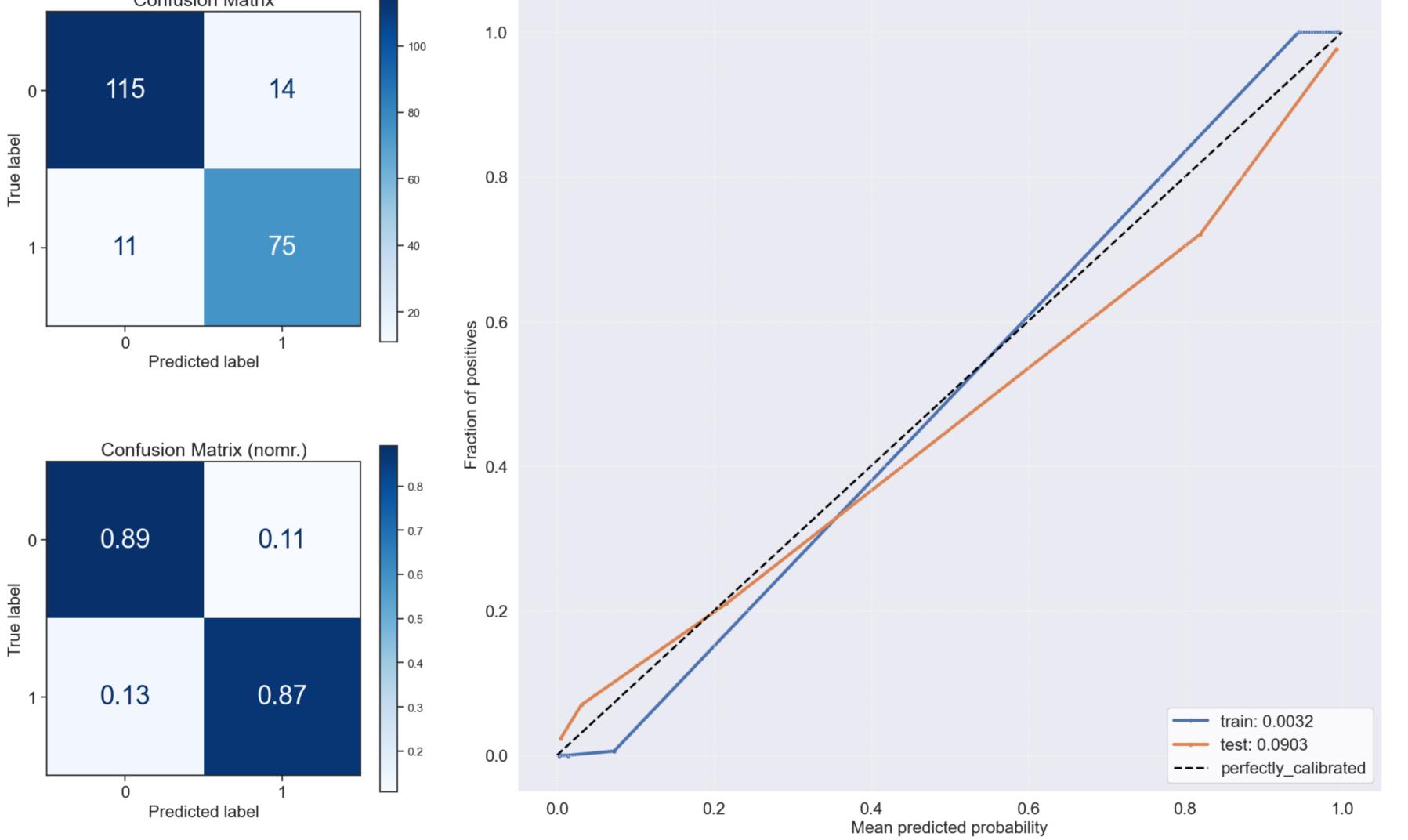
Metric	Train	Test
AUC	1.0	0.93
accuracy	1.0	0.8605
balanced accuracy	1.0	0.8624
recall_(sens)	1.0	0.8721
specificity	1.0	0.8527
precision	1.0	0.7979
f1_score	1.0	0.8613

Protein: P09619 - metric: precision





XGBoost Parameters	Value
alpha	1.3845
colsample_bytree	0.9985
gamma	0.1315
lambda	1.9582
learning_rate	0.1188
max_depth	6.0
min_child_weight	1.0
n_estimators	503.0
reg_alpha	0.3219
reg_lambda	0.7959
scale_pos_weight	1.3947
subsample	0.691

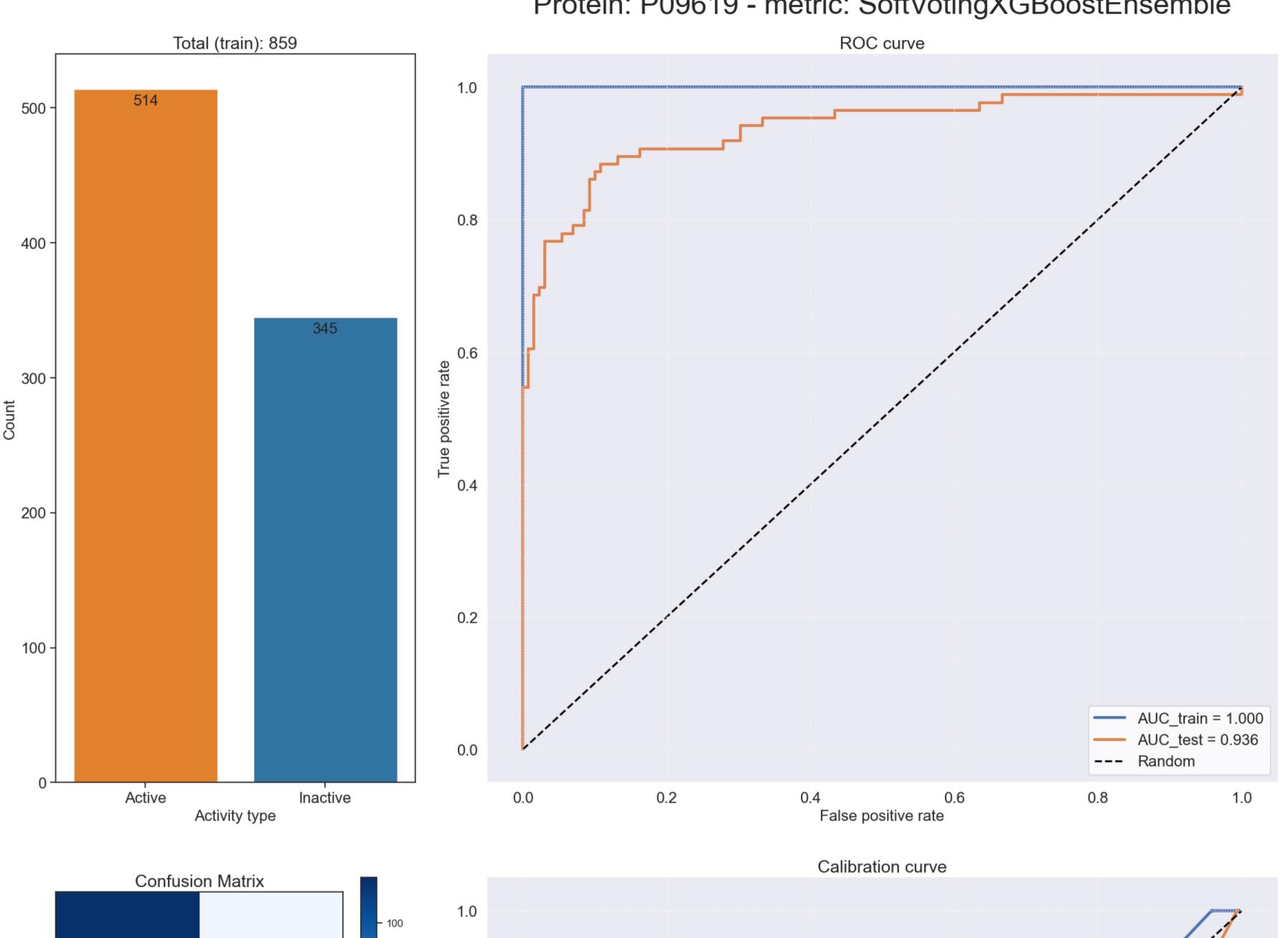


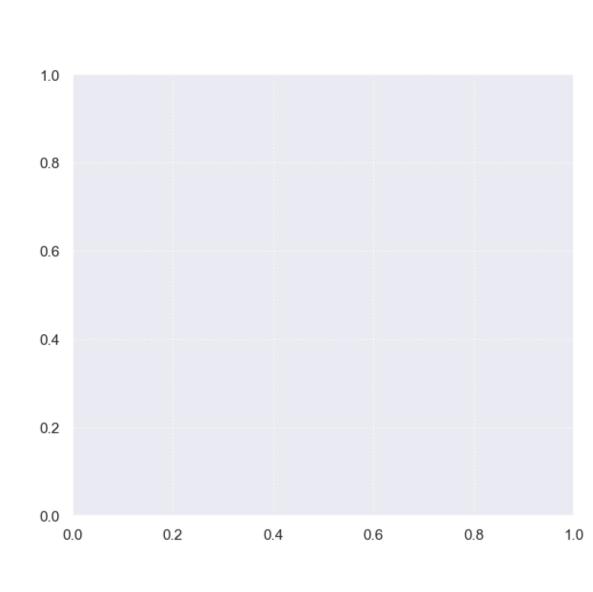
0.5	Inac				Active z	one ac	tive (86) active (129) ecoy (215)
00	7						
Percent - 05							
15							
5							
0 ——	0.0 0.2	0.	4 Proba	0.6 bility	0.	8	1.0

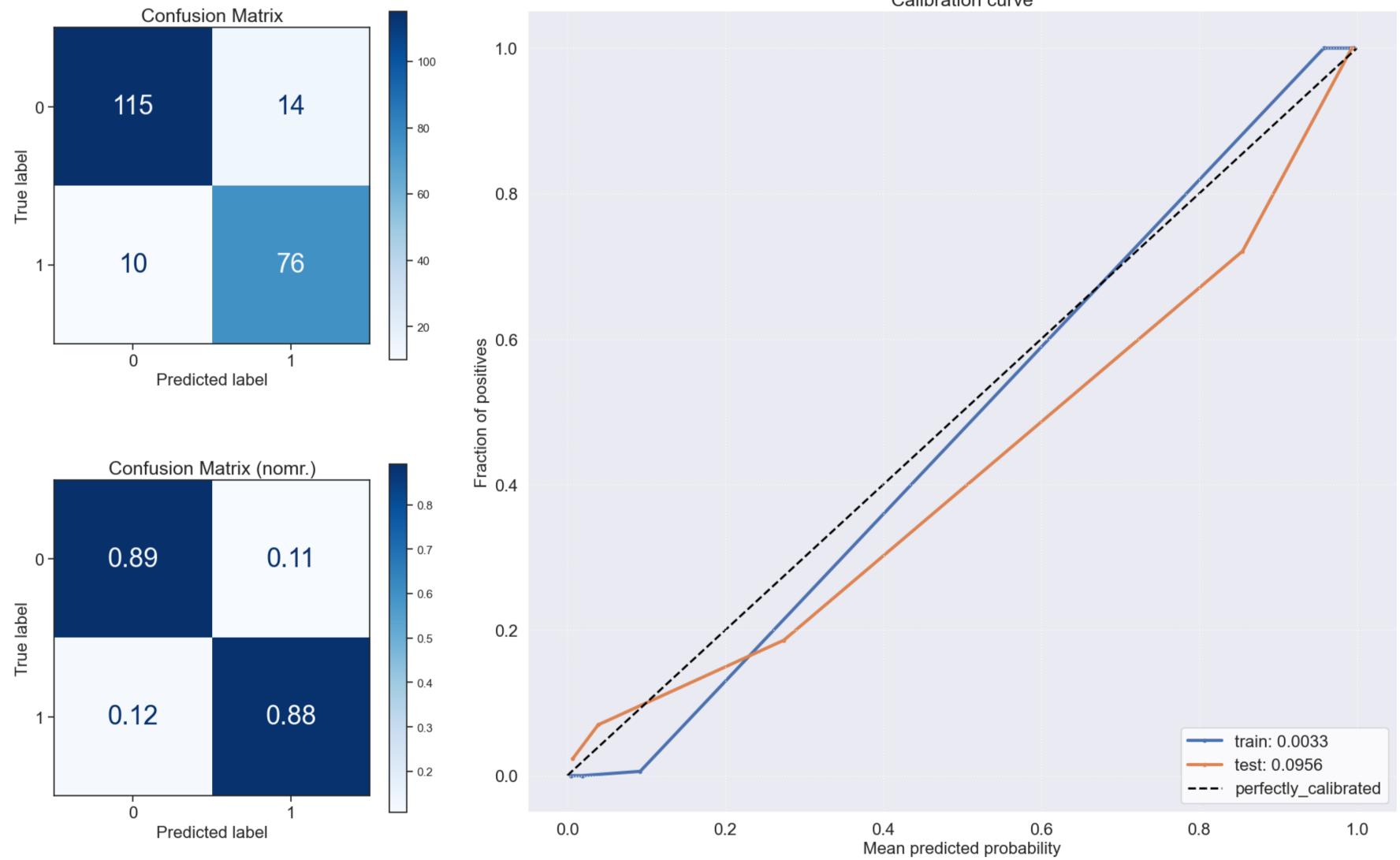
Active/Inactive probability

Metric	Train	Test
AUC	1.0	0.9385
accuracy	1.0	0.8837
balanced accuracy	1.0	0.8818
recall_(sens)	1.0	0.8721
specificity	1.0	0.8915
precision	1.0	0.8427
f1_score	1.0	0.884

Protein: P09619 - metric: SoftVotingXGBoostEnsemble







	Active/Inactive probability						
40	Ina	ctive zone			Active z	zone acti	pe ive (86) ctive (129) coy (215)
30							
Percent 00							
10							
0							
0	0.0 0	.2 0.		0.6	0.	8	1.0
	Probability						

Metric	Train	Test
AUC	1.0	0.9363
accuracy	1.0	0.8884
balanced accuracy	1.0	0.8876
recall_(sens)	1.0	0.8837
specificity	1.0	0.8915
precision	1.0	0.8444
f1_score	1.0	0.8888