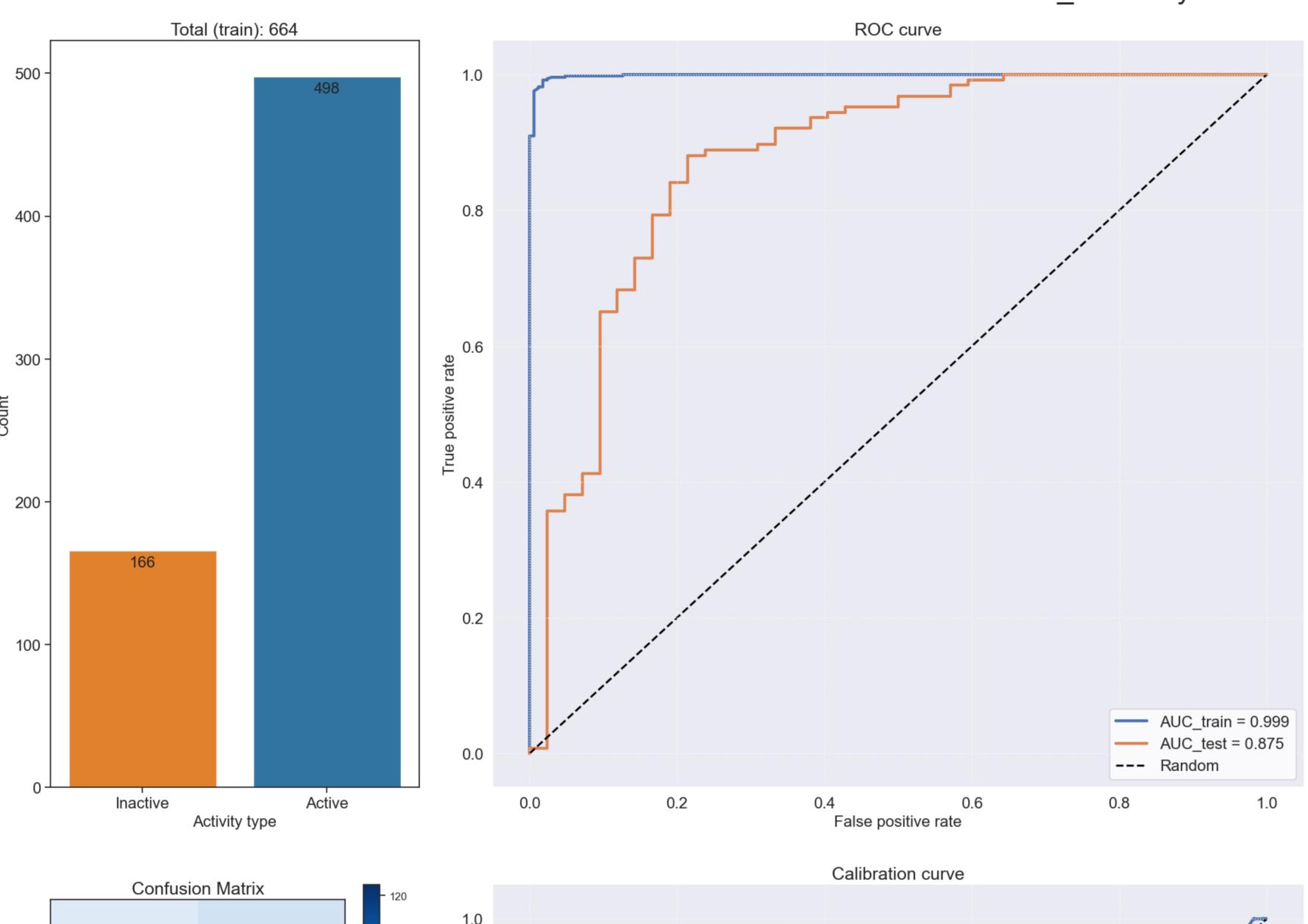
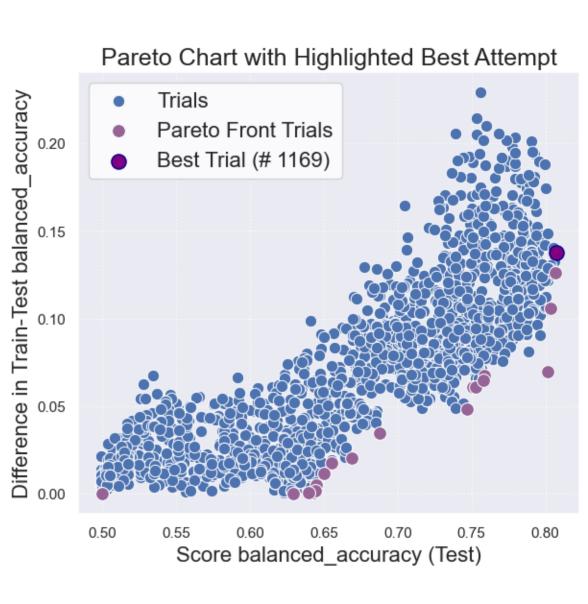
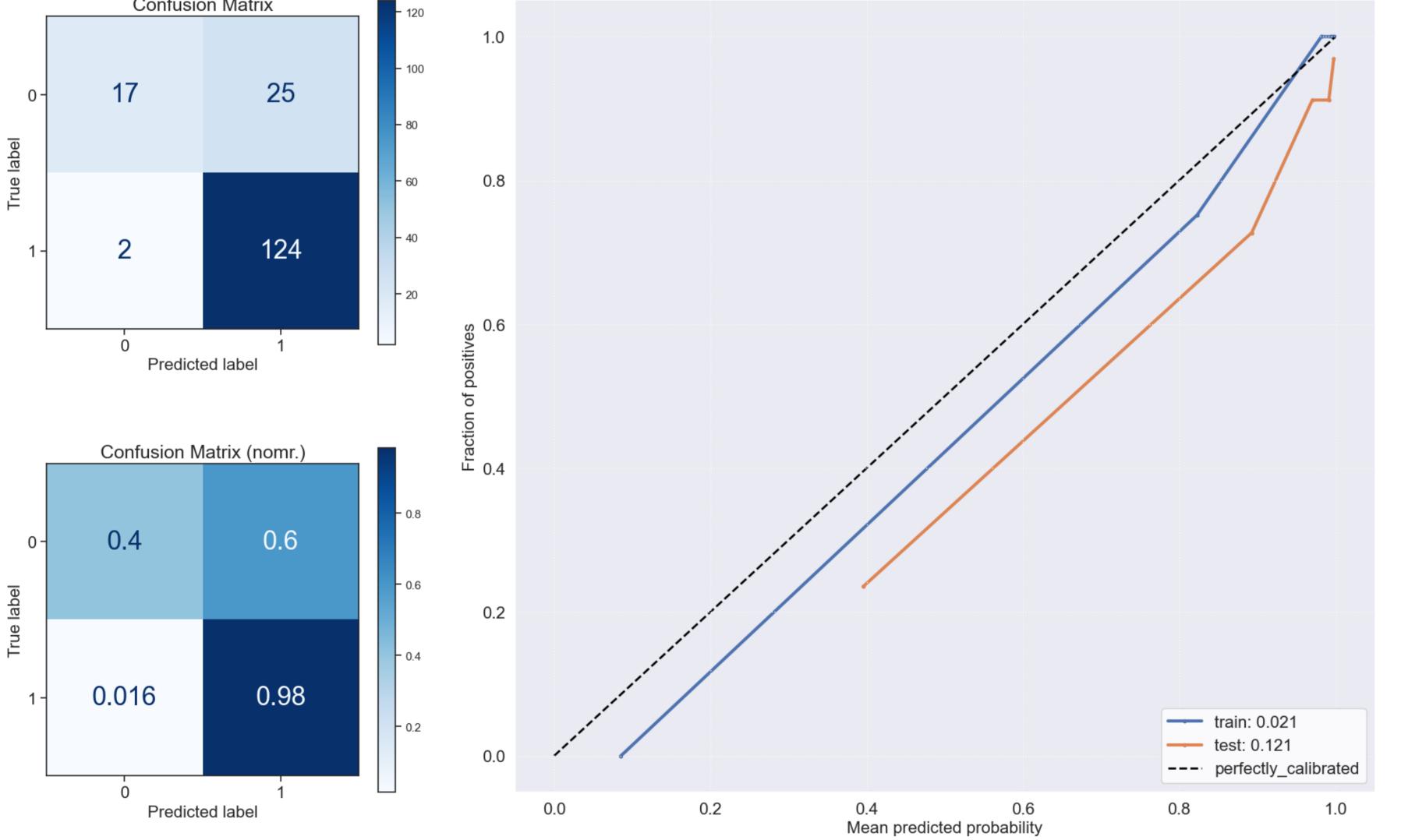
Protein: P35368 - metric: balanced_accuracy





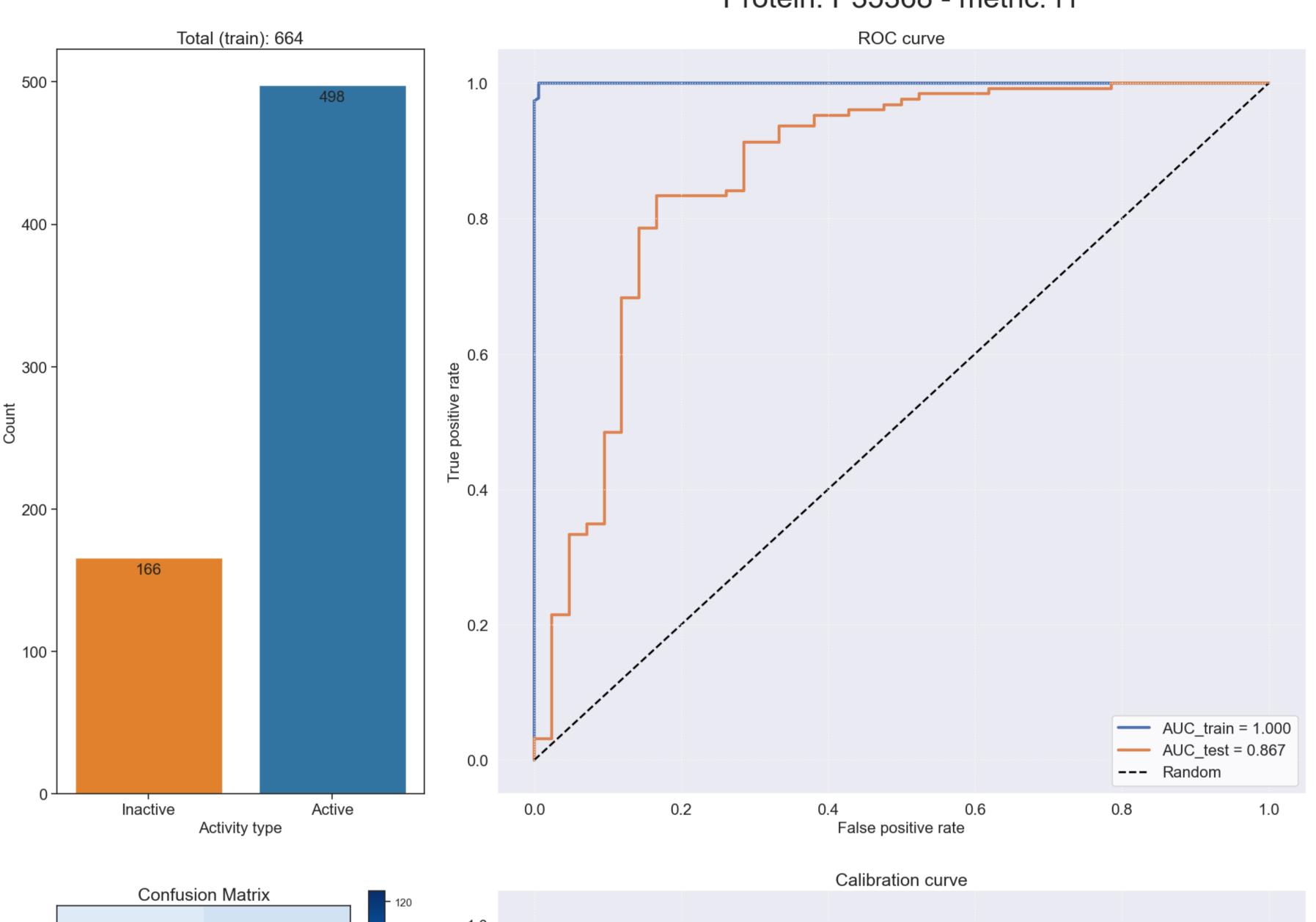
XGBoost Parameters	Value
AGBOOSt Parameters	value
alpha	4.993
colsample_bytree	0.7539
gamma	0.7071
lambda	2.064
learning_rate	0.0521
max_depth	8.0
min_child_weight	2.0
n_estimators	846.0
reg_alpha	0.0242
reg_lambda	0.1078
scale_pos_weight	2.4873
subsample	0.8912

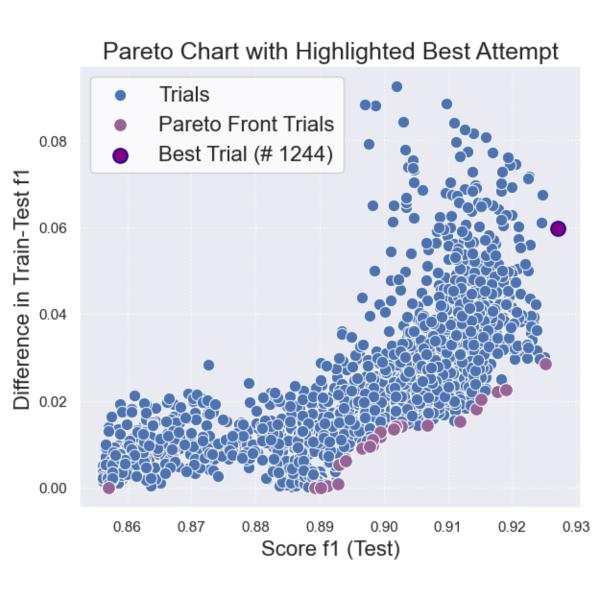


		A	ctive/Inactive	e probability		
40 		nactive zone			Active zone	type active (126) inactive (42) decoy (167)
30						
Percent 50						
15						
5						
0-	0.0	0.2	0.4 Proba	0.6 bility	0.8	1.0

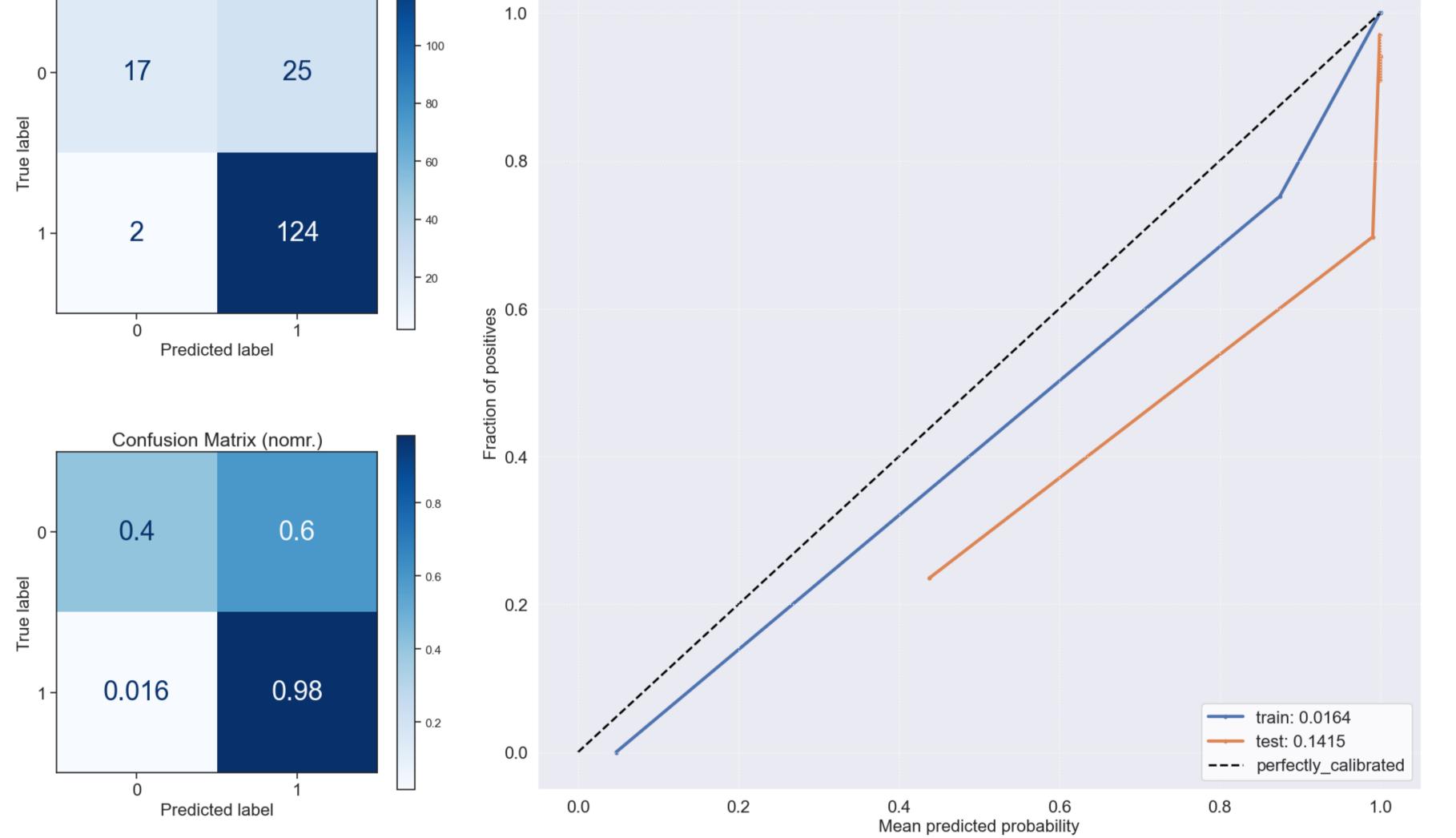
Metric	Train	Test
AUC	0.9989	0.8751
accuracy	0.9684	0.8393
balanced accuracy	0.9388	0.6944
recall_(sens)	0.998	0.9841
specificity	0.8795	0.4048
precision	0.9613	0.8322
f1_score	0.9677	0.8157

Protein: P35368 - metric: f1





XGBoost Parameters	Value
alpha	1.0734
colsample_bytree	0.5018
gamma	0.3041
lambda	3.4809
learning_rate	0.0748
max_depth	9.0
min_child_weight	1.0
n_estimators	493.0
reg_alpha	0.0458
reg_lambda	0.6089
scale_pos_weight	76.6413
subsample	0.5228

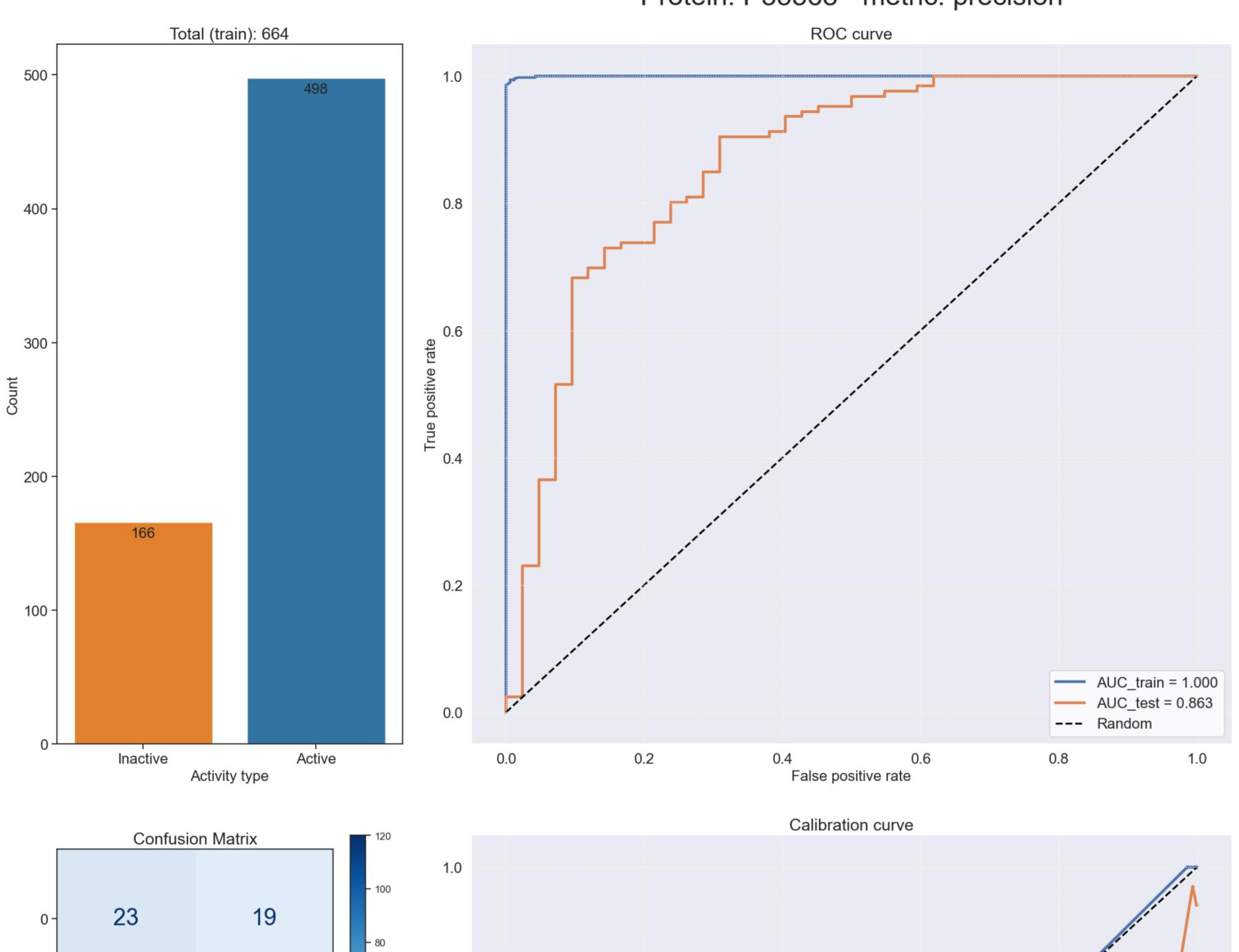


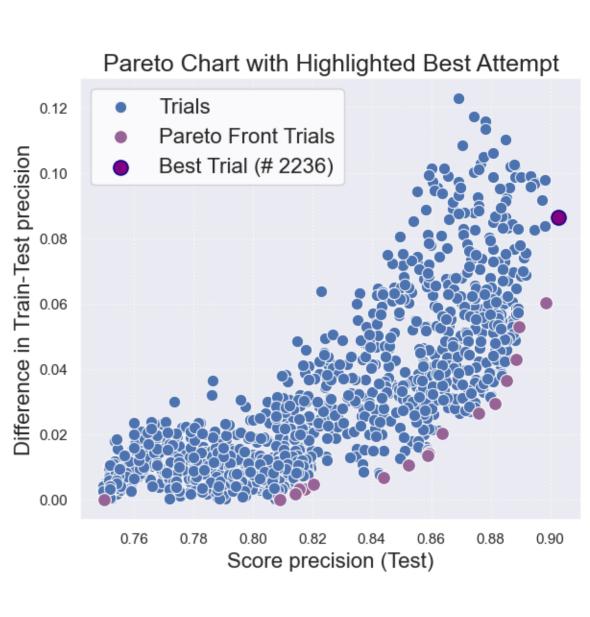
80	ln	active zone			Active zone	type active (126) inactive (42) decoy (167)
60						
Percent 6						
20						
0 —			400 100			
	0.0	0.2	0.4 Probability	0.6	0.8	1.0

Active/Inactive probability

Metric	Train	Test
AUC	0.9999	0.8668
accuracy	0.9804	0.8393
balanced accuracy	0.9608	0.6944
recall_(sens)	1.0	0.9841
specificity	0.9217	0.4048
precision	0.9746	0.8322
f1_score	0.9801	0.8157

Protein: P35368 - metric: precision





XGBoost Parameters	Value
alpha	1.307
colsample_bytree	0.9495
gamma	0.5528
lambda	2.2608
learning_rate	0.3126
max_depth	3.0
min_child_weight	1.0
n_estimators	652.0
reg_alpha	0.3944
reg_lambda	0.0982
scale_pos_weight	1.2743
subsample	0.6926

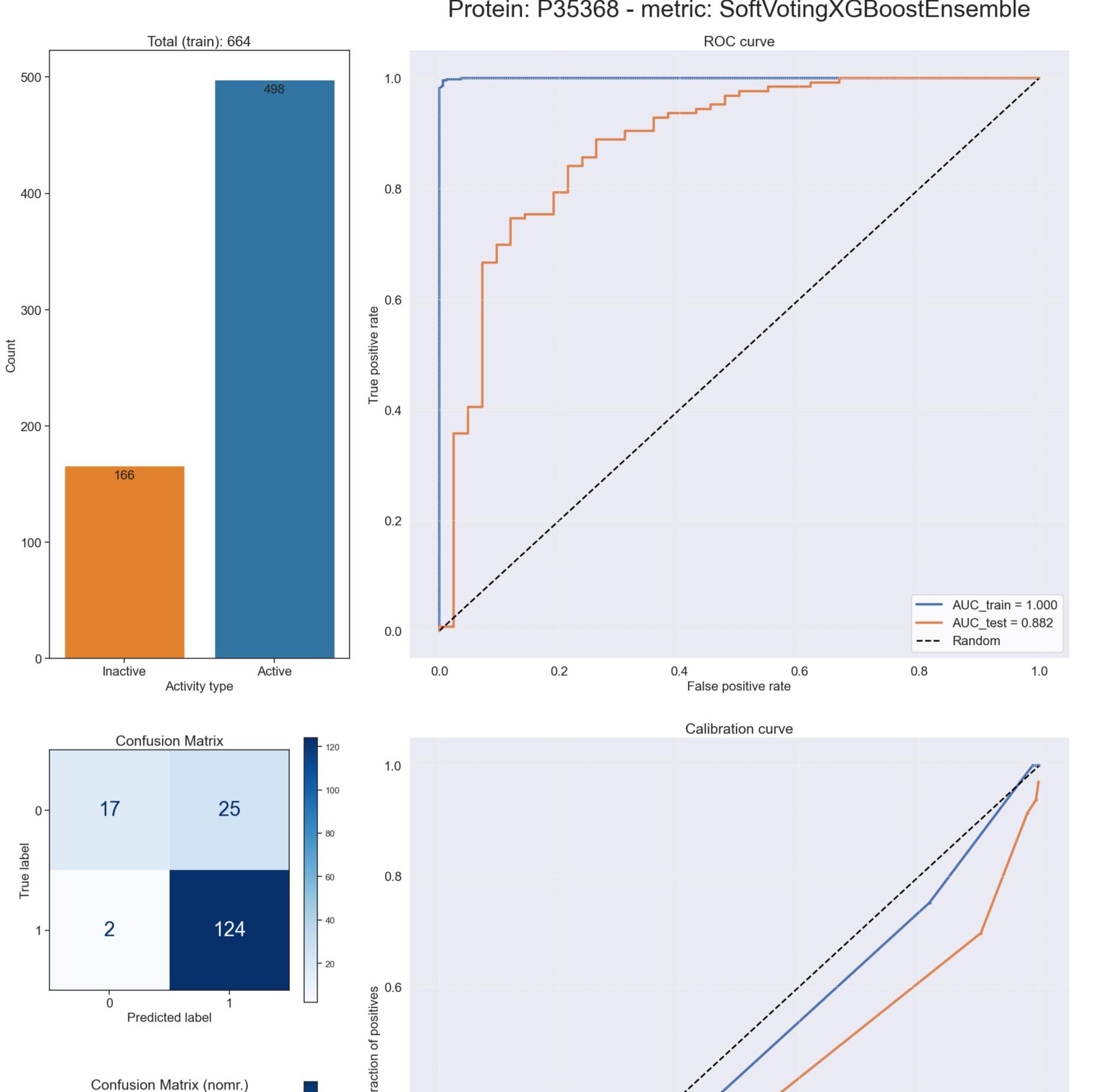
label O	23	19	- 100 - 80	1.0						
True label			- 60	0.8						
1 -	6	120	- 40							
	0 Predicte	1 ed label	- 20	Fraction of positives 0.0 9.0						
ı	Confusion M	latrix (nomr.)	1	Practic 4.0						
label O	0.55	0.45	- 0.8 - 0.6	0.2						
True label	0.048	0.95	- 0.4 - 0.2	0.0					test: 0	0.0103 .1178 :tly_calibrated
	0 Predicte	1 ed label			0.0	0.2	0.4 Mean predicte	0.6 ed probability	0.8	1.0

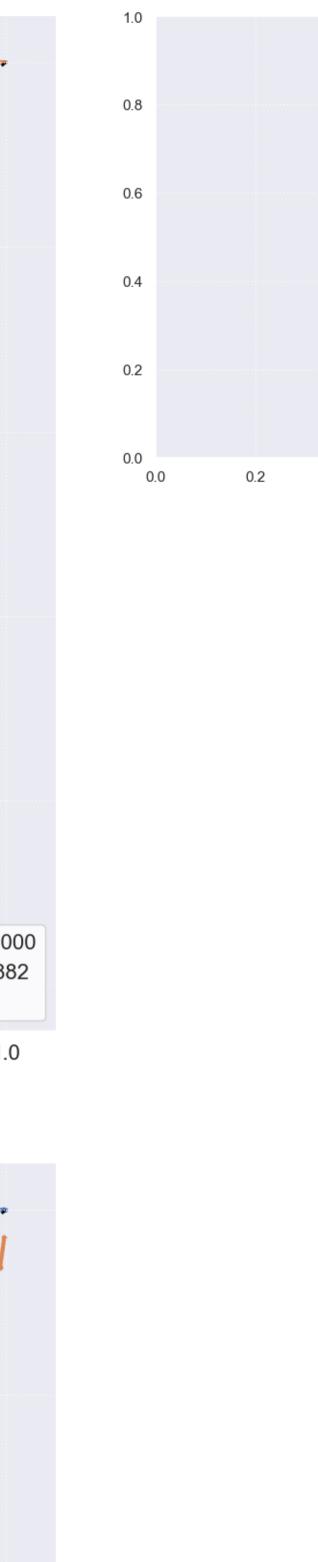
40		Inactive zone			Active z	inac	ve (126) ctive (42) oy (167)
30							
Percent							
20							
10							-
0 —	0.0	0.2	0.4 Proba	0.6 ability	6 0.	8	1.0

Active/Inactive probability

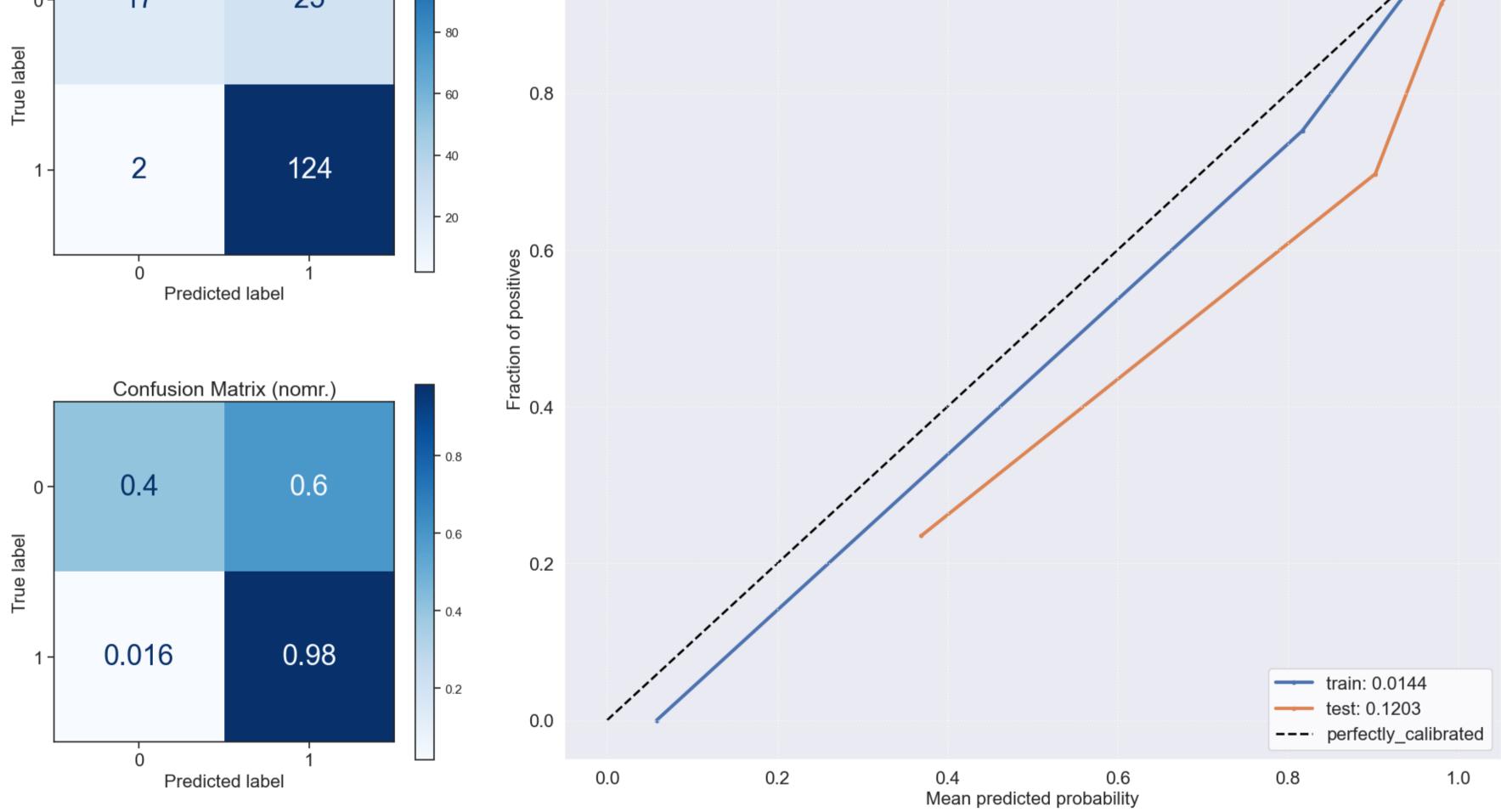
Metric	Train	Test
AUC	0.9998	0.8628
accuracy	0.991	0.8512
balanced accuracy	0.9839	0.75
recall_(sens)	0.998	0.9524
specificity	0.9699	0.5476
precision	0.99	0.8633
f1_score	0.9909	0.8412

Protein: P35368 - metric: SoftVotingXGBoostEnsemble





0.6



	Active/Inactive probability						
50		Inactive zon	9		Active zone	type active (126) inactive (42)	
40						decoy (167)	
sent 30							
Perc							
10							
0-							
0-	0.0	0.2	0.4 Pro	0.6 bability	0.8	1.0	

Metric	Train	Test
AUC	0.9998	0.8815
accuracy	0.9849	0.8393
balanced accuracy	0.9699	0.6944
recall_(sens)	1.0	0.9841
specificity	0.9398	0.4048
precision	0.9803	0.8322
f1_score	0.9848	0.8157