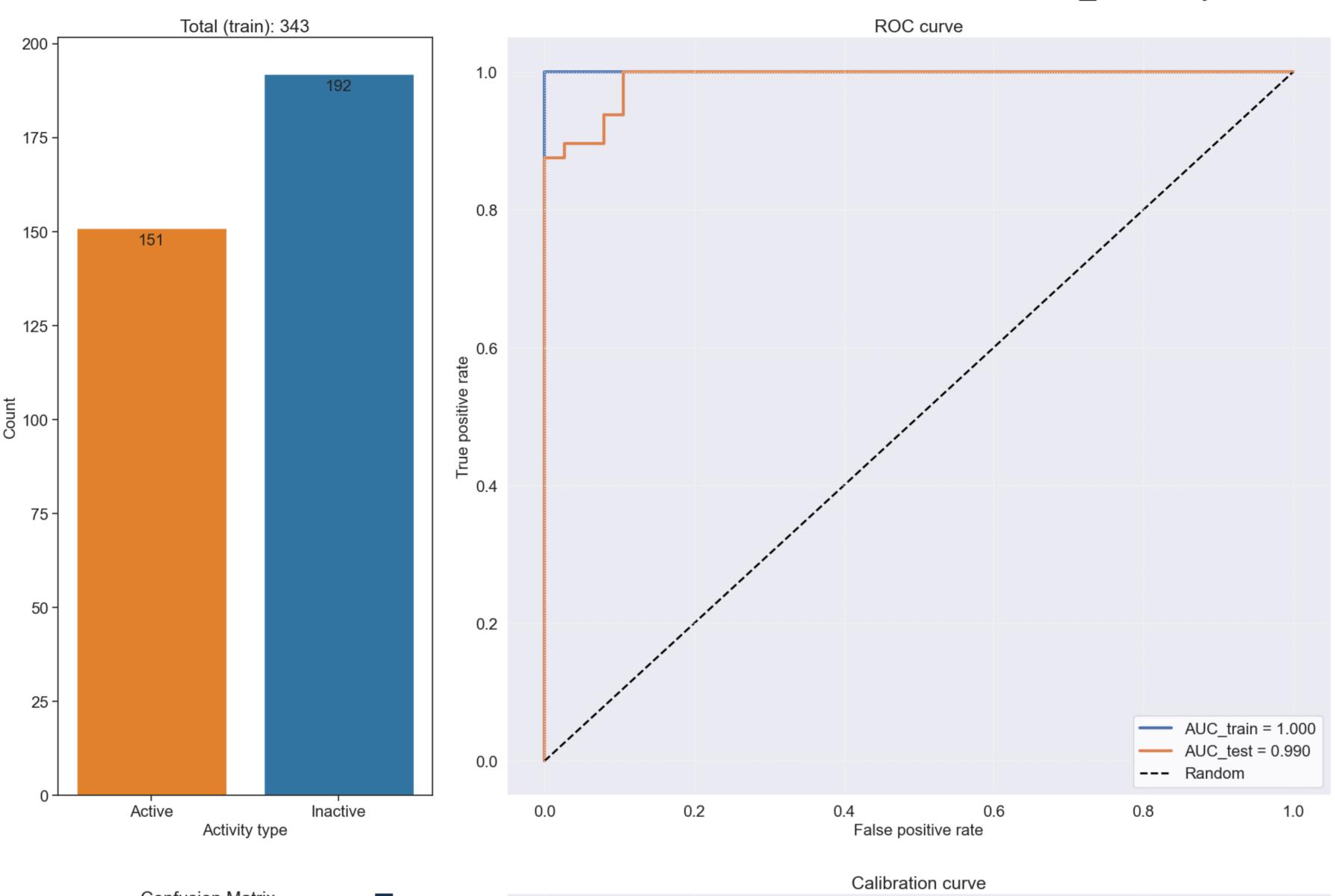
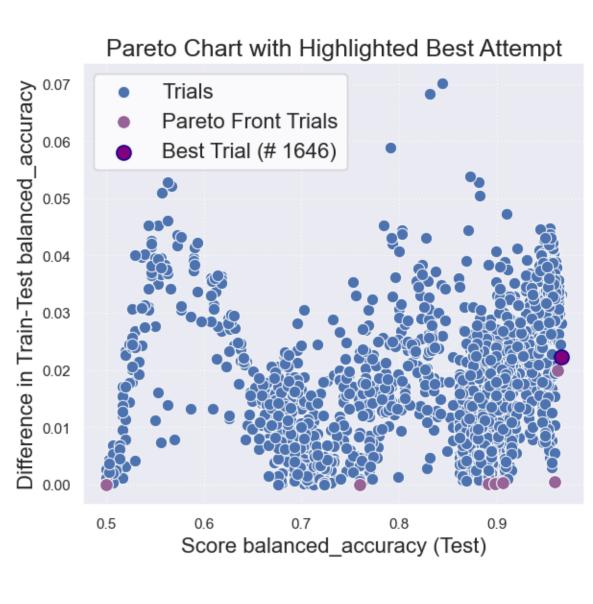
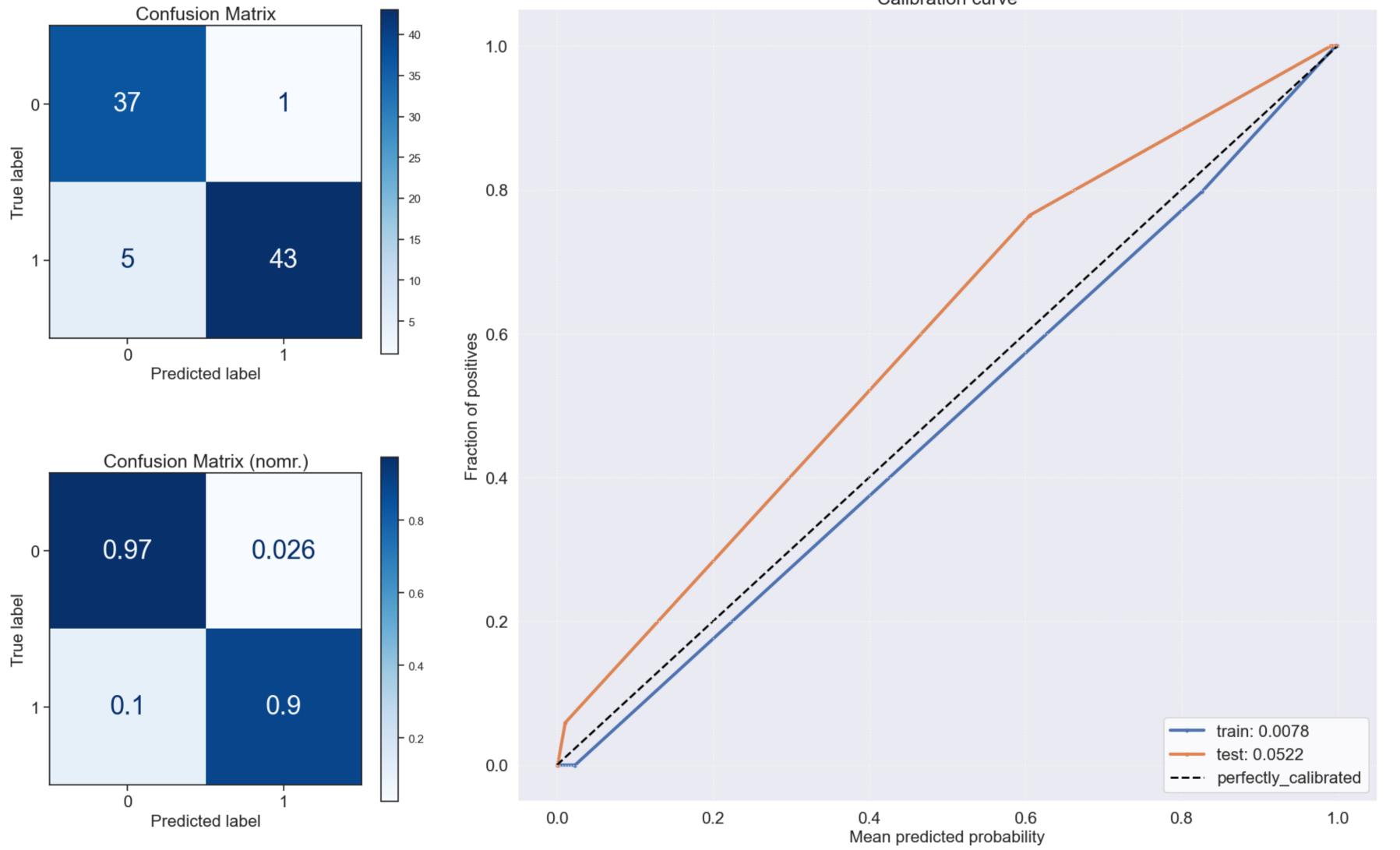
Protein: P11473 - metric: balanced_accuracy





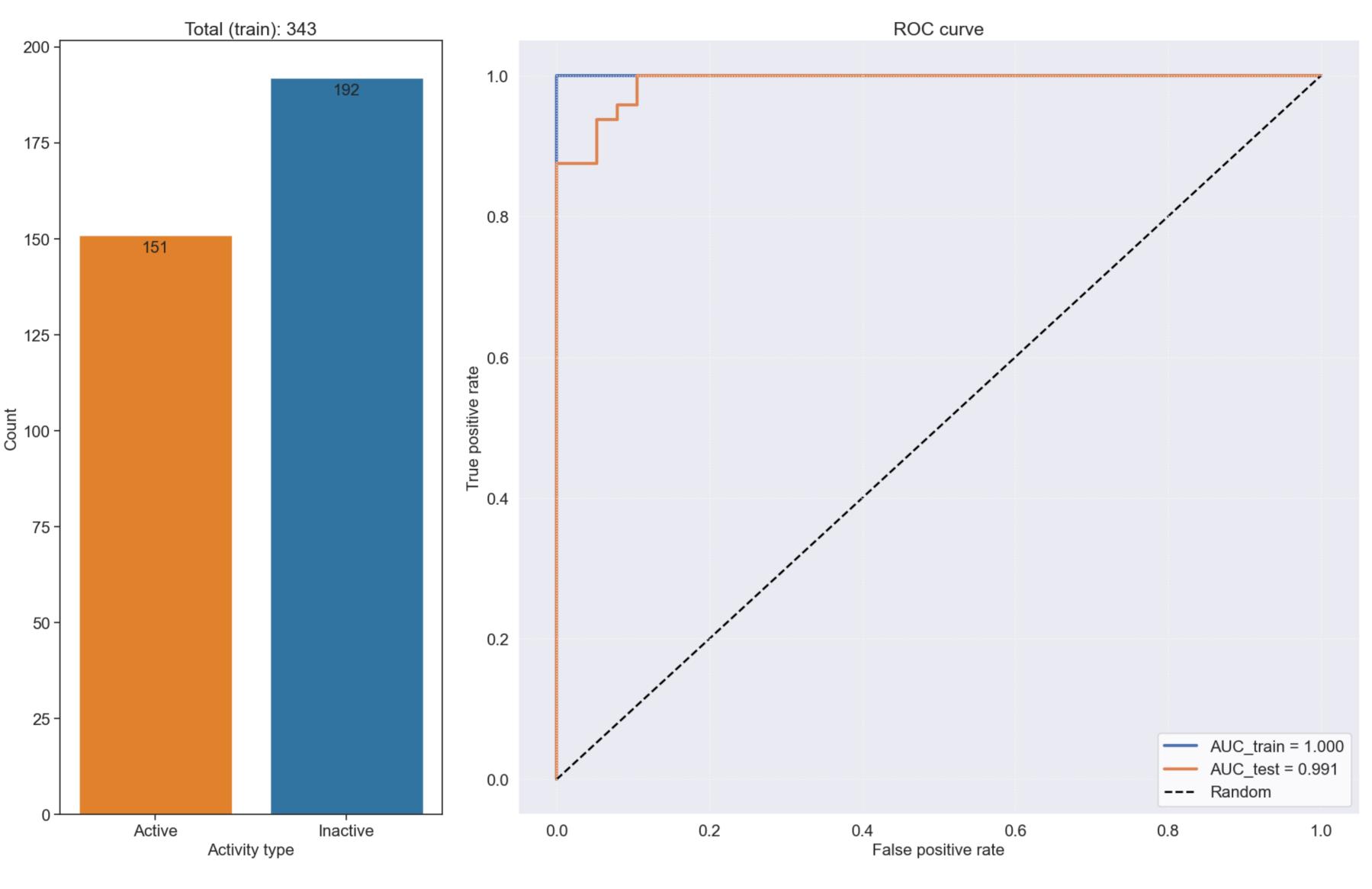
XGBoost Parameters	Value
alpha	1.5013
colsample_bytree	0.9146
gamma	0.4117
lambda	4.6871
learning_rate	0.3161
max_depth	10.0
min_child_weight	1.0
n_estimators	120.0
reg_alpha	0.2269
reg_lambda	0.8691
scale_pos_weight	1.6242
subsample	0.5342

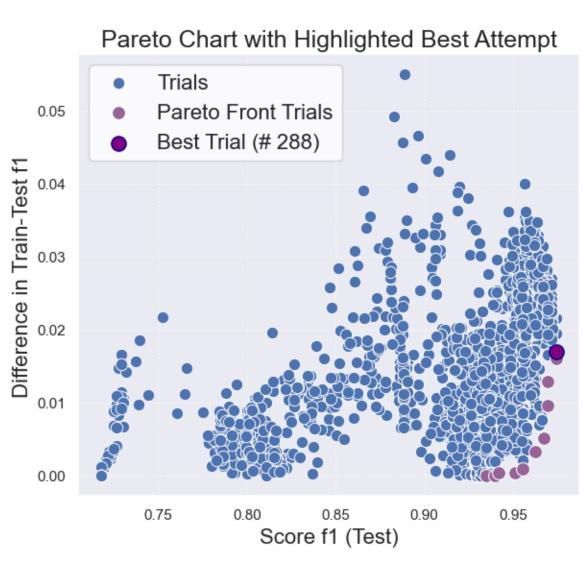


			Active/Ina	ctive probability		
80 70		Inactive zo			Active zone	active (48)
60						
Percent 04						
30						
10						
0 —	0.0	0.2	0.4 Pi	0.6 robability	0.8	1.0

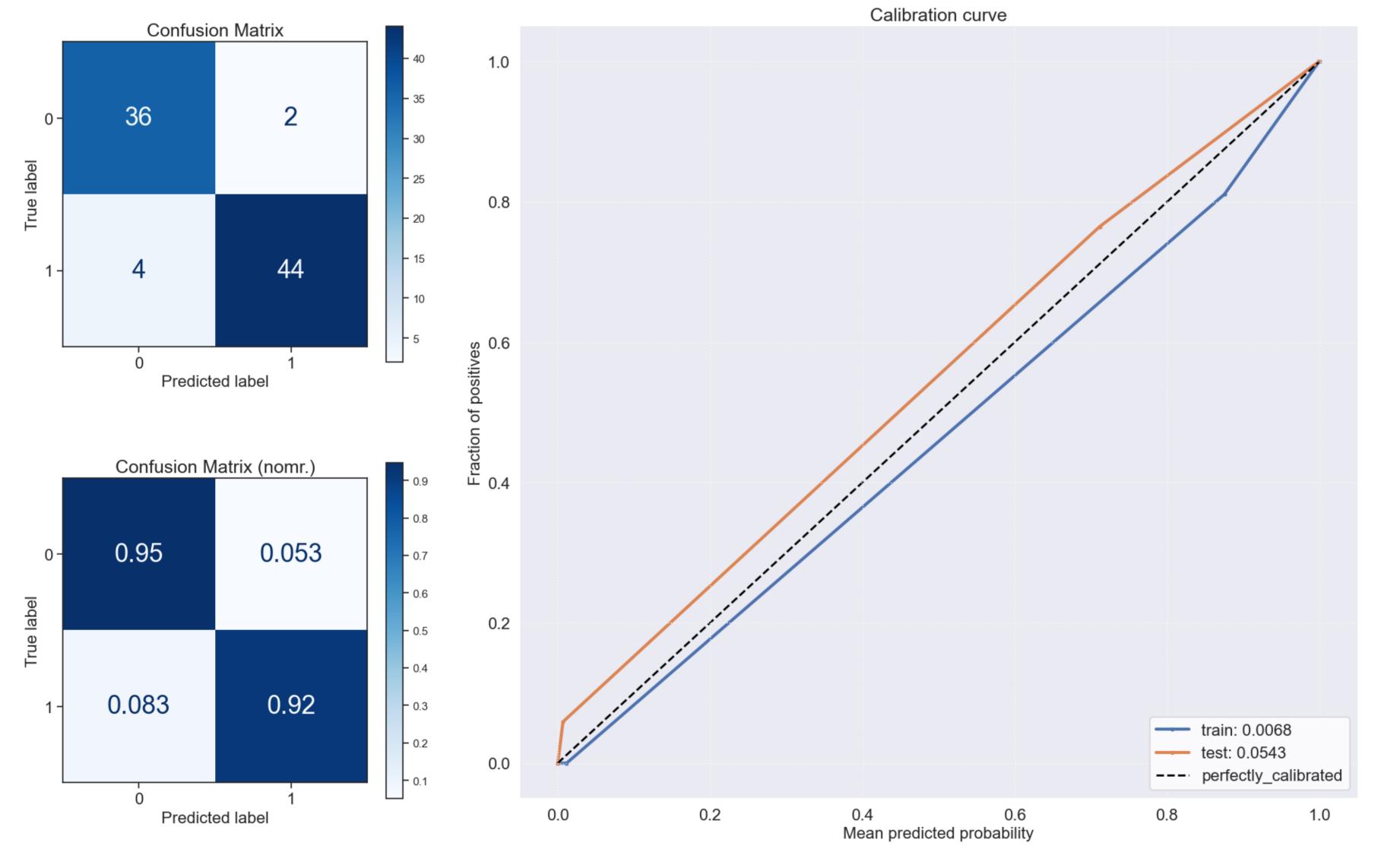
Metric	Train	Test
AUC	1.0	0.9896
accuracy	0.9971	0.9302
balanced accuracy	0.9967	0.9348
recall_(sens)	1.0	0.8958
specificity	0.9934	0.9737
precision	0.9948	0.9773
f1_score	0.9971	0.9305

Protein: P11473 - metric: f1





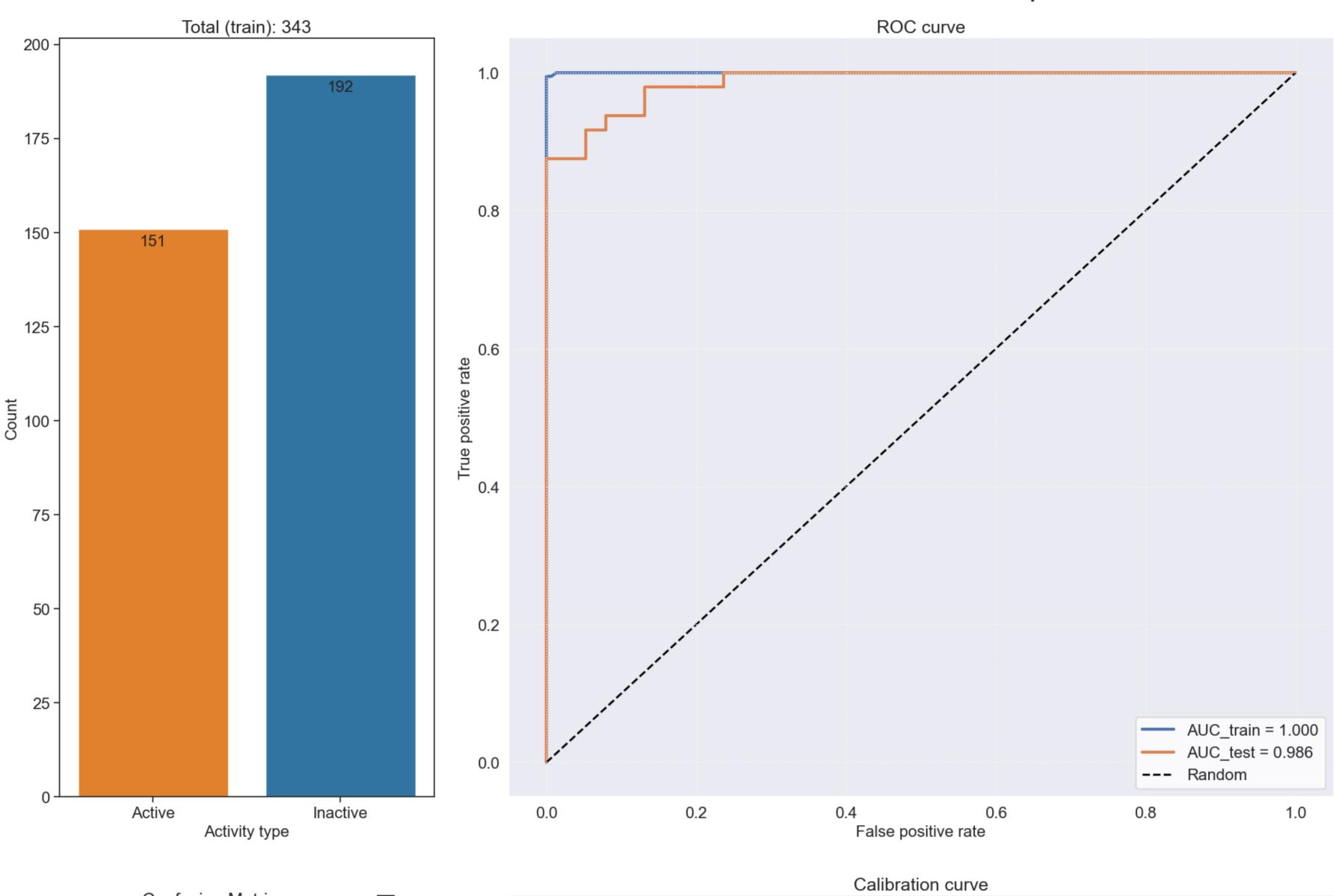
XGBoost Parameters	Value
alpha	3.7164
colsample_bytree	0.5453
gamma	0.5467
lambda	1.9391
learning_rate	0.2316
max_depth	5.0
min_child_weight	1.0
n_estimators	211.0
reg_alpha	0.2948
reg_lambda	0.2172
scale_pos_weight	21.1709
subsample	0.6911

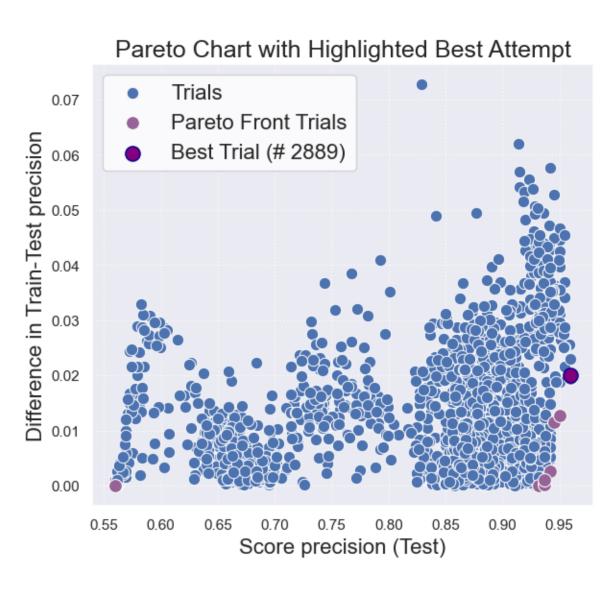


	Active/Inactive probability					
80					Active zone	type active (48) inactive (38) decoy (86)
60						
Percent 04 						
30						
20 						
0 —	0.0	0.2	0.4 Proba	0.6 ability	0.8	1.0

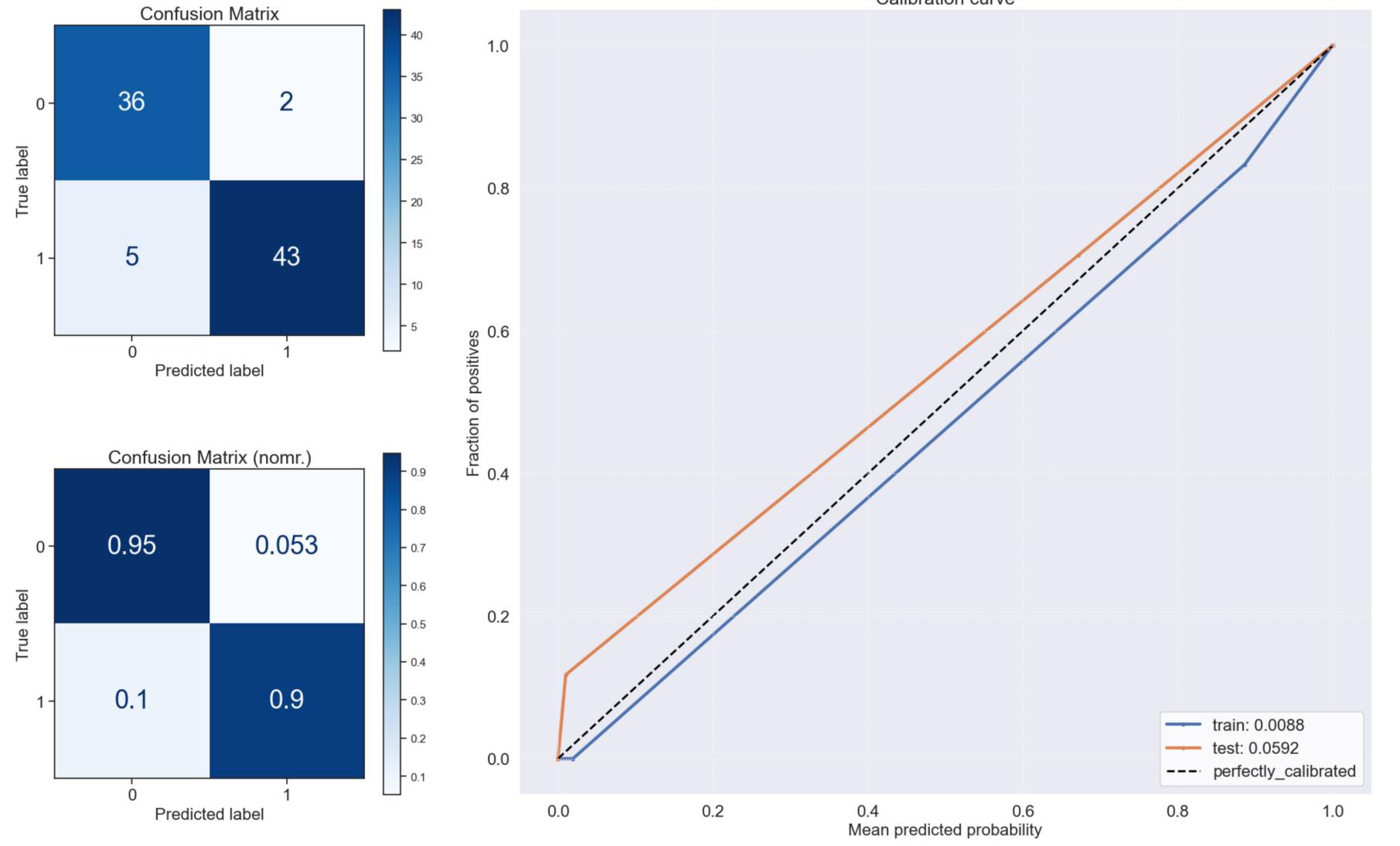
Metric	Train	Test
AUC	1.0	0.9907
accuracy	0.9942	0.9302
balanced accuracy	0.9934	0.932
recall_(sens)	1.0	0.9167
specificity	0.9868	0.9474
precision	0.9897	0.9565
f1_score	0.9942	0.9304

Protein: P11473 - metric: precision



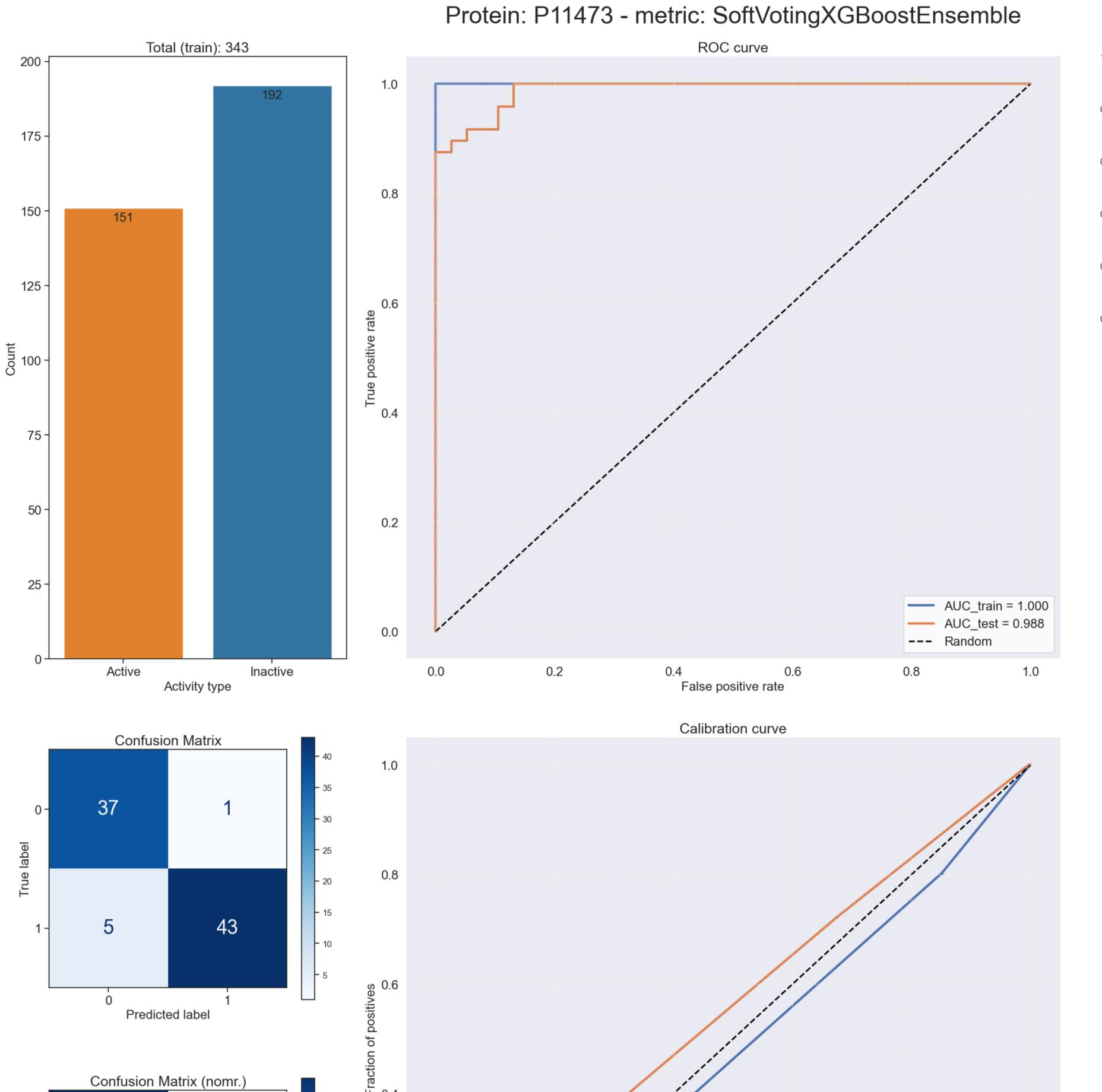


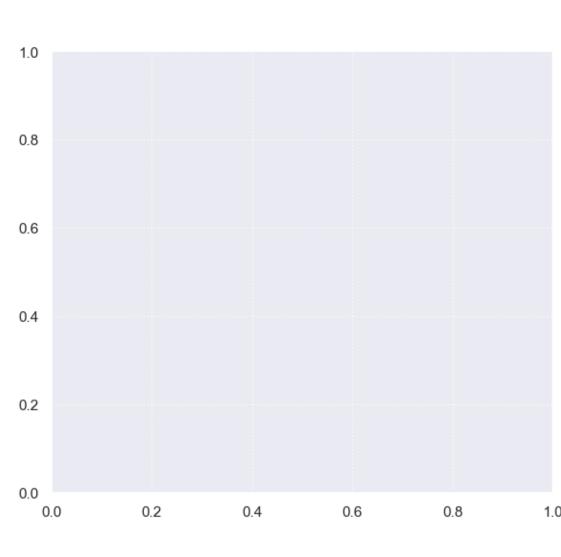
XGBoost Parameters	Value
alpha	3.7396
colsample_bytree	0.7535
gamma	0.4112
lambda	2.3428
learning_rate	0.9636
max_depth	8.0
min_child_weight	2.0
n_estimators	331.0
reg_alpha	0.6789
reg_lambda	0.2579
scale_pos_weight	4.5466
subsample	0.634

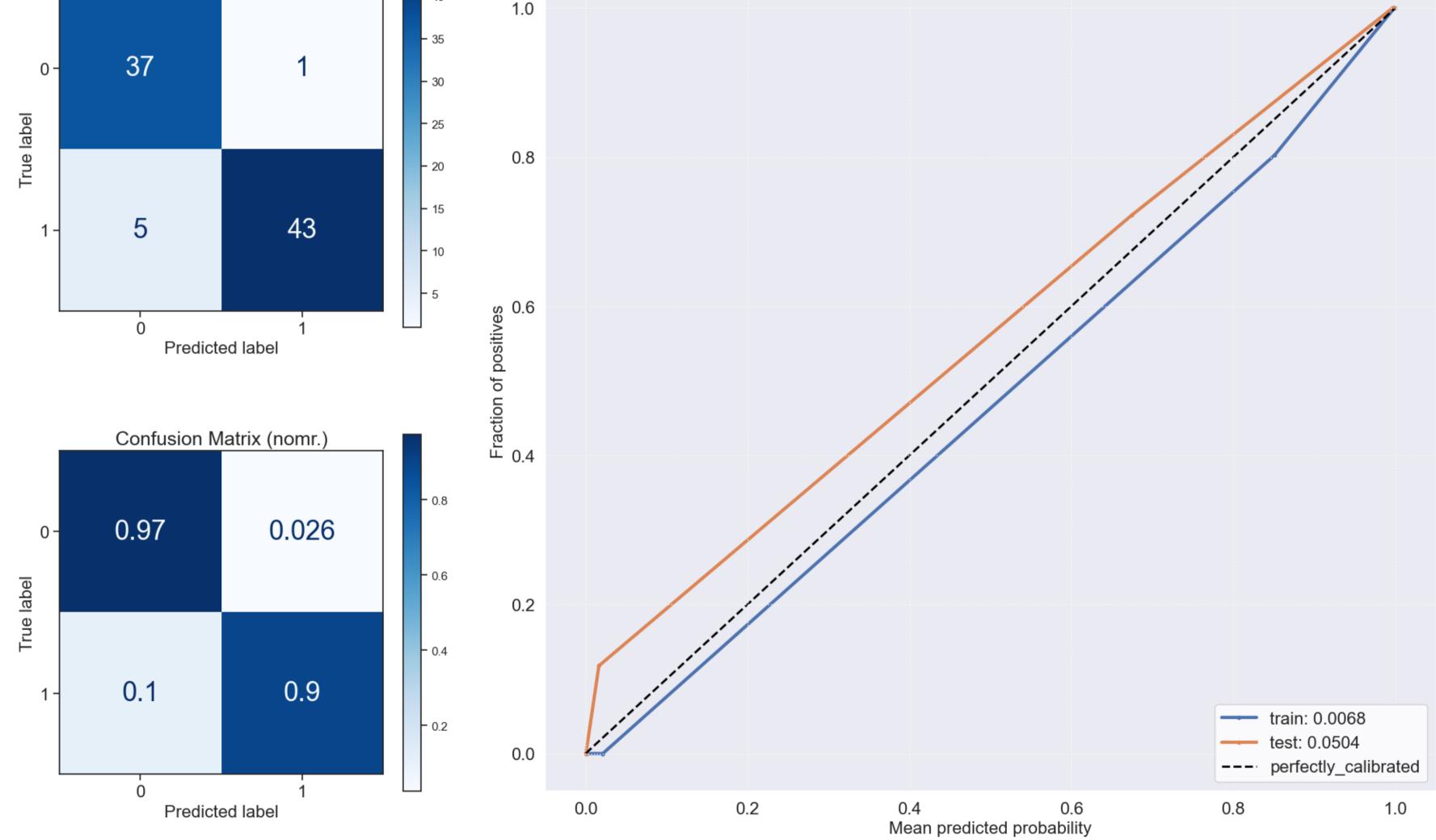


80 - Inac	tive zone	Active zone type active (48) inactive (38)
70 -		decoy (86)
00		
Si con		
40		
0.0 0.2	0.4 Probability	0.6 0.8 1.0

Metric	Train	Test
AUC	0.9999	0.9857
accuracy	0.9883	0.9186
balanced accuracy	0.9868	0.9216
recall_(sens)	1.0	0.8958
specificity	0.9735	0.9474
precision	0.9796	0.9556
f1_score	0.9883	0.9188







		Active/Inactive	orobability		
70	Inactive	!		Active zone	type active (48) inactive (38)
60					decoy (86)
ent 50					
Percent					
20					
10		1		П	
O	0.0 0.2	0.4 Probabil	0.6 ity	0.8	1.0

Metric	Train	Test
AUC	1.0	0.9885
accuracy	0.9883	0.9302
balanced accuracy	0.9868	0.9348
recall_(sens)	1.0	0.8958
specificity	0.9735	0.9737
precision	0.9796	0.9773
f1_score	0.9883	0.9305