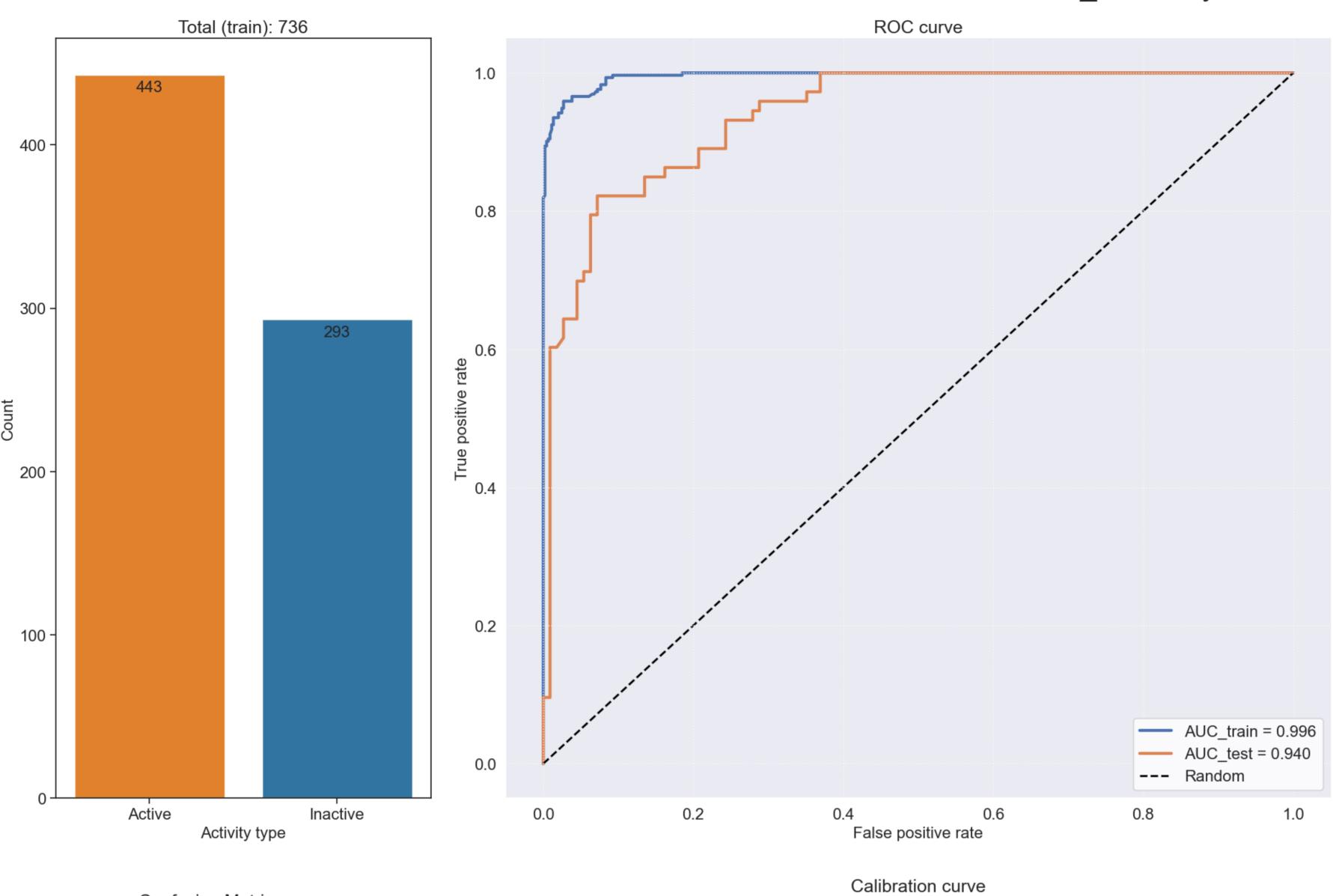
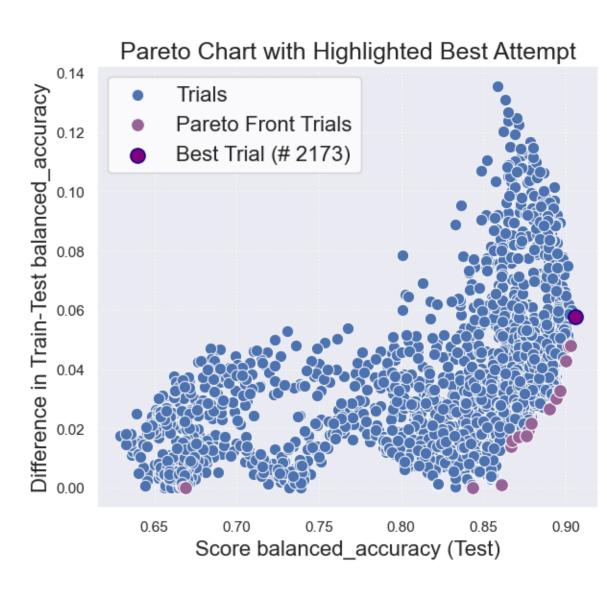
Protein: P25100 - metric: balanced_accuracy





XGBoost Parameters	Value
alpha	3.6326
colsample_bytree	0.7895
gamma	0.9776
lambda	3.9318
learning_rate	0.0317
max_depth	7.0
min_child_weight	1.0
n_estimators	474.0
reg_alpha	0.4099
reg_lambda	0.0001
scale_pos_weight	1.4569
subsample	0.9314

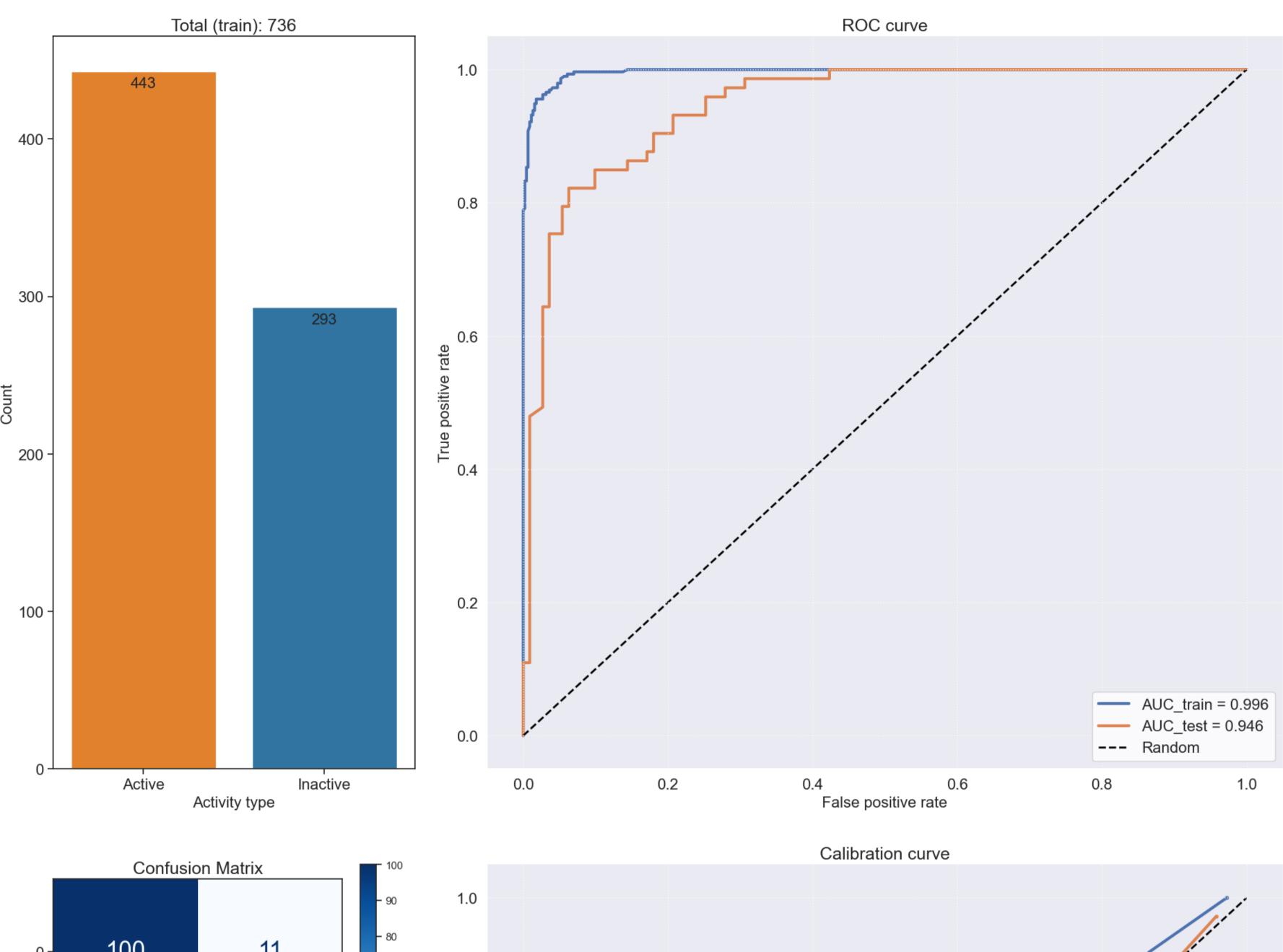
	Oomadic	JII WATIK	100							
True label	101	10	- 80 - 60	1.0						A Committee of the second
True 1-	13 O Predicte	60 1 ed label	- 40 - 20	of positives .0 .0						
label	Confusion M	latrix (nomr.) 0.09	- 0.9 - 0.8 - 0.7 - 0.6	Fraction of			Andread of the second s			
True label		0.82	- 0.5 - 0.4 - 0.3 - 0.2	0.0	A CONTRACTOR OF THE PARTY OF TH				test: 0	0.0316 0.0969 ctly_calibrated
	0 Predicte	1 ed label	L 0.1		0.0	0.2	0.4 Mean predicte	0.6 d probability	0.8	1.0

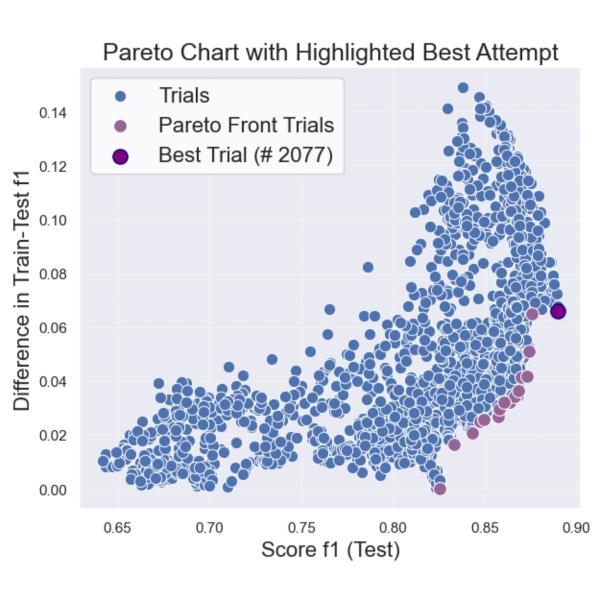
		Ac	tive/Inactiv	e probabilit	у		
35	Ina	ctive zone			Active 2	zone	type active (73) inactive (111) decoy (183)
25							
Percent 15							
10						П	
5							
0	0.0 0.	.2 0	.4 Proba	0.6 ability	0.	.8	1.0

Confusion Matrix

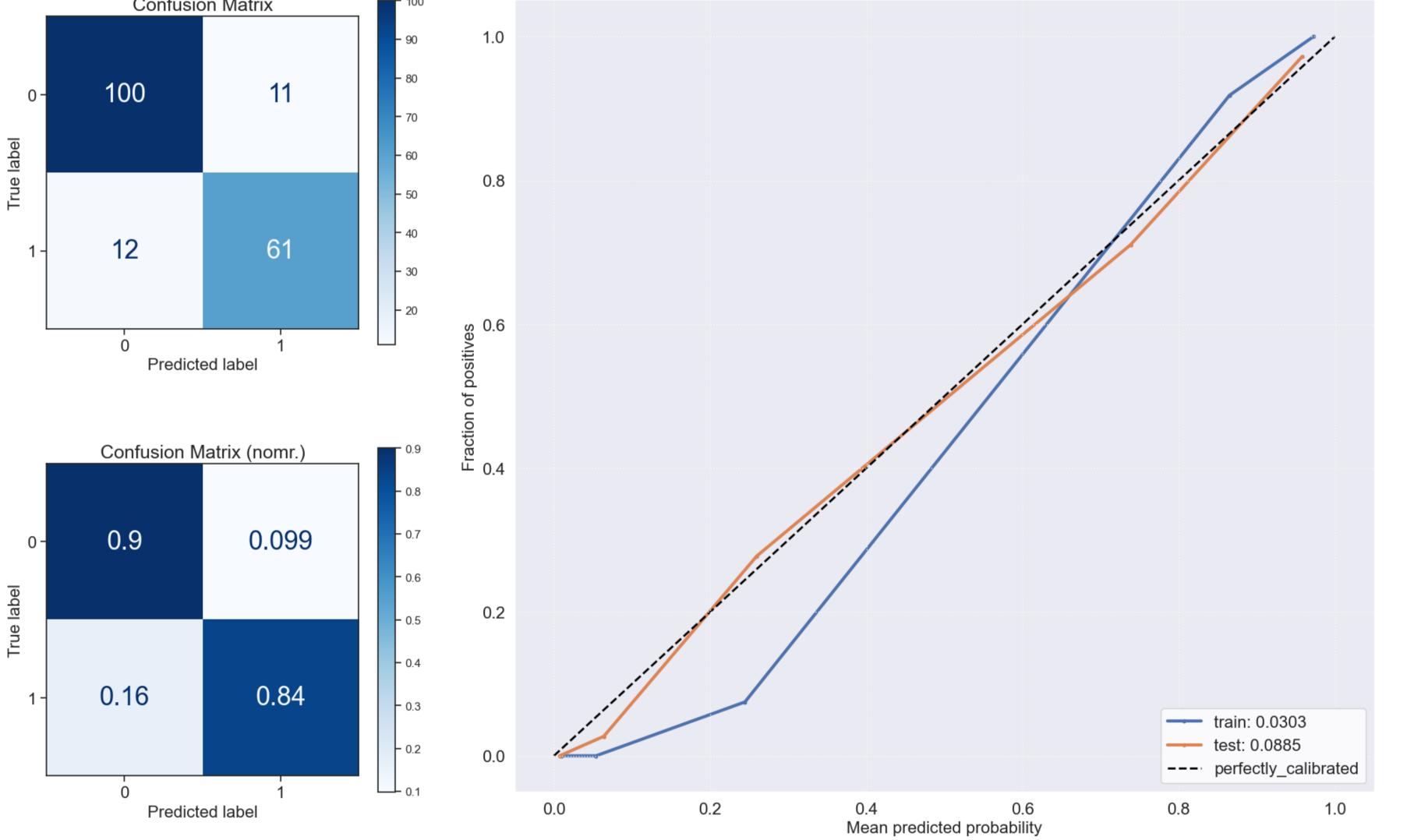
Metric	Train	Test
AUC	0.9956	0.9397
accuracy	0.9606	0.875
balanced accuracy	0.9603	0.8659
recall_(sens)	0.959	0.8219
specificity	0.9616	0.9099
precision	0.943	0.8571
f1_score	0.9607	0.8745

Protein: P25100 - metric: f1





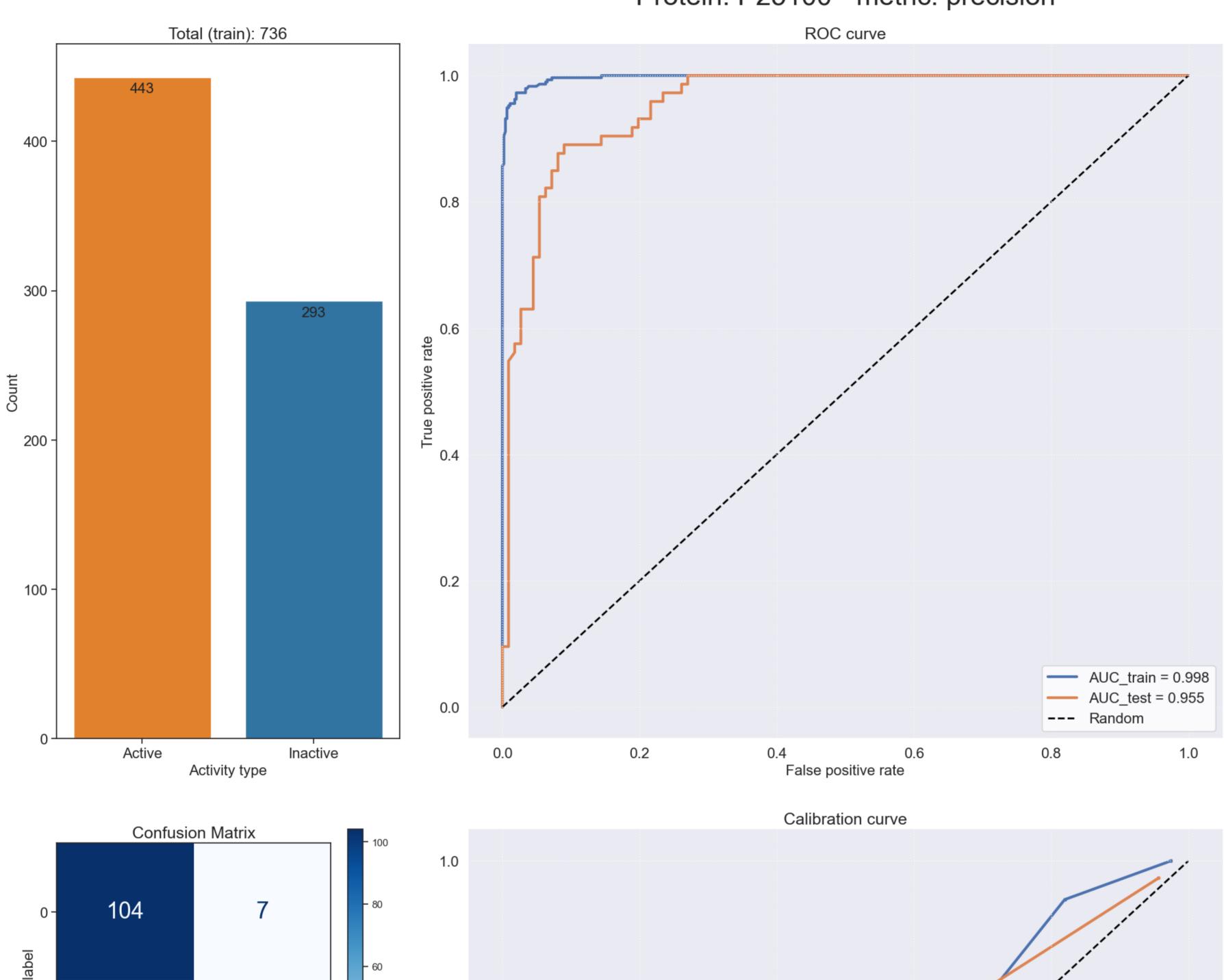
XGBoost Parameters	Value
alpha	3.0111
colsample_bytree	0.6001
gamma	0.5059
lambda	4.8668
learning_rate	0.0931
max_depth	9.0
min_child_weight	1.0
n_estimators	169.0
reg_alpha	0.6445
reg_lambda	0.9401
scale_pos_weight	1.8423
subsample	0.9915

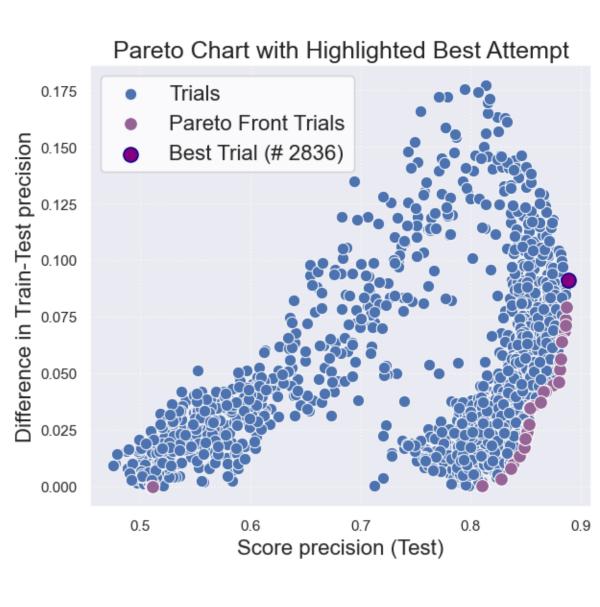


25	:	Active/Inactive prol		:
35	Inactive zone		Active	type active (73) inactive (111)
25				decoy (183)
Dercent				
He 15				П
10				
5				
O	0.0 0.2	0.4 Probability	0.6	0.8 1.0

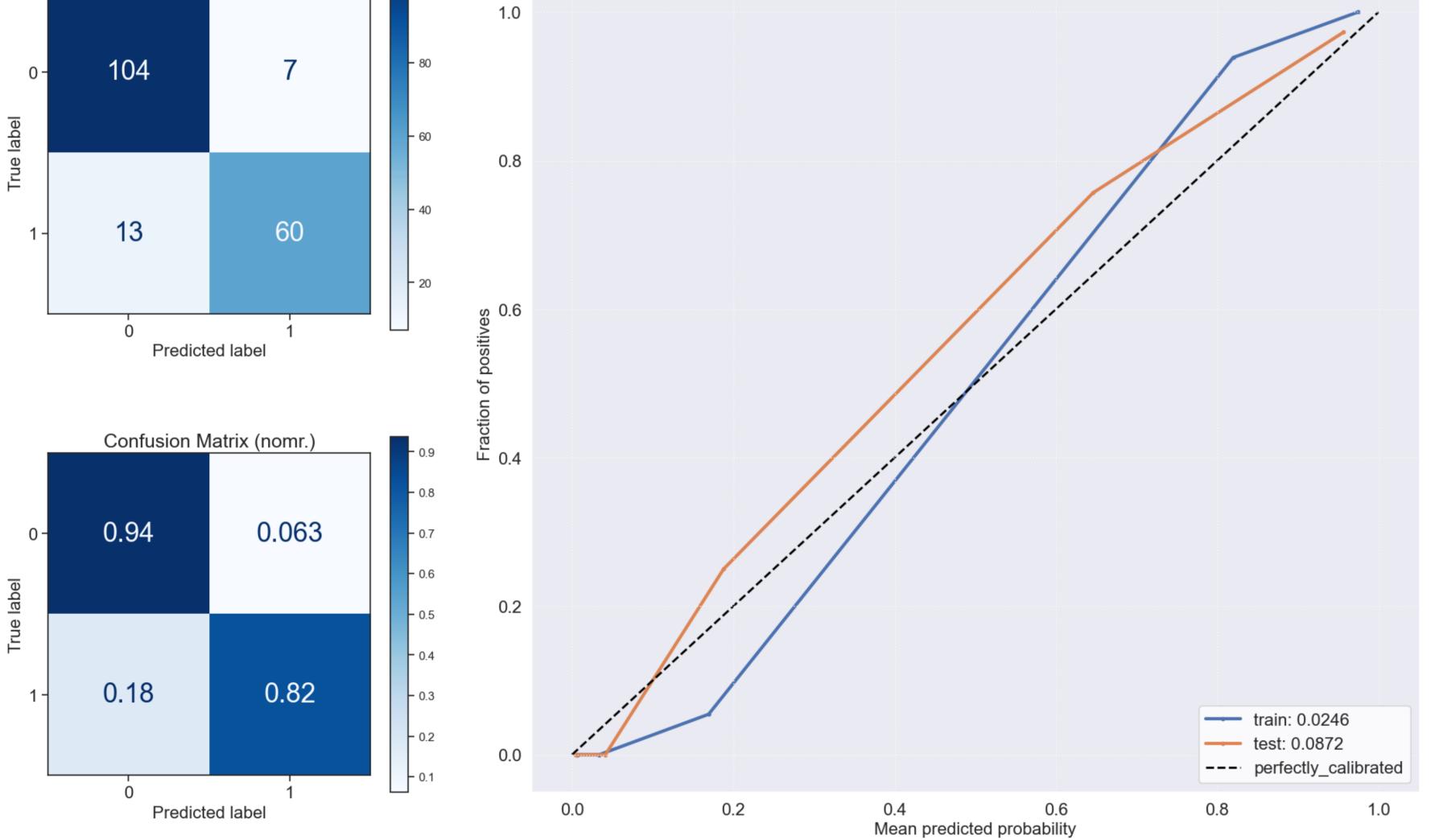
Metric	Train	Test
AUC	0.9965	0.9461
accuracy	0.9647	0.875
balanced accuracy	0.966	0.8683
recall_(sens)	0.9727	0.8356
specificity	0.9594	0.9009
precision	0.9406	0.8472
f1_score	0.9648	0.8748

Protein: P25100 - metric: precision





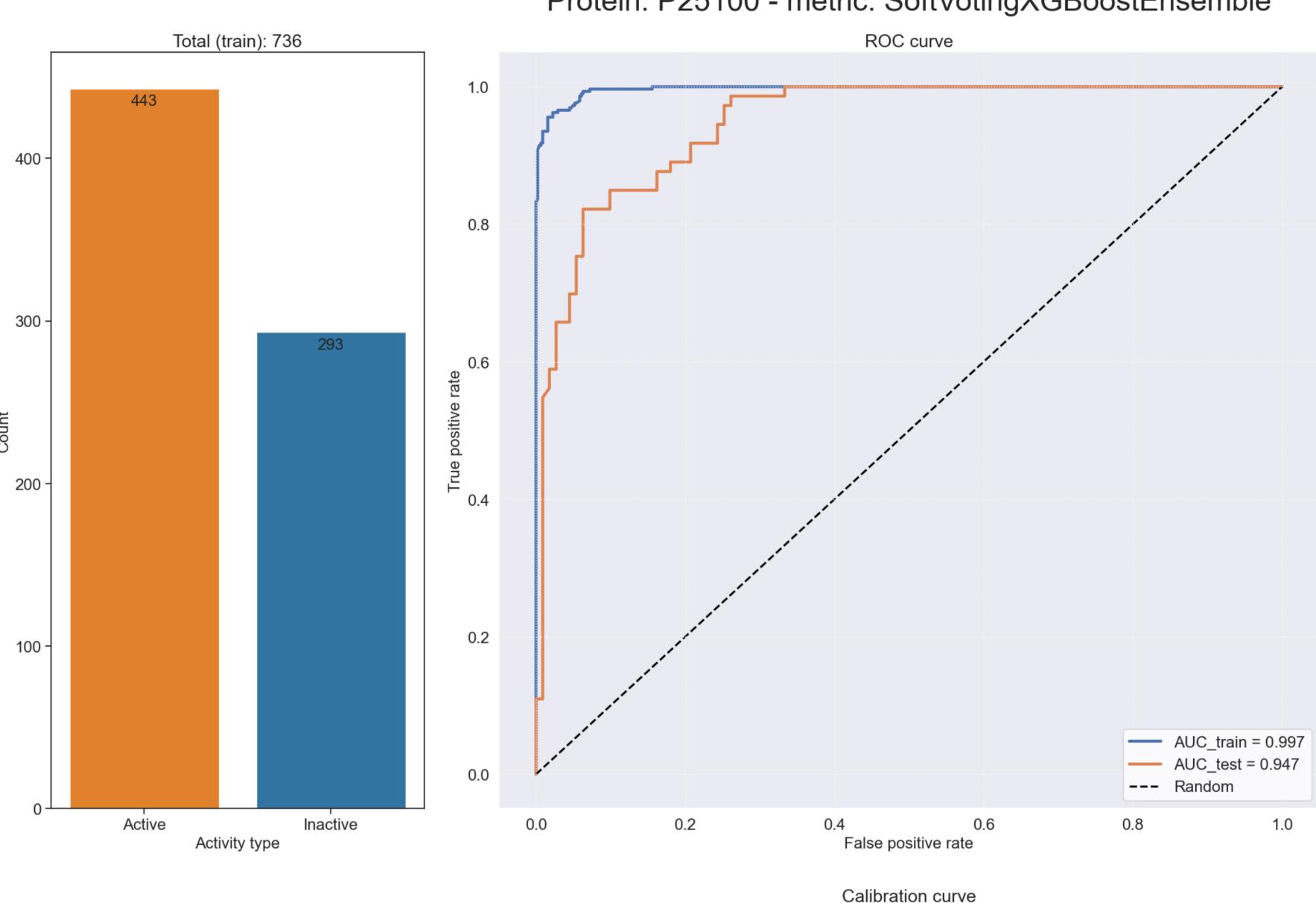
XGBoost Parameters	Value
alpha	3.3533
colsample_bytree	0.6315
gamma	0.2572
lambda	2.6961
learning_rate	0.0058
max_depth	10.0
min_child_weight	1.0
n_estimators	977.0
reg_alpha	0.1646
reg_lambda	0.1431
scale_pos_weight	1.0473
subsample	0.683

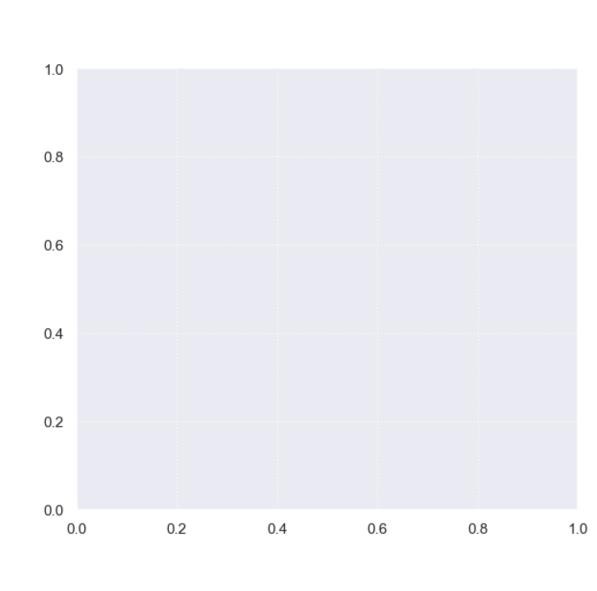


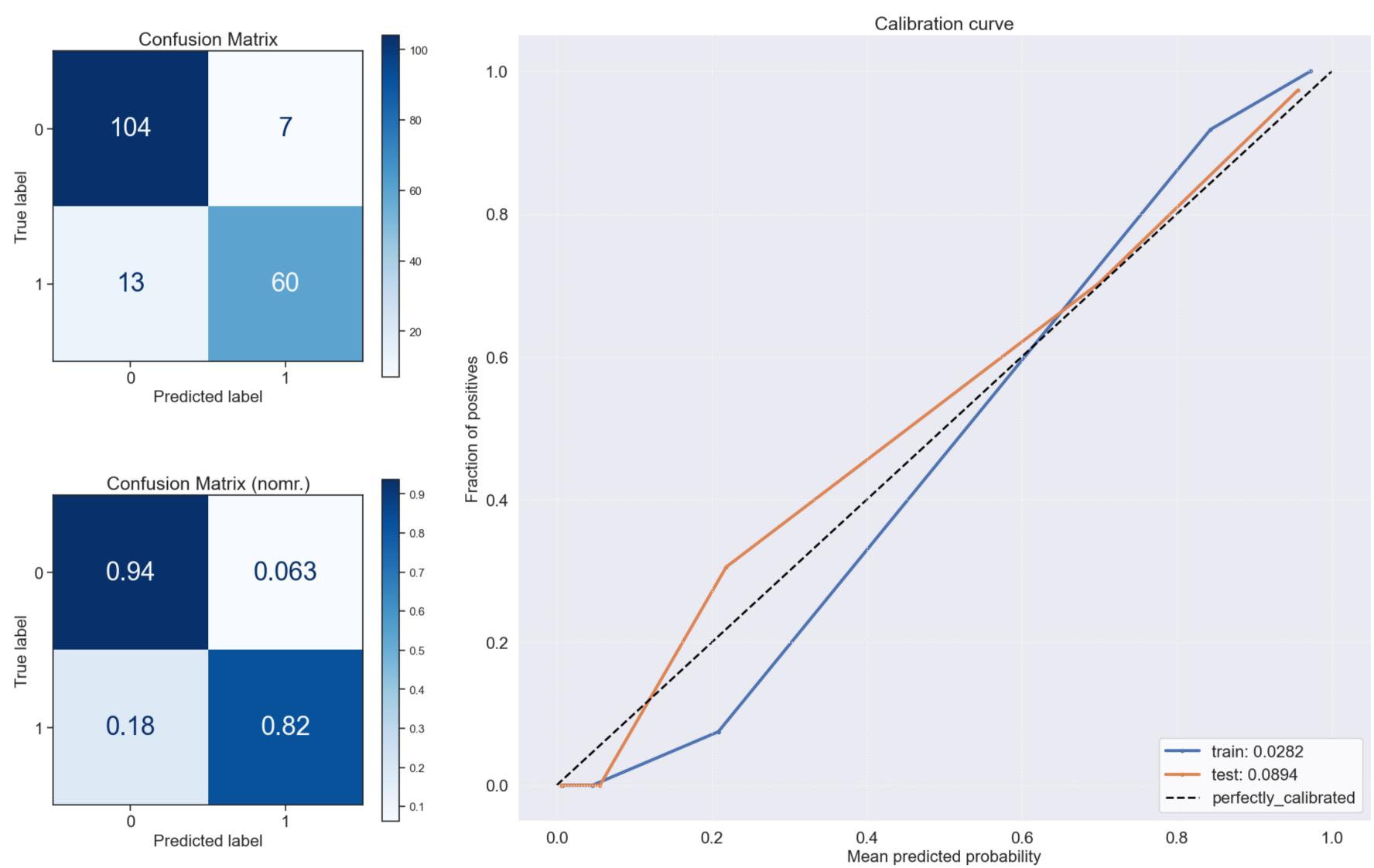
			Active/Inactive	e probability		
35		Inactive zone			Active zone	type active (73) inactive (111) decoy (183)
25						
Percent 05						
15						
10						
5						
0 —	0.0	0.2	0.4	0.6	0.8	1.0
			Proba	bility		

Metric	Train	Test
AUC	0.9976	0.9551
accuracy	0.9728	0.8913
balanced accuracy	0.9699	0.8794
recall_(sens)	0.9556	0.8219
specificity	0.9842	0.9369
precision	0.9756	0.8955
f1_score	0.9728	0.8904

Protein: P25100 - metric: SoftVotingXGBoostEnsemble







35 -		Inactive zone			Active z		type active (7	
30 -							decoy (183)
25 -								
Percent								
15 -								
10 -		_ П					П	
5-								
0-	0.0	0.2	0.4 Prob	0.6 pability	0.	8	1.0	0

Active/Inactive probability

Metric	Train	Test
AUC	0.9968	0.9474
accuracy	0.9688	0.8913
balanced accuracy	0.9677	0.8794
recall_(sens)	0.9625	0.8219
specificity	0.9729	0.9369
precision	0.9592	0.8955
f1_score	0.9688	0.8904