

Table S11: Performance of hybrid model (MOTIF+ML) on the validation set of gram-positive ABPs independent set at different frequencies

Frequency of a motif	Correct hits (MOTIF+ML)	Sn	Sp	Acc	AUC	AUPRC	MCC
fp10_motif	84.68%	83.3	86.0	84.7	0.91	0.88	0.69
fp20_motif	85.22%	81.7	88.7	85.2	0.92	0.90	0.71
fp30_motif	85.22%	81.2	89.3	85.2	0.92	0.90	0.71
Only ML	85.48%	80.7	90.3	85.5	0.93	0.92	0.71

Sn: Sensitivity, **Sp**: Specificity, **Acc**: Accuracy, **MCC**: Matthews Correlation Coefficient, **AUC**: Area Under the Receiver Operating Characteristic curve, **AUPRC**: Area Under the Precision-Recall Curve