

**Table S13: Performance of hybrid model (MOTIF+ML) on the validation set of gram-variable ABPs independent set at different frequencies**

Frequency of a motif	Correct hits (MOTIF+ML)	Sn	Sp	Acc	AUC	AUPRC	MCC
fp10_motif	86.03%	86.7	85.4	86.0	0.93	0.92	0.72
fp20_motif	87.01%	85.8	88.3	87.0	0.94	0.94	0.74
fp30_motif	87.28%	85.5	89.1	87.3	0.94	0.93	0.75
Only ML	<b>87.01%</b>	<b>83.9</b>	<b>90.1</b>	<b>87.0</b>	<b>0.94</b>	<b>0.93</b>	<b>0.74</b>

# **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