

**Table S8. Prediction of peptide hormones**

	Long					Short				
	Spec	Sen	FPR	Q	MCC	Spec	Sen	FPR	Q	MCC
AntiBP2										
Control	51.5	90.5	0.85			48.8	91.3	0.96		
Bioactive	60.6	14.6	0.09			33.3	4.4	0.09		
All				52.6	0.08				47.8	-0.09
CAMP										
Control	52.7	51.4	0.47			54.3	76.7	0.65		
Bioactive	51.6	52.9	0.49			60.2	35.3	0.23		
All				52.2	0.04				56.0	0.13
PeptideRanker										
Control	82.1	88.9	0.19			77.0	84.7	0.25		
Bioactive	87.9	80.6	0.11			83.0	74.7	0.15		
All				84.8	0.70				79.7	0.60

Comparison of AntiBP2, CAMP and PeptideRanker tested on the PeptideDB.70 Peptide hormone activity class subset of the independent test set. AntiBP2 did not return predictions for 212 of the 486 long and 254 of the 300 short peptides. CAMP did not return predictions for five of the long peptides. Statistics were calculated on the subset of peptides for which predictions were available.