

## **Supplementary Material**

**Manuscript Title: Theoretical approach to spot active regions in antimicrobial proteins.**

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**Table S1. Negative testing dataset results.**

<b>Protein ID</b>	<b>Predicted</b>	<b>Observed</b>
<i>P56508</i>	N	N
<i>Q05676</i>	N	N
<i>P40204</i>	N	N
<i>P41806</i>	N	N
<i>P22289</i>	N	N
<i>P37299</i>	N	N
<i>P07215</i>	N	N
<i>Q6Q547</i>	P	N
<i>P40422</i>	N	N
<i>P03094</i>	P	N
<i>P69852</i>	N	N
<i>Q12287</i>	N	N
<i>Q3E764</i>	P	N
<i>P04039</i>	N	N
<i>Q6Q5K6</i>	P	N
<i>P01094</i>	N	N
<i>P01095</i>	N	N
<i>P38636</i>	N	N
<i>Q6Q546</i>	N	N
<i>P81451</i>	N	N

**Specificity:** 80 %**Negative (N) and positive (P) hits for each polypeptide are indicated, as predicted by the theoretical approach (Predicted) and reported from experimental evidence in the literature (Observed).**

**Table S2. Positive testing dataset results.**

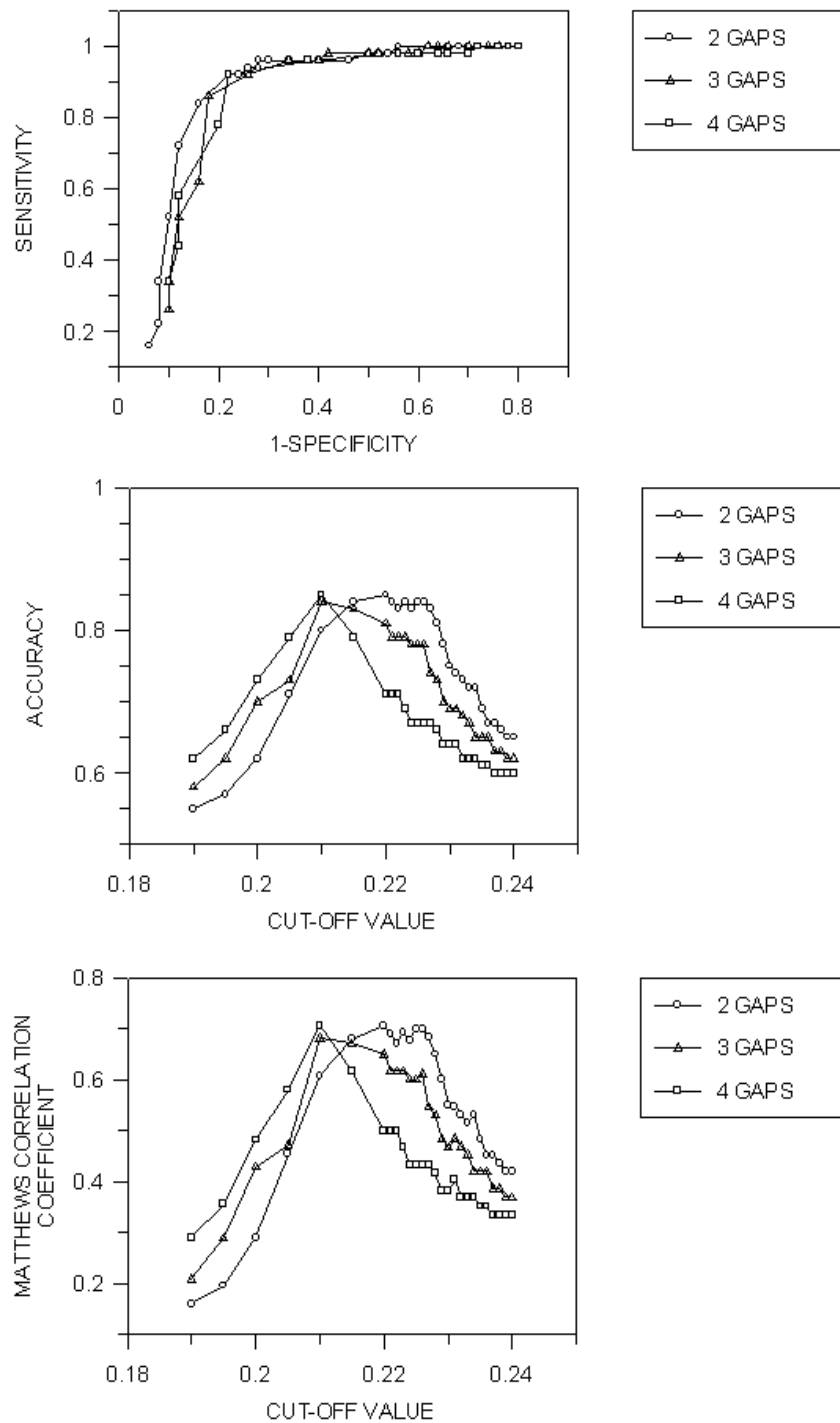
<b>Protein ID</b>	<b>Predicted</b>	<b>Observed</b>
<i>P80032</i>	P	P
<i>P81058</i>	P	P
<i>P81592</i>	P	P
<i>P01376</i>	P	P
<i>P60030</i>	P	P
<i>Q93X17</i>	P	P
<i>Q95NH6</i>	P	P
<i>Q07932</i>	P	P
<i>P06833</i>	P	P
<i>P37363</i>	N	P
<i>Q7M249</i>	P	P
<i>O76145</i>	P	P
<i>P22749</i>	P	P
<i>P32195</i>	P	P
<i>Q6IV20</i>	P	P
<i>B5LUR0</i>	P	P
<i>Q25054</i>	N	P
<i>Q29075</i>	P	P
<i>P14213</i>	P	P
<i>P82358</i>	P	P

**Sensitivity:** 90 %

Negative (N) and positive (P) hits for each polypeptide are indicated, as predicted by the theoretical approach (Predicted) and reported from experimental evidence in the literature (Observed).

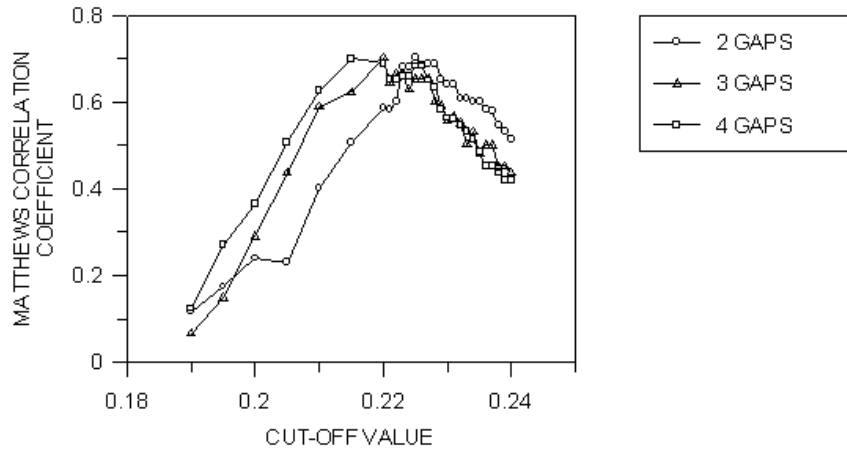
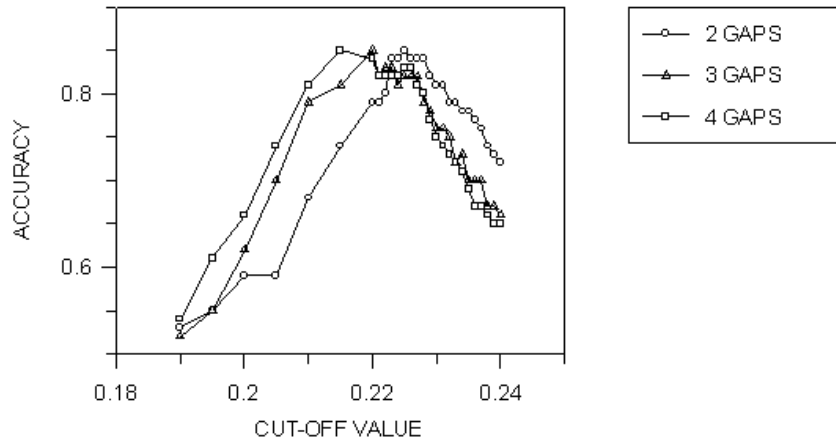
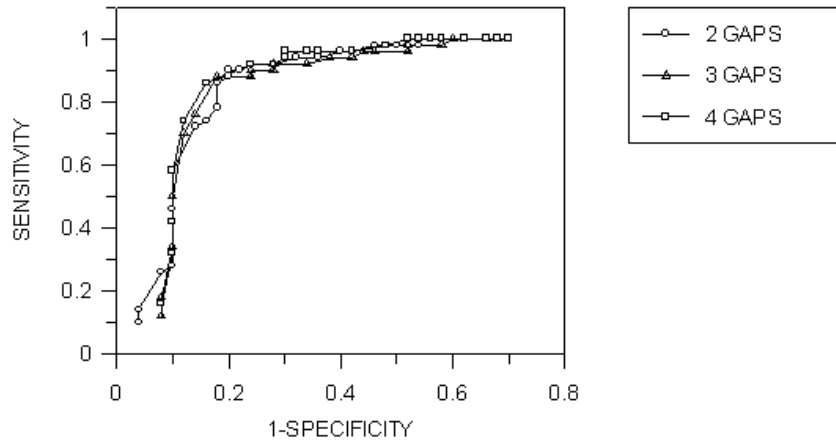
**Figure S1. Statistical analysis of the results obtained using a 10 amino acid predictive length and different gap inclusion.**

## PREDICTIVE LENGTH 10



**Figure S2. Statistical analysis of the results obtained using a 12 amino acid predictive length and different gap inclusion.**

# PREDICTIVE LENGHT 12



**Figure S3. Statistical analysis of the results obtained using a 10 amino acid predictive length and different gap inclusion.**

### PREDICTIVE LENGTH 14

