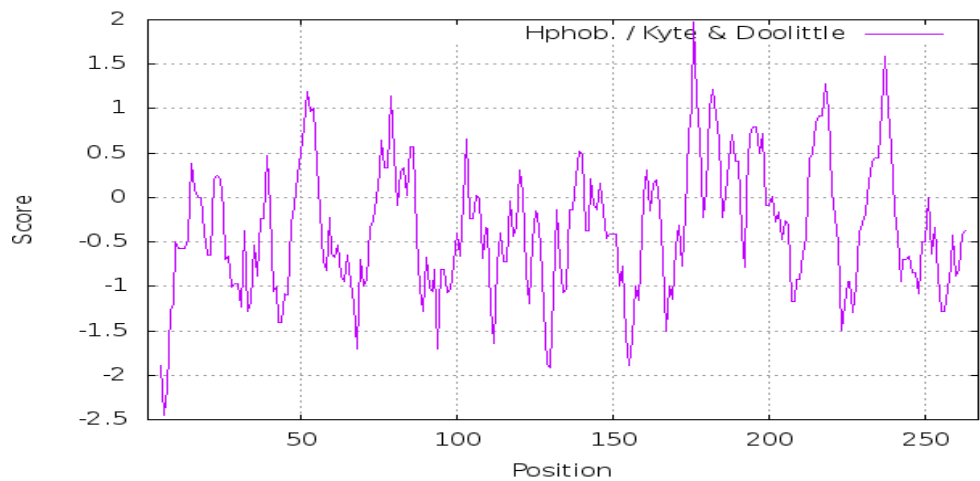


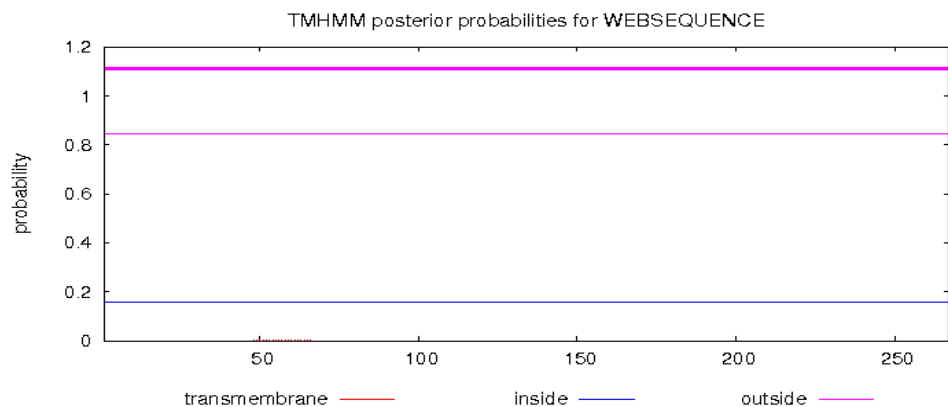
Figure S1 Bioinformatic analysis of PstB

(A) Hydrophobicity analysis. The hydrophobicity analysis was performed using software ProtScale (<https://web.expasy.org/protscale/>).



(B) Transmembrane domain analysis. The transmembrane domain was analyzed using the software TMHMM (<http://www.cbs.dtu.dk/services/TMHMM/>).

```
# WEBSEQUENCE Length: 267
# WEBSEQUENCE Number of predicted TMHs: 0
# WEBSEQUENCE Exp number of AAs in TMHs: 0.00635
# WEBSEQUENCE Exp number, first 60 AAs: 0.00262
# WEBSEQUENCE Total prob of N-in: 0.15608
WEBSEQUENCE TMHMM2.0 outside 1 267
```



(C) Antigenicity analysis. The antigenicity was analyzed using Protean software of DNASTar package.

