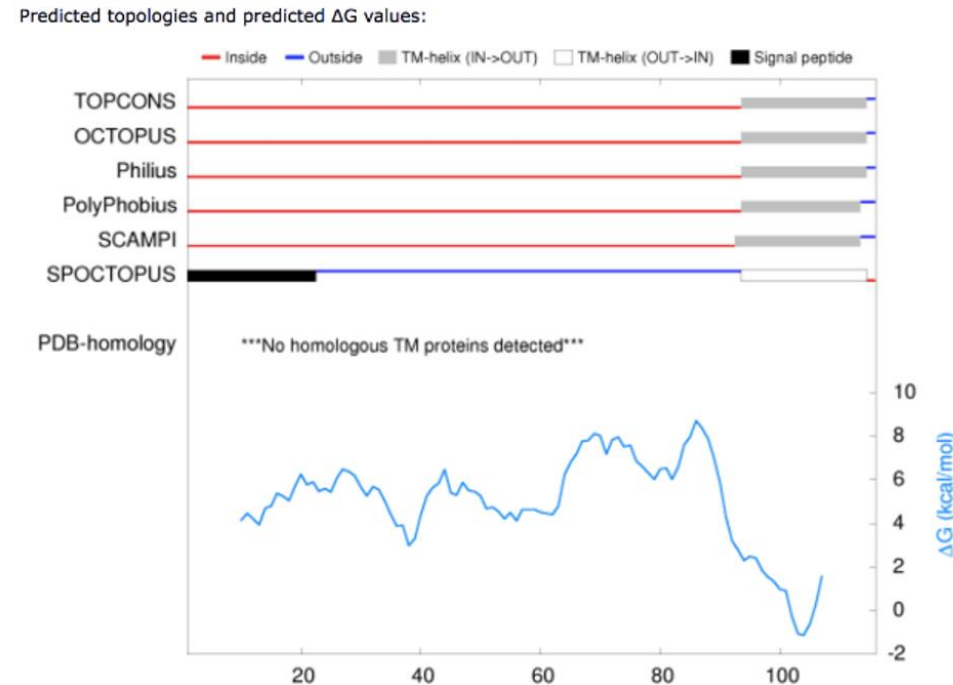


**Supplementary Figure S1** Photographed PVX constructs infiltrated leaf pictures stained with DAB, NBT and trypan blue (at 5 dpi).



Predicted signal peptide and TM-helix positions (position starting from 1):

TOPCONS	TM1: 94-114
OCTOPUS	TM1: 94-114
Philius	TM1: 94-114
PolyPhobius	TM1: 94-113
SCAMPI	TM1: 93-113
SPOCTOPUS	SP: 1-23, TM1: 94-114
PDB-homology	***No homologous TM proteins detected***

### Supplementary Figure S2 $\beta$ V1 protein topology prediction.

Transmembrane topology derived using TOPCONS web server, the consensus prediction of transmembrane domain by individual sub-method are represented and predicted G values are indicated in the graph