

Table S3 – H-Bonds Analysis.

tLyp1			tLyp1 fused to CP of TBSV		
H-Bonds		Occupancy	H-Bonds		Occupancy
<i>NRP-1</i>	<i>tLyp1</i>		<i>NRP-1</i>	<i>tLyp1</i>	
GLN 296	ARG 7	19.25 %	PRO 317	ARG 7	<u>70.94 %</u>
TYR 297	LYS 4	14.43 %	GLY 318	ARG 5	<u>60.16 %</u>
TYR 297	ARG 7	14.54 %	GLU 319	ARG 5	<u>59.22 %</u>
GLY 318	ARG 7	<u>41.70 %</u>	GLU 319	ASN 3	<u>51.88 %</u>
GLU 319	ARG 7	16.92 %	ASP 320	ARG 7	<u>93.93 %</u>
ASP 320	ASN 3	28.57 %	LYS 351	ARG 7	<u>59.55 %</u>
ASP 320	ARG 5	<u>43.96 %</u>	Residues of CP of TBSV		
ARG 323	ARG 7	11.56 %	GLY 375	ASP 191	30.98 %
THR 413	ARG 5	13.74 %	LYS 397	ASP 191	37.65 %

CooP			CooP fused to CP of TBSV		
H-Bonds		Occupancy	H-Bonds		Occupancy
<i>FABP3</i>	<i>CooP</i>		<i>FABP3</i>	<i>CooP</i>	
TYR 19	GLY 7	<u>90.39 %</u>	THR 53	LEU 6	<u>46.85 %</u>
THR 60	GLY 2	10.49 %	ARG 106	GLY 7	<u>67.38 %</u>
GLN 95	GLY 7	<u>38.99 %</u>	ARG 126	LEU 3	<u>57.78 %</u>
ARG 126	ALA 9	<u>100.00 %</u>	TYR 128	SER 4	<u>49.94 %</u>

Residues of CP of TBSV		
LYS 52	ASP 341	<u>46.58 %</u>

Note: H-Bonds between peptides and receptors and their occupancy (%) along the simulation. The H-Bonds with occupancy > 40% along the trajectory are underlined. The binding to NRP-1 and of FABP3 by their peptides fused to the TBSV CP seems to be stronger compared to the free peptides as assessed by the higher H-Bonds occupancy values.