

Supplementary Materials:

Table S1: Sequence BLASTX information for *OcomOBP7* in *O. communis*.

Gene Name	Species Name	Acc. number	Identity (%)
CforOBP26	<i>Cylas formicarius</i>	UNA06110.1	44.37
CbowOBP1	<i>Colaphellus bowringi</i>	ALR72489.1	54.23
MaltOBP4	<i>Monochamus alternatus</i>	AHA39269.1	50.00
BhorOBP1	<i>Batocera horsfieldi</i>	AHA33382.1	52.82
XquaOBP8	<i>Xylotrechus quadripes</i>	AXO78386.1	48.95
AglaOBP14	<i>Anoplophora glabripennis</i>	ARH65469.1	48.59
HaxyOBP7	<i>Harmonia axyridis</i>	AVH84914.1	43.66

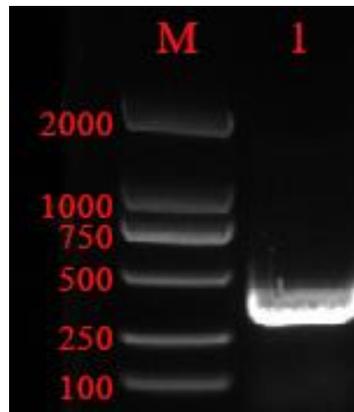


Figure S1. PCR product of *OcomOBP7*. Line M: Trans2K DNA Maker; Line 1: PCR product of *OcomOBP7* sequence.

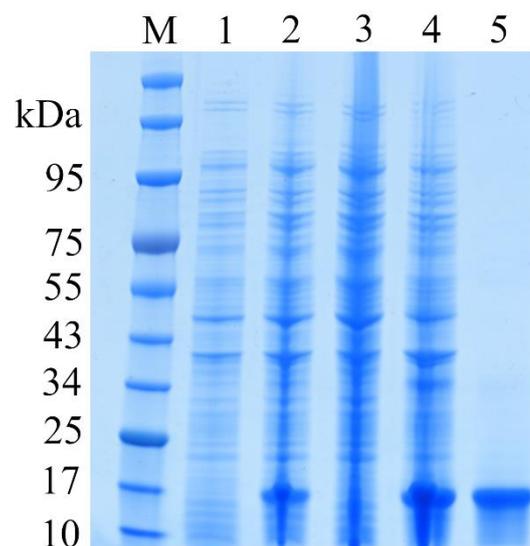


Figure S2. SDS-PAGE of expression and purification of *OcomOBP7*. M: molecular weight marker; 1: noninduced pET28a-*OcomOBP7*; 2: induced pET28a-*OcomOBP7*; 3: supernatant of

induced pET28a-OcomOBP7; 4: inclusion body of induced pET28a-OcomOBP7; 5: Purified pET28a-OcomOBP7.

Protein View

Match to: **OBP7-sequence** Score: 5991

Found in search of K:\qe\BPI_27182_OBP_7.mgf
Translated in frame 1

NB Matches were also found in other frames indicating a possible frame shift.
Only matches in frame 1 are shown in this report

Show frame

1 ▾

Nominal mass (M_r): **15746**; Calculated pI value: **7.48**

NCBI BLAST search of [OBP7-sequence](#) against nr
Unformatted [sequence string](#) for pasting into other applications

Fixed modifications: Carbamidomethyl (C)
Variable modifications: Gln->pyro-Glu (N-term Q), Oxidation (M)
Cleavage by Trypsin: cuts C-term side of KR unless next residue is P
Sequence Coverage: **82%**

Matched peptides shown in **Bold Red**

```
1 MKWFLLGICI YFIMEDVWCA VTEKQLNATK KLVNSCTAK SKVAPEVIDA  
51 MHKGDFSEGQ CYIQCIMNTY KLIKPDGSPD WEGGVAAVNA NLP SNLAVAA  
101 AASIKNCKDS LKNKSDKCMG AAEVAMCIYN TDPNRYFLP_
```

Figure S3. Results of mass spectrometry identification of OcomOBP7.