

## **Supplementary Material**

**Fig. S1 :** phylogenetic relationships of the species used in this analysis. The tree is issued from FlyBase : *Flybase*:<http://flybase.bio.indiana.edu/blast/>

### **Fig S2 : Expression of *Tep3* in larvae and adult.**

A : Expression of *Tep3* in wild-type and mutant flies in the presence or the absence of an *E. coli* and *M. luteus* immune challenge. Whole mount *in situ* hybridization on late third instar larvae hemocytes (B-C); *in situ* hybridization on adult paraffin longitudinal sections (D-E). Left-hand panels : *Tep* gene expression; right-hand panels: controls. The probe used for *in situ* hybridization is indicated on the top right corner of each panel whereas the genotype is indicated on the bottom right corner. The following tissues are shown: hemocytes (B-C); crop (arrows) and hypoderm (arrowheads) (D-E).

### **Fig. S3 : Expression of *Tep1-GFP*.**

Larvae (A-F) and adult (G-L) before (A, C, E, G, I, K) or after (B, D, F, H, J, L) an immune challenge with *E. coli* and *M. luteus*. Expression of *Tep1-GFP* in sessile hemocytes (arrowheads) that reside in all larval segments, e.g., here in the anterior ones, and larval fat body (stars) (A-D). Magnification of larval fat body revealed a weak increase in GFP signaling upon immune challenge (compare C to D). The GFP signal is highly increased after immune challenge in adult fat body (stars in G- J) .

The proventriculus is a structure located at the frontier between foregut and midgut is visualized by DAPI staining, which reveals nuclei (E-F, K-L); the anterior and posterior regions of the proventriculus expressing the *Tep1-GFP* transgene are respectively labeled by an arrow and an arrowhead.

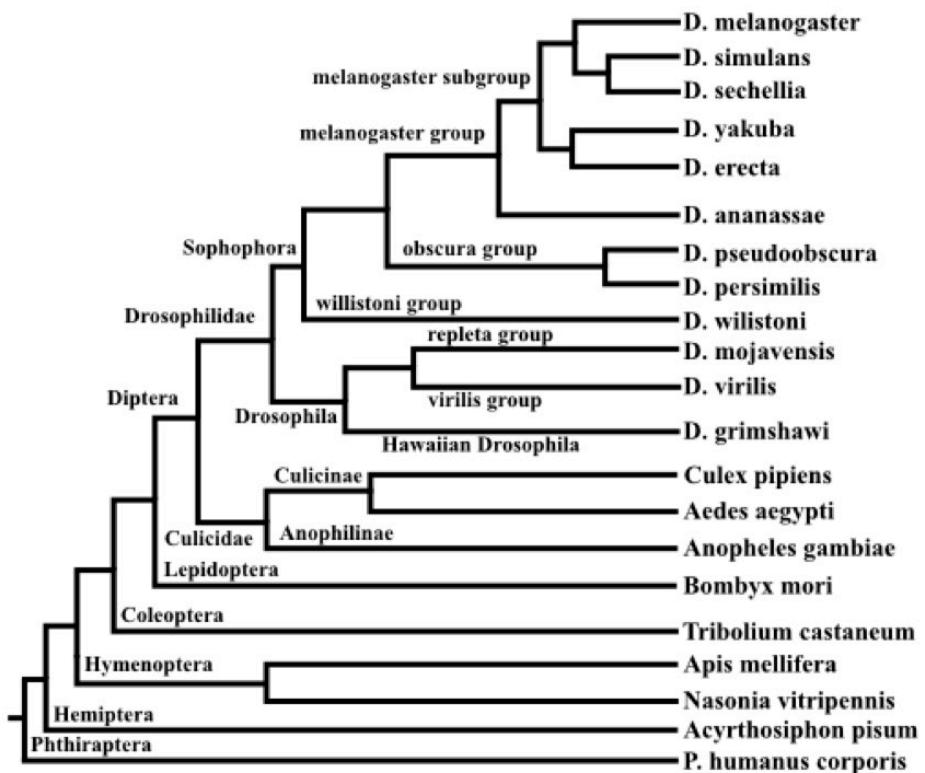
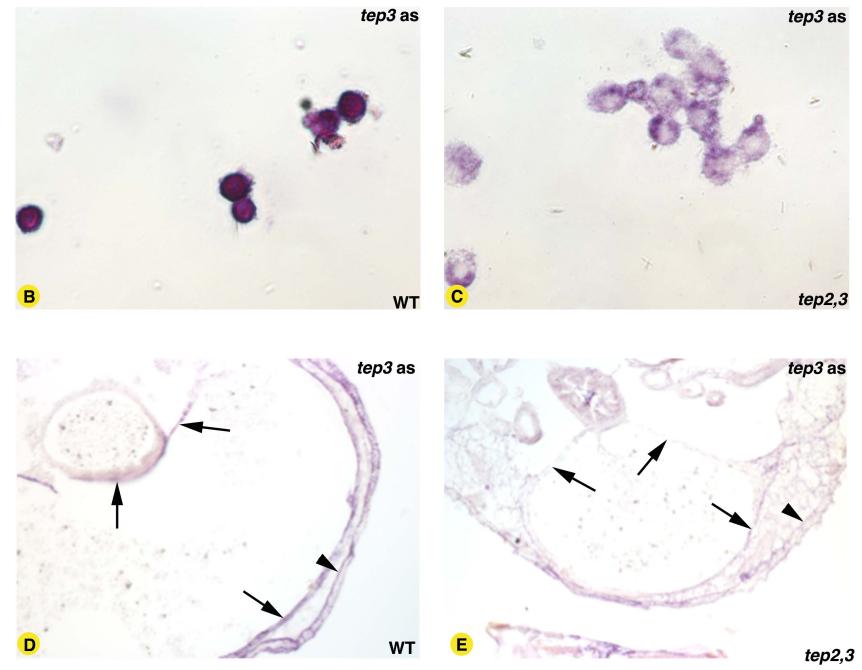
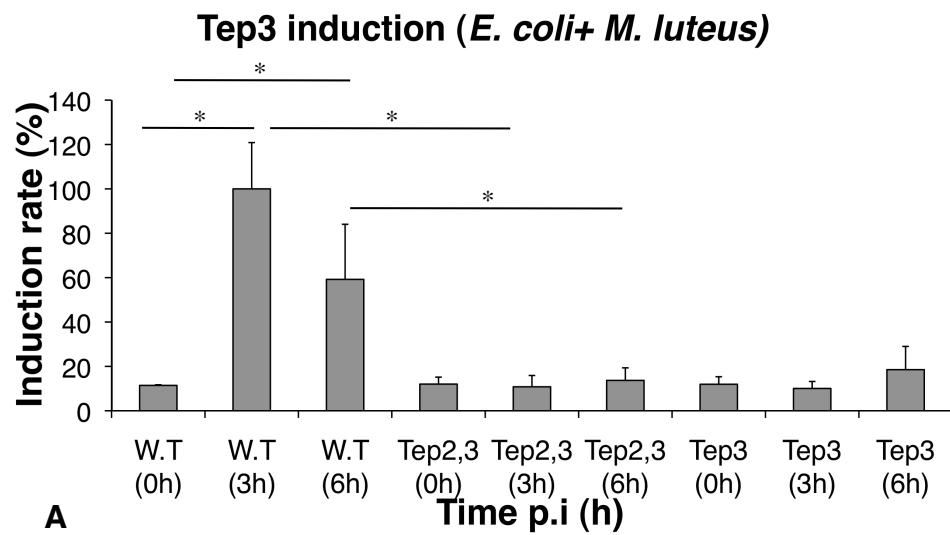
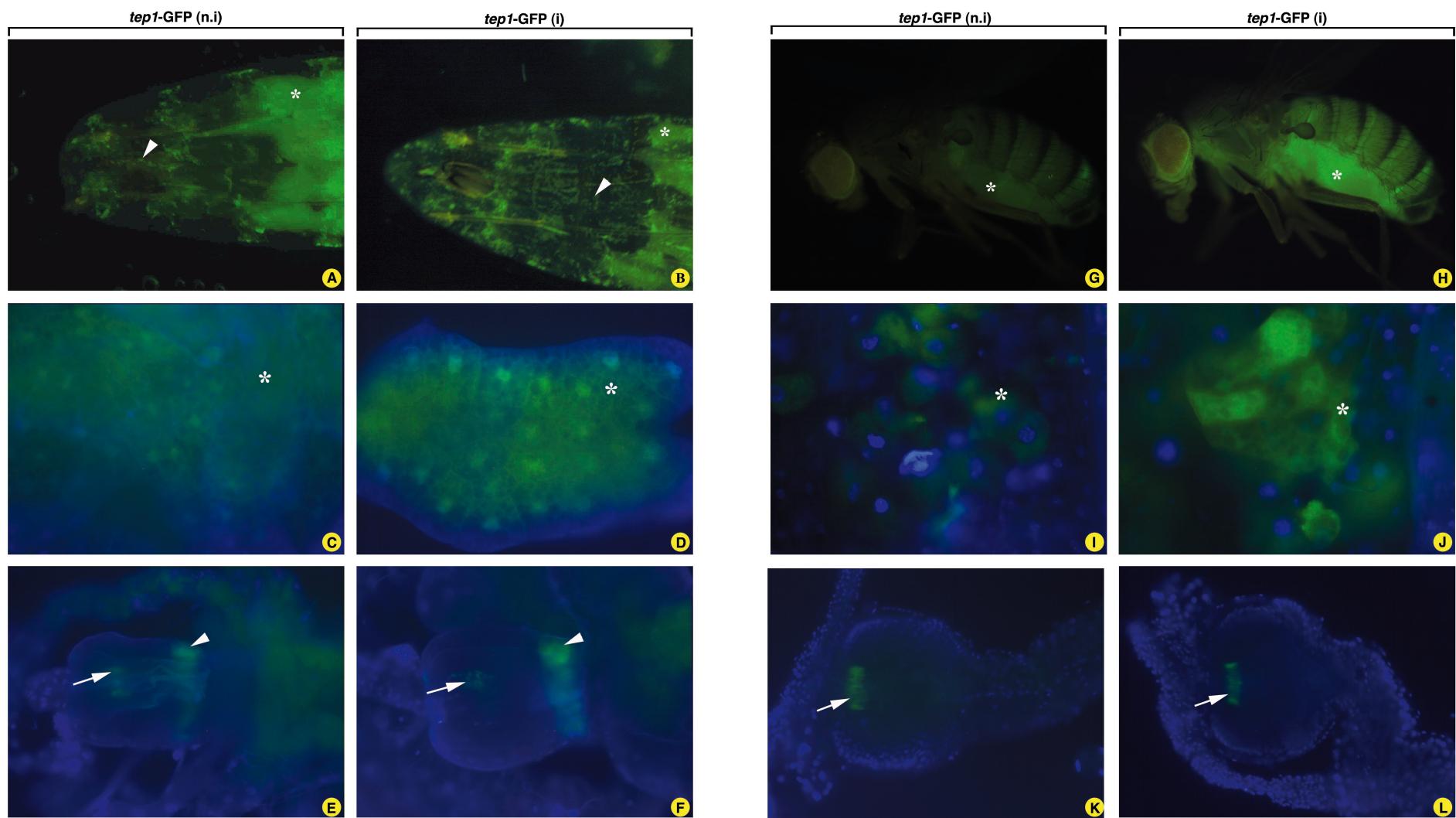


Figure S1



**Figure S2**



**Figure S3**

<b>I) Arthropods</b>			
<b>A) Insects</b>			
<b>i) Dipterans</b>			
Drosophila melanogaster TEP1 :	NM_078854.1	Drosophila erecta TEP5 :	XP_001974231.1
Drosophila simulans TEP1 :	XM_002079551.1	Drosophila pseudoobscura TEP5 :	XP_002132292.1
Drosophila sechellia TEP1 :	XM_002038082.1	Drosophila persimilis TEP5 :	no prediction, found by the authors
Drosophila yakuba TEP1 :	XM_002089959.1	Drosophila mojavensis TEP5 :	XP_002002517.1
Drosophila erecta TEP1 :	XM_001968967.1	Drosophila mojavensis TEP5 :	XP_002002959.1
Drosophila ananassae TEP1 :	XM_001961445.1	Drosophila melanogaster TEP6 :	NM_079949.2
Drosophila melanogaster TEP2A :	NM_078782.2	Drosophila simulans TEP6 :	XM_002078550.1
Drosophila simulans TEP2 :	XM_002078493.1	Drosophila sechellia TEP6 :	XM_002036115.1
Drosophila sechellia TEP2 :	XM_002036056.1	Drosophila yakuba TEP6 :	XM_002088702
Drosophila yakuba TEP2 :	XM_0029087985.1	Drosophila erecta TEP6 :	XM_001970201.1
Drosophila erecta TEP2 :	XM_001970143.1	Drosophila ananassae TEP6 :	XM_001961741.1
Drosophila ananassae TEP2 :	XM_001962102.1	Drosophila pseudoobscura TEP6 :	XM_001355888.2
Drosophila pseudoobscura TEP2 :	XM_001356425.2	Drosophila persimilis TEP6 :	XM_002027217.1
Drosophila persimilis TEP2 :	XM_002014581.1	Drosophila willistoni TEP6 :	XM_002065156.1
Drosophila willistoni TEP2 :	XM_002064586.1	Drosophila mojavensis TEP6 :	XM_002003414.1
Drosophila mojavensis TEP2 :	XM_002001541.1	Drosophila virilis TEP6 :	XM_002052649.1
Drosophila virilis TEP2 :	XM_002059100.1	Drosophila grimshawi TEP6 :	XM_001989203.1
Drosophila grimshawi TEP2 :	XM_001989373.1	Anopheles 1 (Anopheles gambiae):	gb AAG0600.1
Drosophila melanogaster TEP3 :	NM_078783.2	Anopheles 2 (Anopheles gambiae):	gb EAA12831.3
Drosophila simulans TEP3:	no prediction, found by the authors	Anopheles 3 (Anopheles gambiae):	gb EAA10529.4
Drosophila sechellia TEP3:	XM_002036057.1	Anopheles 4 (Anopheles gambiae):	gb EAA13702.4
Drosophila yakuba TEP3 :	XM_002087984.1	Anopheles 8 (Anopheles gambiae):	gb EAA05466.3
Drosophila erecta TEP3 :	XM_001970144.1	Anopheles 9 (Anopheles gambiae):	gb EAA05467.1
Drosophila ananassae TEP3 :	XM_001962103.1	Anopheles 10 (Anopheles gambiae):	gb EAA05464.3
Drosophila pseudoobscura TEP3 :	XM_001356426.2	Anopheles 11 (Anopheles gambiae):	gb EAA05431.1
Drosophila persimilis TEP3 :	XM_002014582.1	Anopheles 12 (Anopheles gambiae):	gb EAA10138.3
Drosophila willistoni TEP3 :	XM_002064585.1	Anopheles 13 (Anopheles gambiae):	gb EAA12257.3
Drosophila mojavensis TEP3 :	XM_002003562.1	Anopheles 14 (Anopheles gambiae):	gb EAA12832.2
Drosophila virilis TEP3 :	XM_002052855.1	Anopheles 15 (Anopheles gambiae):	gb EAA12171.2
Drosophila grimshawi TEP3 :	XM_001988571.1	Anopheles 19 (Anopheles gambiae):	gb EAA05465.2
Drosophila melanogaster TEP4 :	NM_078879.2	Aedes 1 (Aedes aegypti):	gb EAT39604.1
Drosophila simulans TEP4 :	XM_002039102.1	Aedes 2 (Aedes aegypti):	gb EAT32989.1
Drosophila sechellia TEP4 :	XM_002039102.1	Aedes 3 (Aedes aegypti):	gb EAT47740.1
Drosophila yakuba TEP4 :	XM_002090691.1	Culex 1 (Culex pipiens):	gb EDS37554.1
Drosophila erecta TEP4 :	XM_001974196.1	Culex 2 (Culex pipiens):	gb EDS41702.1
Drosophila ananassae TEP4 :	XM_001962764.1	Culex 3 (Culex pipiens):	gb EDS33561.1
Drosophila pseudoobscura TEP4 :	XM_001357262.2	Culex 4 (Culex pipiens):	gb EDS37555.1
Drosophila persimilis TEP4 :	XM_002021891.1	Culex 5 (Culex pipiens):	gb EDS37556.1
Drosophila willistoni TEP4 :	XM_002066729.1	Culex 6 (Culex pipiens):	gb EDS53102.1
Drosophila mojavensis TEP4 :	XM_002002481.1		
Drosophila virilis TEP4 :	XM_002057576.1		
Drosophila grimshawi TEP4 :	XM_001992803.1		
		<b>i) Hymenoptera</b>	
		Apis 1 (Apis mellifera):	XP_397416.2
		Apis 2 (Apis mellifera):	XP_001122599.1
		Apis 3 (Apis mellifera):	XP_392454.2
		<b>i) Coleoptera</b>	
		Tribolium 1 (Tribolium castaneum) :	XP_001814363.1
		Tribolium 2 (Tribolium castaneum) :	GLEAN_09667
		Tribolium 3 (Tribolium castaneum) :	XP_972838.1
		Tribolium 4 (Tribolium castaneum) :	XP_970922.1
		<b>ii) Hemiptera</b>	
		Acyrtosiphon (Acyrtosiphon pisum):	XP_001944348.1
		<b>iii) Phthiraptera</b>	
		Pediculus (Pediculus humanus corporis):	gb EEB15557.1
		<b>B) Crustacea</b>	
		Daphnia 1 (Daphnia pulex) : no prediction, found by the authors	
		Daphnia 2 (Daphnia pulex) : no prediction, found by the authors	
		<b>C) Chelicerata</b>	
		Ixodes (Ixodes scapularis):	gb EEC12664.1
		<b>II) Molluscs</b>	
		<b>A) Gasteropoda</b>	
		Biomphalaria (Biomphalaria glabrata) :	gb ACL00841.1
		Euphaedusa (Euphaedusa tau) :	gb BEA44110.1
		Lottia 1 (Lottia gigantea) : no prediction, found by the authors	
		Lottia 2 (Lottia gigantea) : no prediction, found by the authors	
		Lottia 3 (Lottia gigantea) : no prediction, found by the authors	
		<b>B) Bivalvia</b>	
		Chlamys (Chlamys farreri):	gb ABP04060.1

**Table S1: Identification numbers of the different species used for the phylogeny study**

**Table S2: Identification numbers of the different species used for the phylogeny study.**

Different Arthropods and Molluscs were used for our phylogenetic analysis. For references:

*D. melanogaster* : [1,2]

*D. pseudoobscura* : [3]

*D. sechellia*, *D. simulans*, *D. yakuba*, *D. erecta*, *D. ananassae*, *D. persimilis*, *D. willistoni*, *D. mojavensis*, *D. virilis* and *D. grimshawi* :[4]

*Anopheles gambiae* : [5]

*Apis mellifera* : (honey bee genome consortium., 2006)

*Tribolium castaneum* : [6]

*Aedes aegypti* : [7]

*Culex pipiens* : <http://www.vectorbase.org/Docs>ShowDoc/?doc=WhitePapers>.

*Nasonia vitripennis* : <http://www.hgsc.bcm.tmc.edu/>

*Pediculus humanus* : <http://www.vectorbase.org/Docs>ShowDoc/?doc=WhitePapers>.

*Acyrtosiphon pisum* : [8]

*Chlamys farreri* : [9]

*Biomphalaria glabrata*: [10]

*Ixodes scapularis* : <http://www.vectorbase.org/Docs>ShowDoc/?doc=WhitePapers>.

*Daphnia pulex* : <http://wFleaBase.org> and <http://www.jgi.doe.gov/Daphnia>

*Lottia gigantia* : <http://www.jgi.doe.gov/Lottia>

*Euphaedusa tau* : (Fujito,N., Ueshima,R. and Nonaka,M., unpublished data)

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