

**Y. H. Lin, W. Zhang, J. W. Li, H. W. Zhang, D. Y. Chen** “Amphioxus ortholog of *ECSIT*, an evolutionarily conserved adaptor in the TOLL and BMP signaling pathways” - **Supplemental materials**

### **1. The Genbank accession number for the proteins shown in Figure 1**

The Genbank accession numbers shown in Panel A of Figure 1 are as follows: human ECSIT: **AAH00193**; Norway rat ECSIT: **AAH83762**; mouse ECSIT: **AAH04583**; cattle ECSIT: **NP 001029458**; zebrafish ECSIT: **Q08CK1**; frog ECSIT: **NP 001072411**; mosquito ECSIT: **XP 001650325**; dog ECSIT: **XP 542054**; amphioxus ECSIT: **XP 002595420**; fruit fly ECSIT: **Q9U6M0**; bee ECSIT: **XP 001607437**; and urchin ECSIT: **XP 794444**.

The accession numbers for the proteins shown in Panel B of Figure 1 are as follows: human TLR1 through 10: **NP 003254**; **NP 003255**; **NP 003256**; **AAC34135**; **NP 003259**; **ABW37072**; **NP 057646**; **NP 619542**; **ABW37074**; and **AAK26744**, respectively; chimpanzee TLR4: **BAG55937**; mouse TLR1: **NP 109607**; mouse TLR2: **AAH14693**; mouse TLR4: **AF185285**; mouse TLR5: **NP 058624**; mouse TLR8: **NP 573475**; mouse TLR9: **AAU04981**; mouse TLR11: **NP 991388**; mouse TLR12: **NP 991392**; mouse TLR13: **NP 991389**; cattle TLR1 through 10: **ACH92575**; **ACH92789**; **ABN71665**; **AAQ62700**; **ABC68311**; **ACH92796**; **ABN71673**; **NP 001029109**; **NP 898904**; and **ABU86947**, respectively; zebrafish TLR3: **XP 001013287**; zebrafish TLR5: **XP 001124067**; zebrafish TLR7: **XP 701101**; zebrafish TLR21: **AAI63075**; zebrafish TLR22: **NP 001122147**; salmon TLR3: **NP 001133860**; salmon TLR22b: **CAR62394**; fugu TLR21: **NP 001027751**; fugu TLR22: **NP 001106664**; buffalo TLR3: **ABF59103**; cat TLR3: **NP 001073298**; amphioxus TLR1: **ABD58972**; and mosquito Toll: **XP 0016499808**.

The accession numbers for the proteins shown in Panel C of Figure 1 are as follows: human Smad4: **NP 005350**; mouse Smad4: **P97471**; Norway rat Smad4: **O70437**; cattle Smad4: **AAI51331**; dog Smad4: **XP 849370**; zebrafish Smad4: **NP 001116172**; amphioxus Smad4: **XP 002241770**; frog Smad4: **NP 001090536**; bee Smad4: **XP 392838**; fruit fly Smad4: **XP 001998857**; and schistosome Smad4: **CAZ31074**.

**FigureS1**

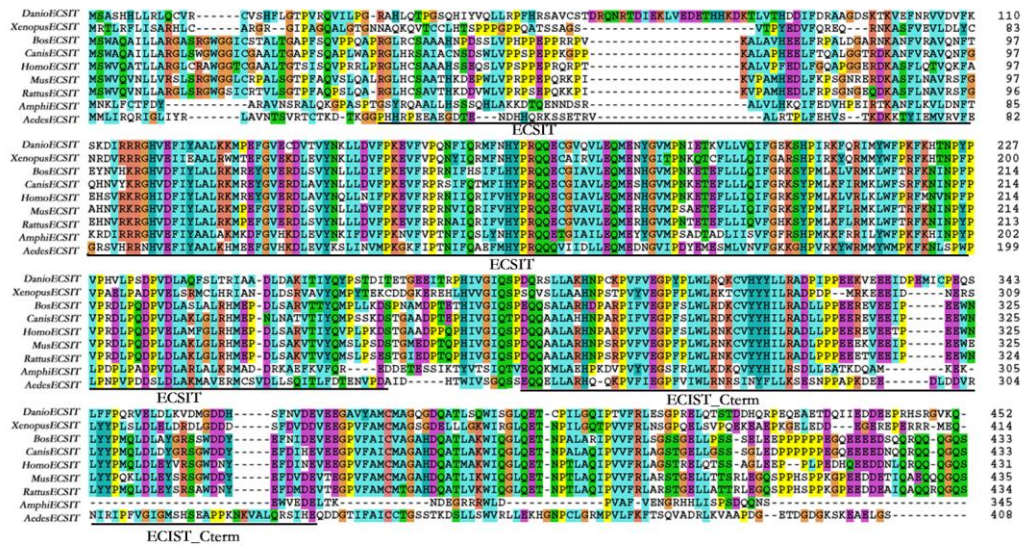


Figure S1. Alignment of the amino acid sequence of the predicted AmphiECSIT protein with those of the ECSIT proteins of vertebrates. The sequence alignment of ECSIT proteins was generated by using DNAMAN software. The Genbank accession numbers for the proteins listed in the alignment are as follows: human ECSIT: AAH00193; Norway rat ECSIT: [AAH83762](#); mouse ECSIT: [AAH04583](#); cattle ECSIT: [NP\\_001029458](#); frog ECSIT: [NP\\_001072411](#); zebrafish ECSIT: [Q08CK1](#); mosquito ECSIT: [XP\\_001650325](#); and dog ECSIT: [XP\\_542054](#).

**Figure S2**

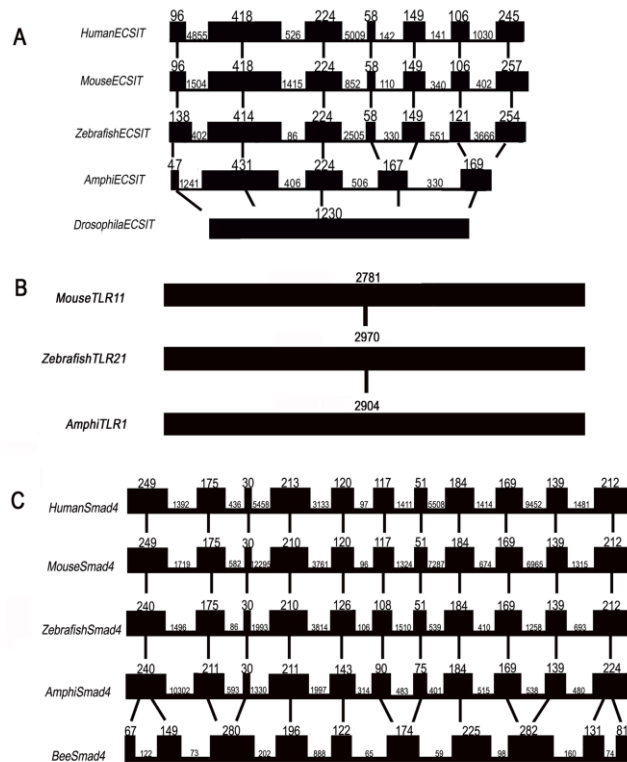


Figure S2. Diagram of the structures of the *ECSIT*, *TLR*, and *Smad4* genes. The Genbank accession numbers for the genes in figure 2 are shown as follows: human *ECSIT*: **NC 000019**; mouse *ECSIT*: **NC 000075**; zebrafish *ECSIT*: **NC 007118**; fruit fly *ECSIT*: **NT 033777**; amphioxus *ECSIT*: **NW 003101430** mouse *TLR11*: **239081**; zebrafish *TLR21*: **402884**; amphioxus *TLR1*: **AF391294**; human *Smad4*: **4089**; mouse *Smad4*: **NC 000084**; zebrafish *Smad4*: **559111**; amphioxus *Smad4*: **7212530**; and bee *Smad4*: **409321**. The solid boxes represent exons, and the lengths of the exons are scaled. The thin lines indicate the locations of the introns.