

Supplementary Table 1. The sequences used for the multiple sequence alignment and phylogenetic analysis of the thioester protein family including CrC3.

Code name	Name	Accession number	Organism
aTEP	<i>Anopheles</i> TEP-I	AF291654	<i>Anopheles gambiae</i>
dTEPI	<i>Drosophila</i> TEP1	CAB87807	<i>Drosophila melanogaster</i>
dTEPII	<i>Drosophila</i> TEP2	CAB87808	<i>Drosophila melanogaster</i>
dTEPIII	<i>Drosophila</i> TEP3	CAB87809	<i>Drosophila melanogaster</i>
dTEPIV	<i>Drosophila</i> TEP4	CAB87810	<i>Drosophila melanogaster</i>
cTEP	<i>Caenorhabditis</i> TEP2	T27829	<i>Caenorhabditis elegans</i>
SeC3	Cnidaria C3-like protein	AAN86548	<i>Swiftia exserta</i>
BbC3	Amphioxus C3	BAB47146	<i>Branchiostoma belcheri</i>
SpC3	Sea urchin C3	AF025526	<i>Strongylocentrotus purpuratus</i>
CrC3	Horseshoe crab C3	AF517564	<i>Carcinoscorpius rotundicauda</i>
HrC3	<i>Halocynthia</i> (Ascidian) C3	AB006964	<i>Halocynthia rorezi</i>
CiC3	<i>Ciona</i> (Ascidian) C3	CAC85959	<i>Ciona intestinalis</i>
HaC3	Hagfish C3	Z11595	<i>Eptatretus burgeri</i>
LaC3	Lamprey C3	Q00685	<i>Entosphenus japonicus</i>
TrC3	Trout C3	I51339	<i>Oncorhynchus mykiss</i>
CaC3	Carp C3-H1	AB016210	<i>Cyprinus carpio</i>
XeC3	Xenopus C3	AAB60608	<i>Xenopus laevis</i>
ChC3	Chicken C3	I50711	<i>Gallus gallus</i>
CoC3	Cobra C3	Q01833	<i>Naja naja</i>
CVF	Cobra Venom Factor	I51018	<i>Naja naja</i>
HuC3	Human C3	P01024	<i>Homo sapiens</i>
GpC3	Guinea Pig C3	P12387	<i>Cavia porcellus</i>
RaC3	Rat C3	X52477	<i>Rattus norvegicus</i>
MoC3	Mouse C3	P01027	<i>Mus musculus</i>
CaC4	Bony fish (Carp) C4	BAB03284	<i>Cyprinus carpio</i>
ShC4	Shark C4	BAC82347	<i>Triakis scyllium</i>
ChC4	Chicken C4	T28153	<i>Gallus gallus</i>
XeC4	Xenopus C4	D78003	<i>Xenopus laevi</i>
MoC4	Mouse C4	P01029	<i>Mus musculus</i>
MoSPL	Mouse Sex Limited Protein	M21576	<i>Mus musculus</i>
HuC4A	Human C4A	K02403	<i>Homo sapiens</i>
HuC4B	Human C4B	U24578	<i>Homo sapiens</i>
CaC5	Bony fish (Carp) C5	BAC23058	<i>Cyprinus carpio</i>
MoC5	Mouse C5	P06684	<i>Mus musculus</i>
HuC5	Human C5	P01031	<i>Homo sapiens</i>
LiA2M	Horseshoe crab alfa2-macroglobulin	D83196	<i>Limulus polyphemus</i>

LaA2M	Lamprey alfa2-macroglobulin	D13567	<i>Entosphenus japonicu</i>
ChOvo	Chicken Ovostatin	P20740	<i>Gallus gallus</i>
RaA1I	Rat alfa1-inhibitor	P14046	<i>Rattus norvegicus</i>
HuPZP	Human Pregnancy Zone Protein	X54380	<i>Homo sapiens</i>
GpA2M	Guinea pig alfa2-macroglobulin	JC5143	<i>Cavia porcellus</i>
HuA2M	Human alfa2-macroglobulin	P01023	<i>Homo sapiens</i>
RaA2M	Rat alfa2-macroglobulin	P06238	<i>Rattus norvegicus</i>
RaA1M	Rat alfa1-macroglobulin	M77183	<i>Rattus norvegicus</i>
MoA2M	Mouse alfa2-macroglobulin	Q61838	<i>Mus musculus</i>
CiTEP	<i>Ciona</i> (Ascidian) TEP	CAD24311	<i>Ciona intestinalis</i>
OmA2M	Soft Tick alfa2-macroglobulin	AAN10129	<i>Ornithodoros moubata</i>