

Supplementary Information: The mitochondrial genomes of the mesozoans *Intoshia linei*, *Dicyema* sp., and *Dicyema japonicum*

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Supplementary Table S1: Names and Accession numbers (NCBI) of taxa used in CREx mitochondrial gene order comparison

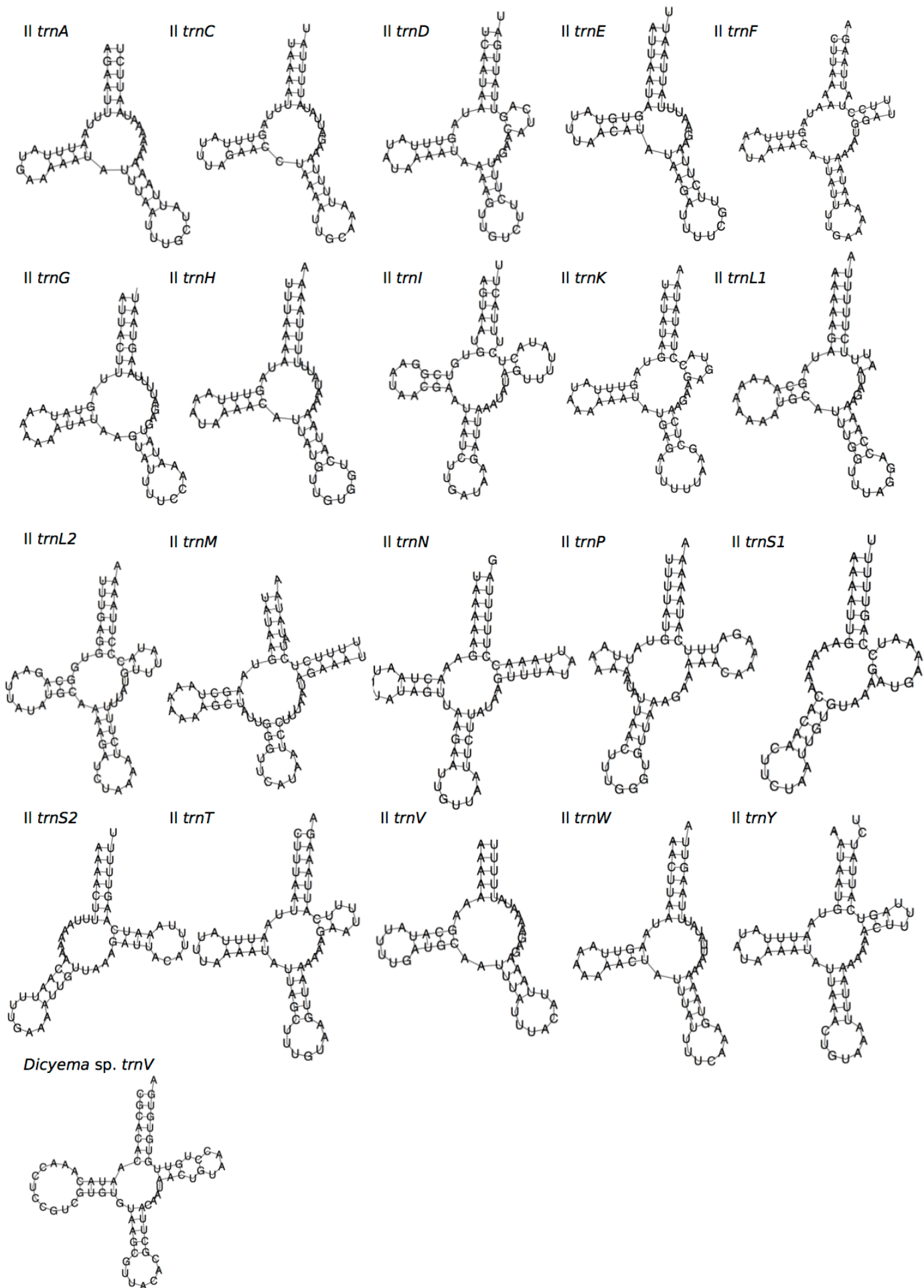
Species	Clade	Accession number
<i>Helobdella robusta</i>	Annelida, Hirudinea	AF178680
<i>Riftia pachyptila</i>	Annelida, Canalipalpata	NC026860
<i>Terebellides stroemii</i>	Annelida, Trichobranchidae	NC011014
<i>Eclysippe vanelli</i>	Annelida, Ampharetidae	EU239687
<i>Whitmania pigra</i>	Annelida, Hirudinea	NC013569
<i>Platynereis dumerilii</i>	Annelida, Polychaeta	AF178678
<i>Lumbricus terrestris</i>	Annelida, Oligochaeta	NC001673
<i>Clymenella torquata</i>	Annelida, Scolecida	NC006321
<i>Owenia fusiformis</i>	Annelida, Polychaeta	NC028712
<i>Lingula anatina</i>	Brachiopoda, Lingulida	NC036679
<i>Phoronis psammophila</i>	Phoronida	AY368231
<i>Terebratulina retusa</i>	Brachiopoda, Articulata	NC000941
<i>Laques rubellus</i>	Brachiopoda, Articulata	AB035869
<i>Terebratalia transversa</i>	Brachiopoda, Terebratulida	NC003086
<i>Myosostella myosotis</i>	Mollusca, Gastropoda	AY345053
<i>Biomphalaria glabrata</i>	Mollusca, Gastropoda	NC005439
<i>Mytilus edulis</i>	Mollusca, Bivalvia	NC006161
<i>Crassostrea ariakensis</i>	Mollusca, Bivalvia	NC012650
<i>Cephalothrix simula</i>	Nemertea, Palaeonemertea	NC012821
<i>Paranemertes</i> cf. <i>peregrina</i>	Nemertea, Hoplonemertea	GU564481
<i>Cephalothrix</i> sp.	Nemertea, Palaeonemertea	GU564482
<i>Toxocara canis</i>	Nematoda, Ascaridida	NC010690
<i>Caenorhabditis elegans</i>	Nematoda, Rhabditida	NC001328
<i>Strongylus vulgaris</i>	Nematoda, Chromadorea	NC013818
<i>Priapulius caudatus</i>	Priapulida	NC008557
<i>Alpheus distinguendus</i>	Arthropoda, Crustacea	NC014883
<i>Parhyale hawaiiensis</i>	Arthropoda, Crustacea	AY639937
<i>Bactrocera tryoni</i>	Arthropoda, Insecta	HQ130030
<i>Daphne pulex</i>	Arthropoda, Crustacea	KT003819
<i>Drosophila melanogaster</i>	Arthropoda, Insecta	KT896664
<i>Panulirus stimpsoni</i>	Arthropoda, Crustacea	NC014339
<i>Panulirus homarus</i>	Arthropoda, Crustacea	NC016015
<i>Lithobius forficatus</i>	Arthropoda, Myriapoda	NC002629
<i>Scutigera coleoptrata</i>	Arthropoda, Myriapoda	NC005870
<i>Scutigerella causeyae</i>	Arthropoda, Myriapoda	NC008453
<i>Phytoseiulus persimilis</i>	Arthropoda, Chelicerata	NC014049
<i>Tetranychus cinnabarinus</i>	Arthropoda, Chelicerata	NC014399
<i>Ixodes hexagonus</i>	Arthropoda, Chelicerata	AF081828
<i>Limulus polyphemus</i>	Arthropoda, Chelicerata	AF216203

(continued) Species	Clade	Accession Number
<i>Saccoglossus kowalevskii</i>	Hemichordata, Enteropneusta	AY336131
<i>Balanoglossus carnosus</i>	Hemichordata, Enteropneusta	AF051097
<i>Strongylocentrotus purpuratus</i>	Echinodermata, Echinoida	X12631
<i>Paracentrotus lividus</i>	Echinodermata, Camarodonta	NC001572
<i>Cucumaria miniata</i>	Echinodermata, Dendrochirotida	NC005929
<i>Ciona intestinalis</i>	Chordata, Tunicata	NC017929
<i>Amphimedon queenslandica</i>	Porifera, Haplosclerida	NC008944
<i>Mus musculus</i>	Chordata, Rodentia	KY018919
<i>Branchiostoma floridae</i>	Chordata, Branchiostomidae	AF098298

Supplementary Table S2: Names and Accession numbers (NCBI) of taxa used in *cox1* phylogenetic analysis

Species	Clade	Accession
<i>Aplysia californica</i>	Mollusca, Gastropoda	YP003687
<i>Lepidodermella squamata</i>	Platyzoa, Gastrotricha	NC026985
<i>Echinococcus multilocularis</i>	Platyhelminthes, Cyclophyllidea	AB385610
<i>Schistosoma mansoni</i>	Platyhelminthes, Diplostomida	AF216698
<i>Sepia pharaonis</i>	Mollusca, Cephalopoda	KC632521
<i>Octopus bimaculoides</i>	Mollusca, Cephalopoda	NC029723
<i>Nautilus macromphalus</i>	Mollusca, Cephalopoda	DQ472026
<i>Terebratulina retusa</i>	Brachiopoda, Terebratulida	NC000941
<i>Platynereis dumerilii</i>	Annelida, Polychaeta	AF178678
<i>Limulus polyphemus</i>	Arthropoda, Chelicerata	AF216203
<i>Priapulus caudatus</i>	Priapulida	NC008557
<i>Parhyale hawaiiensis</i>	Arthropoda, Crustacea	AY639937
<i>Trichinella spiralis</i>	Nematoda, Trichocephalida	KM357422
<i>Mytilus edulis</i>	Mollusca, Bivalvia	NC006161
<i>Dicyema papuceum</i>	Dicyemida	KF208352
<i>Dicyema koinonum</i>	Dicyemida	KF208346
<i>Dicyema multimegalum</i>	Dicyemida	KF208351
<i>Dicyema coffinense</i>	Dicyemida	KF208317
<i>Dicyema furuyi</i>	Dicyemida	KF208321
<i>Dicyema vincentense</i>	Dicyemida	KF208356
<i>Dicyema misakiense</i>	Dicyemida	AB011832

Supplementary Figure S3



Supplementary Figure S4

