

Table S2. List of chimerical Operational Taxonomic Units (OTUs)

Convoluta: ***Convoluta pulchra***, *Convoluta roscoffensis*
Hydra: ***Hydra magnipapillata***, *Hydra vulgaris*
Acropora: ***Acropora millepora***, *Acropora palmata*, *Montastraea faveolata*
Hydractinia: ***Hydractinia echinata***, *Podocoryne carnea*
Suberites: ***Suberites domuncula***, *Suberites fuscus*
Homo: ***Homo sapiens***, *Mus musculus*, *Rattus norvegicus*, *Macaca fascicularis*, *Bos taurus*, *Canis familiaris*
Eptatretus: ***Eptatretus burgeri***, *Myxine glutinosa*
Petromyzon: ***Petromyzon marinus***, *Lethenteron japonicum*, *Lethenteron reissneri*
Branchiostoma: ***Branchiostoma floridae***, *Branchiostoma belcheri*, *Branchiostoma lanceolatum*
Ciona: ***Ciona intestinalis***, *Ciona savignyi*
Strongylocentrotus: ***Strongylocentrotus purpuratus***, *Paracentrotus lividus*, *Hemicentrotus pulcherrimus*
Asterina: ***Asterina pectinifera***, *Solaster stimpsonii*
Spadella: ***Spadella cephaloptera***, *Flaccisagitta enflata*
Aplysia: ***Aplysia californica***, *Biomphalaria glabrata*, *Lymnaea stagnalis*, *Haliotis discus*
Crassostrea : ***Crassostrea virginica***, *Crassostrea gigas*, *Mytilus galloprovincialis*, *Mytilus edulis*
Argopecten: ***Argopecten irradians***, *Pecten maximus*, *Chlamys farreri*
Schmidtea: ***Schmidtea mediterranea***, *Dugesia ryukyuensis*, *Dugesia japonica*
Schistosoma: ***Schistosoma mansoni***, *Schistosoma japonicum*
Echinococcus: ***Echinococcus granulosus***, *Echinococcus multilocularis*
Helobdella: ***Helobdella robusta***, *Haementeria depressa*
Lumbricus: ***Lumbricus rubellus***, *Eisenia andrei*
Ixodes: ***Ixodes scapularis***, *Ixodes pacificus*
Daphnia: ***Daphnia pulex***, *Daphnia magna*
Hypsibius: ***Hypsibius dujardini***, *Macrobotus islandicus*, *Richtersius coronifer*
Brugia: ***Brugia malayi***, *Wuchereria bancrofti*, *Litomosoides sigmodontis*, *Dirofilaria immitis*, *Onchocerca volvulus*, *Ascaris suum*, *Toxocara canis*