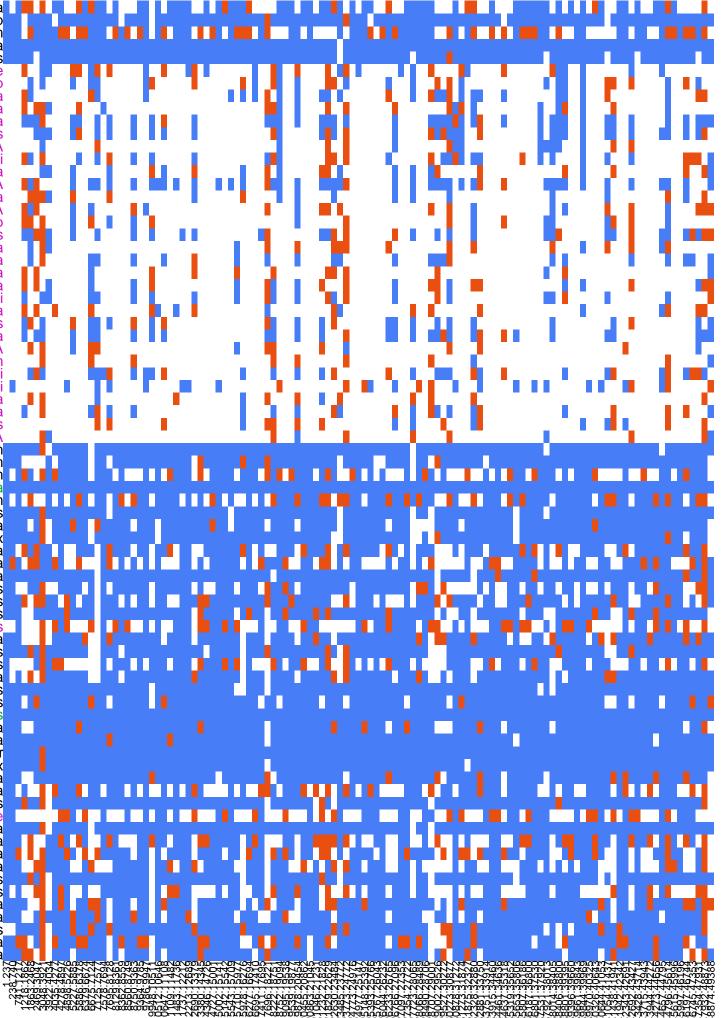
n taxa = 76Monosiga\_ovata Acanthoeca\_sp Salpingoeca\_pyxidium
Salpingoeca\_rosetta
Monosiga\_brevicolis
Euplokamis\_dunlapae
Vallicula\_sp Coeloplana\_astericola Coelopiana\_astericola Hormiphora\_palmata Hormiphora\_californica Pleurobrachia\_pileus South\_Carolina\_USA Pleurobrachia\_bachei Callianira\_Antarctica robrachia\_sp Cydippida\_sp\_Maryland\_USA Mertensiidae\_sp\_Antarctica Mertensiidae\_sp\_Washington\_USA Cydippida\_sp
Cydippida\_sp
Dryodora\_glandiformis
Beroe\_sp\_Antarctica
Beroe\_abyssicola
Beroe\_ovata Beroe\_sp\_Queensland\_Australia Beroe\_forskalii Lobatolampea\_tetragona
Ocyropsis\_sp\_Bimini\_Bahamas
Ocyropsis\_crystallina
Ocyropsis\_sp\_Florida\_USA
Bolinopsis\_infundibulum Mnemiopsis\_leidyi Bolinopsis\_ashleyi obata\_sp\_Punta\_Arenas\_Argentina Eurhamphaea\_vexilligera Cestum\_veneris
Ctenophora\_sp\_Florida\_USA
Sycon\_ciliatum Sycon\_coactum Corticium\_candelabrum Oscarella\_carmela Hyalonema\_populiferum Aphrocallistes\_vastus Rossella\_fibulata Sympagella\_nux Chondrilla\_nucula Ircinia\_fasciculata Amphimedon\_queenslandica Petrosia\_ficiformis Spongilla\_lacustris Cliona\_varians sorites\_suberitoides Mycale\_phylophylla Latrunculia\_apicalis Crella\_elegans **Pseudospongosorites** Kirkpatrickia\_variolosa
Trichoplax\_adhaerens
Strongylocentrotus\_purpatus
Homo\_sapiens
Hemithris\_psittacea
Capitella\_teleta

Hydra\_vulgaris
Hydra\_oligactis
Hydra\_oligactis
Physalia\_physalia
Nanomia\_bijuga
Agalma\_elegans
Craseo\_lathetica
Abylopsis\_tetragona

- □ Absent
- Incomplete
- Present



Gene partitions (n = 117)