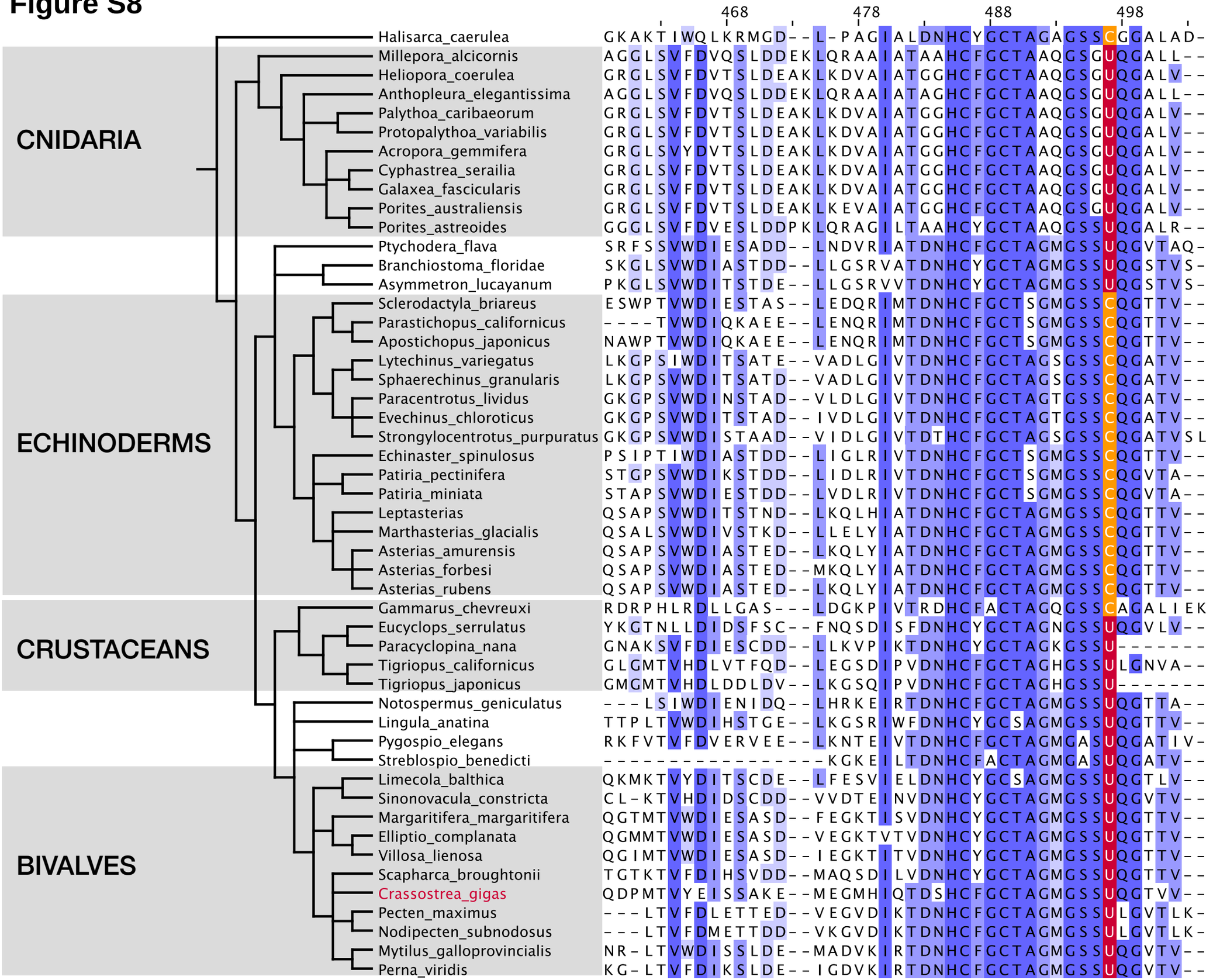
Figure S8


468
478
488
498
CNIDARIA
ECHINODERMS
CRUSTACEANS
BIVALVES
Halisarca_caerulea GKAKTIWQLKRMGD--L-PAGIALDNHCYGCTAGAGSSCGGALAD-
Millepora_alcicornis AGGLSVFDVQSLDDEKLQRAAIATAAHCFGCTAAQGSGUQGALL--
Heliopora_coerulea GRGLSVFDVTSLDEAKLKDVAIATGGHCFGCTAAQGSGUQGALV--
Anthopleura_elegantissima AGGLSVFDVQSLDDEKLQRAAIATAGHCFGCTAAQGSGUQGALL--
Palythoa_caribaeorum GRGLSVFDVTSLDEAKLKDVAIATGGHCFGCTAAQGSGUQGALV--
Protopalythoa_variabilis GRGLSVFDVTSLDEAKLKDVAIATGGHCFGCTAAQGSGUQGALV--
Acropora_gemmifera GRGLSVYDVTSLDEAKLKDVAIATGGHCFGCTAAQGSGUQGALV--
Cyphastrea_serailia GRGLSVFDVTSLDEAKLKDVAIATGGHCFGCTAAQGSGUQGALV--
Galaxea_fascicularis GRGLSVFDVTSLDEAKLKDVAIATGGHCFGCTAAQGSGUQGALV--
Porites_australiensis GRGLSVFDVTSLDEAKLKEVAIATGGHCFGCTAAQGSGUQGALV--
Porites_astreoides GGGLSVFDVESLDDPKLQRAGILTAAHCYGCTAAQGSSUQGALR--
Ptychodera_flava SRFSSVWDIESADD--LNDVRIATDNHCFGCTAGMGSSUQGVTAQ-
Branchiostoma_floridae SKGLSVWDIASTDD--LLGSRVATDNHCYGCTAGMGSSUQGSTVS-
Asymmetron_lucayanum PKGLSVWDITSTDE--LLGSRVVTDNHCYGCTAGMGSSUQGSTVS-
Sclerodactyla_briareus ESWPTVWDIESTAS--LEDQRIMTDNHCFGCTSGMGSSCQGTTV--
Parastichopus_californicus ----TVWDIQKAEE--LENQRIMTDNHCFGCTSGMGSSCQGTTV--
Apostichopus_japonicus NAWPTVWDIQKAEE--LENQRIMTDNHCFGCTSGMGSSCQGTTV--
Lytechinus_variegatus LKGPSIWDITSATE--VADLGIVTDNHCFGCTAGSGSSCQGATV--
Sphaerechinus_granularis LKGPSVWDITSATD--VADLGIVTDNHCFGCTAGSGSSCQGATV--
Paracentrotus_lividus GKGPSVWDINSTAD--VLDLGIVTDNHCFGCTAGTGSSCQGATV--
Evechinus_chloroticus GKGPSVWDITSTAD--IVDLGIVTDNHCFGCTAGTGSSCQGATV--
Strongylocentrotus_purpuratus GKGPSVWDISTAAD--VIDLGIVTDTHCFGCTAGSGSSCQGATVSL
Echinaster_spinulosus PSIPTIWDIASTDD--LIGLRIVTDNHCFGCTSGMGSSCQGTTV--
Patiria_pectinifera STGPSVWDIKSTDD--LIDLRIVTDNHCFGCTSGMGSSCQGVTA--
Patiria_miniata STAPSVWDIESTDD--LVDLRIVTDNHCFGCTSGMGSSCQGVTA--
Leptasterias QSAPSVWDITSTND--LKQLHIATDNHCFGCTAGMGSSCQGTTV--
Marthasterias_glacialis QSALSVWDIVSTKD--LLELYIATDNHCFGCTAGMGSSCQGTTV--
Asterias_amurensis QSAPSVWDIASTED--LKQLYIATDNHCFGCTAGMGSSCQGTTV--
Asterias_forbesi QSAPSVWDIASTED--MKQLYIATDNHCFGCTAGMGSSCQGTTV--
Asterias_rubens QSAPSVWDIASTED--LKQLYIATDNHCFGCTAGMGSSCQGTTV--
Gammarus_chevreuxi RDRPHLRDLLGAS---LDGKPIVTRDHCFACTAGQGSSCAGALIEK
Eucyclops_serrulatus YKGTNLLDIDSFSC--FNQSDISFDNHCYGCTAGNGSSUQGVLV--
Paracyclopina_nana GNAKSVFDIESCDD--LLKVPIKTDNHCYGCTAGKGSSU------
Tigriopus_californicus GLGMTVHDLVTFQD--LEGSDIPVDNHCFGCTAGHGSSULGNVA--
Tigriopus_japonicus GMGMTVHDLDDLDV--LKGSQIPVDNHCFGCTAGHGSSU------
Notospermus_geniculatus ---LSIWDIENIDQ--LHRKEIRTDNHCFGCTAGMGSSUQGTTA--
Lingula_anatina TTPLTVWDIHSTGE--LKGSRIWFDNHCYGCSAGMGSSUQGTTV--
Pygospio_elegans RKFVTVFDVERVEE--LKNTEIVTDNHCFGCTAGMGASUQGATIV-
Streblospio_benedicti ----------KGKEILTDNHCFACTAGMGASUQGATV--
Limecola_balthica QKMKTVYDITSCDE--LFESVIELDNHCYGCSAGMGSSUQGTLV--
Sinonovacula_constricta CL-KTVHDIDSCDD--VVDTEINVDNHCYGCTAGMGSSUQGVTV--
Margaritifera_margaritifera QGTMTVWDIESASD--FEGKTISVDNHCYGCTAGMGSSUQGTTV--
Elliptio_complanata QGMMTVWDIESASD--VEGKTVTVDNHCYGCTAGMGSSUQGTTV--
Villosa_lienosa QGIMTVWDIESASD--IEGKTITVDNHCYGCTAGMGSSUQGTTV--
Scapharca_broughtonii TGTKTVFDIHSVDD--MAQSDILVDNHCYGCTAGMGSSUQGTTV--
Crassostrea_gigas QDPMTVYEISSAKE--MEGMHIQTDSHCFGCTAGMGSSUQGTVV--
Pecten_maximus ---LTVFDLETTED--VEGVDIKTDNHCFGCTAGMGSSULGVTLK-
Nodipecten_subnodosus ---LTVFDMETTDD--VKGVDIKTDNHCFGCTAGMGSSULGVTLK-
Mytilus_galloprovincialis NR-LTVWDISSLDE--MADVKIRTDNHCFGCTAGMGSSUQGVTV--
Perna_viridis KG-LTVFDIKSLDE--IGDVKIRTDNHCFGCTAGMGSSUQGVTV--