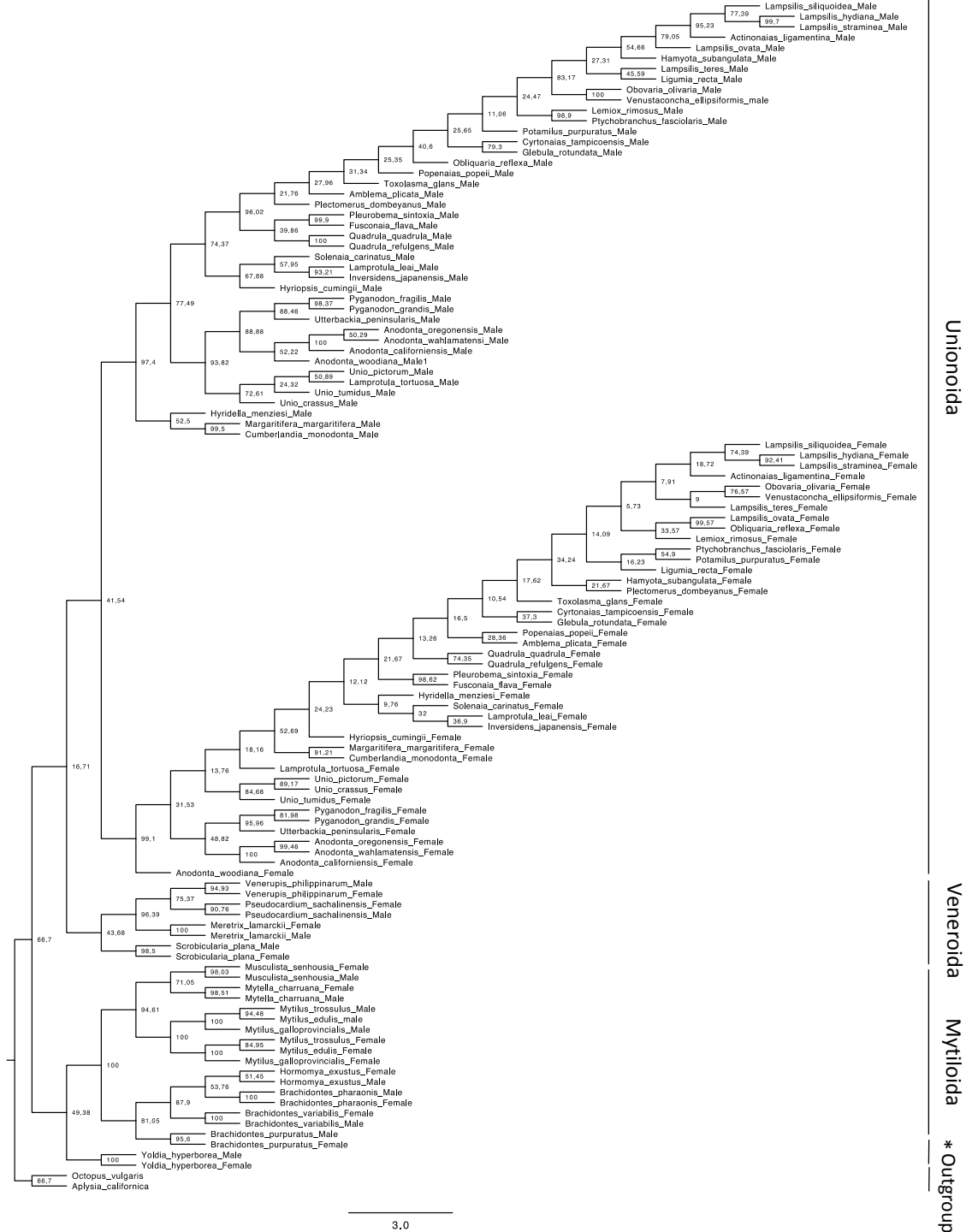
Lampsilis_siliquoidea_Male
Lampsilis_hydiana_Male
Lampsilis_straminea_Male
Actinonaias_ligamentina_Male
Lampsilis_ovata_Male
Hamyota_subangulata_Male
Lampsilis_teres_Male
Ligumia_recta_Male
Obovaria_olivaria_Male
Venustaconcha_ellipsiformis_male
Lemiox_rimosus_Male
Ptychobranchus_fasciolaris_Male
Potamilus_purpuratus_Male
Cyrtonaias_tampicoensis_Male
Glebula_rotundata_Male
Obliquaria_reflexa_Male
Popenaias_popeii_Male
Toxolasma_glans_Male
Amblema_plicata_Male
Plectomerus_dombeyanus_Male
Pleurobema_sintoxia_Male
Fusconaia_flava_Male
Quadrula_quadrula_Male
Quadrula_refulgens_Male
Solenaia_carinatus_Male
Lamprotula_leai_Male
Inversidens_japanensis_Male
Hyriopsis_cumingii_Male
Pyganodon_fragilis_Male
Pyganodon_grandis_Male
Utterbackia_peninsularis_Male
Anodonta_oregonensis_Male
Anodonta_wahlamatensi_Male
Anodonta_californiensis_Male
Anodonta_woodiana_Male1
Unio_pictorum_Male
Lamprotula_tortuosa_Male
Unio_tumidus_Male
Unio_crassus_Male
Hyridella_menziesi_Male
Margaritifera_margaritifera_Male
Cumberlandia_monodonta_Male
Lampsilis_siliquoidea_Female
Lampsilis_hydiana_Female
Lampsilis_straminea_Female
Actinonaias_ligamentina_Female
Obovaria_olivaria_Female
Venustaconcha_ellipsiformis_Female
Lampsilis_teres_Female
Lampsilis_ovata_Female
Obliquaria_reflexa_Female
Lemiox_rimosus_Female
Ptychobranchus_fasciolaris_Female
Potamilus_purpuratus_Female
Ligumia_recta_Female
Hamyota_subangulata_Female
Plectomerus_dombeyanus_Female
Toxolasma_glans_Female
Cyrtonaias_tampicoensis_Female
Glebula_rotundata_Female
Popenaias_popeii_Female
Amblema_plicata_Female
Quadrula_quadrula_Female
Quadrula_refulgens_Female
Pleurobema_sintoxia_Female
Fusconaia_flava_Female
Hyridella_menziesi_Female
Solenaia_carinatus_Female
Lamprotula_leai_Female
Inversidens_japanensis_Female
Hyriopsis_cumingii_Female
Margaritifera_margaritifera_Female
Cumberlandia_monodonta_Female
Lamprotula_tortuosa_Female
Unio_pictorum_Female
Unio_crassus_Female
Unio_tumidus_Female
Pyganodon_fragilis_Female
Pyganodon_grandis_Female
Utterbackia_peninsularis_Female
Anodonta_oregonensis_Female
Anodonta_wahlamatensis_Female
Anodonta_californiensis_Female
Anodonta_woodiana_Female
Venerupis_philippinarum_Male
Venerupis_philippinarum_Female
Pseudocardium_sachalinensis_Female
Pseudocardium_sachalinensis_Male
Meretrix_lamarckii_Female
Meretrix_lamarckii_Male
Scrobicularia_plana_Male
Scrobicularia_plana_Female
Musculista_senhousia_Female
Musculista_senhousia_Male
Mytella_charruana_Female
Mytella_charruana_Male
Mytilus_trossulus_Male
Mytilus_edulis_male
Mytilus_galloprovincialis_Male
Mytilus_trossulus_Female
Mytilus_edulis_Female
Mytilus_galloprovincialis_Female
Hormomya_exustus_Female
Hormomya_exustus_Male
Brachidontes_pharaonis_Male
Brachidontes_pharaonis_Female
Brachidontes_variabilis_Female
Brachidontes_variabilis_Male
Brachidontes_purpuratus_Male
Brachidontes_purpuratus_Female
Yoldia_hyperborea_Male
Yoldia_hyperborea_Female
Octopus_vulgaris
Aplysia_californica
3.0
Unionoida
Veneroida
Mytiloida
* Outgroup