

## File S2. Character state

0 - 51

	0	5	10	15	20	25	30	35	40	45	50
Pasiphaea sivado	0	0	0	0	0	0	0	0	0	0	0
Alvinocaris longirostris	0	0	0	0	0	0	0	0	0	0	0
Janicella spinicauda	0	0	0	0	0	0	0	0	0	0	0
Oplophorus gracilirostris	0	0	0	0	0	0	0	0	0	0	0
Systellaspis pellucida	0	0	0	0	0	0	0	0	0	0	0
Hymenodora acanthitelsonis	0	1	0	1	0	0	0	0	0	0	0
Sclerodora crosnieri	0	1	0	0	0	0	0	0	0	0	0
Hymenodora glacialis	0	1	0	0	0	0	0	0	0	0	0
Hymenodora gracilis	0	1	0	0	0	0	0	0	0	0	0
Hymenodora frontalis	0	1	0	0	0	0	0	0	0	0	0
Acanthephyra quadrispinosa	0	0	0	0	0	0	0	0	0	0	0
Ephyrina ombango	1	0	0	0	0	0	0	0	0	0	0
Heterogenys microphthalma	0	0	0	0	0	0	0	0	0	0	0
Kemphyra corallina	0	0	0	0	0	0	0	0	0	0	0
Meningodora longisulca	0	0	0	0	0	0	0	0	0	0	0
Notostomus elegans	0	0	0	0	0	0	0	0	0	0	0

Characters 52 - 80

	52	57	62	67	72	77
Pasiphaea sivado	0	0	0	0	0	0
Bresilia saldanhai	0	0	0	0	0	0
Janicella spinicauda	0	0	0	0	0	0
Oplophorus gracilirostris	0	0	0	0	0	0
Systellaspis pellucida	0	0	0	0	0	0
Hymenodora acanthitelsonis	0	0	0	0	0	0
Sclerodora crosnieri	0	0	0	0	0	0
Hymenodora glacialis	0	0	0	0	0	0
Hymenodora gracilis	0	0	0	0	0	0
Hymenodora frontalis	0	0	0	0	0	0
Acanthephyra quadrispinosa	1	1	0	0	0	0
Ephyrina ombango	1	1	0	0	0	0
Heterogenys microphthalma	1	1	0	0	0	0
Kemphyra corallina	1	1	0	0	0	0
Meningodora longisulca	1	1	0	0	0	0
Notostomus elegans	1	1	0	0	0	0