

Supplementary Table S3 List of taxa used in the phylogenetic analysis with associated habitat types, native distribution ranges, and GenBank accession numbers. Sequences generated during this study are marked with an asterisk (*)

Species	Native distribution	Habitat	Genbank accession		
			COI	16S rRNA	28S rRNA
Family Cyrenidae Gray, 1840					
<i>Corbicula sandai</i> Reinhardt, 1878	Japan: Lake Biwa	Freshwater	AB845590	NC_061685	AB661660
<i>Corbicula leana</i> Prime, 1864	East and Southeast Asia	Freshwater	PZ097216*	PZ111378*	PZ097210*
<i>Corbicula elatior</i> von Martens, 1905	East Asia	Freshwater	MZ425203	n/a	MZ427282
<i>Corbicula fluminalis</i> (Müller, 1774)	Central, West and Southeast Asia	Freshwater	KX192335	KX192355	KX347246
<i>Corbicula lamarckiana</i> Prime, 1864	Southeast Asia	Freshwater	PV023631	n/a	PV036601
<i>Corbicula australis</i> (Deshayes, 1830)	Australia	Freshwater	AF196274	AF152023	KM598278
<i>Corbicula subnitens</i> Clessin, 1887	South Asia	Freshwater	PV023697	n/a	PV036606
<i>Corbicula africana</i> (Krauss, 1848)	Africa	Freshwater	OM912289	n/a	OM905159
<i>Corbicula blandiana</i> Prime, 1864	Southeast Asia	Freshwater	PV023773	n/a	PV036608
<i>Corbicula tobae</i> von Martens, 1900	Southeast Asia	Freshwater	MN746819	n/a	MN795583
<i>Corbicula largillierii</i> (Philippi, 1844)	East and Southeast Asia	Freshwater	OM912069	n/a	OM905254
<i>Corbicula fluminea</i> (Müller, 1774)	East and Southeast Asia	Freshwater	PZ097215*	PZ111377*	PZ097209*
<i>Corbicula madagascariensis</i> Smith, 1882	Madagascar	Freshwater	OM912260	AF152022	KM598271
<i>Corbicula japonica</i> Prime, 1864	Japan: Osaka	Brackish	PZ097217*	PZ111379*	PZ097211*
<i>Sphaerocorbicula bilini</i> (Bespalaya et al. 2025)	Southeast Asia	Freshwater	PV023645	n/a	PV036602
<i>Sphaerocorbicula avana</i> (Theobald, 1874)	Southeast Asia	Freshwater	PV023746	n/a	PV036607
<i>Sphaerocorbicula lemroae</i> (Bespalaya et al. 2025)	Southeast Asia	Freshwater	PV023628	n/a	PV036600
<i>Fasciocorbicula regia</i> (Clessin, 1879)	Southeast Asia	Freshwater	PZ097218*	PZ111380*	PZ097212*
<i>Batissa violacea</i> (Lamarck, 1818)	South and Southeast Asia	Freshwater/Brackish	DQ837726	KU318348	n/a
<i>Villorita cyprinoides</i> (Gray, 1825)	South Asia	Brackish	JQ773442	KF638716	n/a
Family Glauconomidae Gray, 1853					
<i>Glauconome virens</i> (Linnaeus, 1767)	East and Southeast Asia	Brackish	OQ569915	OQ570957	OQ608006
<i>Glauconome chinensis</i> Gray, 1828	East and Southeast Asia	Brackish	DQ184851	DQ184753	DQ184798
<i>Glauconome rugosa</i> Hanley, 1843	Southeast Asia	Brackish	KC429140	KC429302	KC429500
Family Cyrenoididae H. Adams & A. Adams, 1857					
<i>Geloina expansa</i> (Mousson, 1849)	South and Southeast Asia/Australia	Brackish	PZ097232*	PZ111381*	PZ097213*
<i>Geloina bengalensis</i> (Lamarck, 1818)	East, South and Southeast Asia	Brackish	PZ097233*	PZ111382*	PZ097214*
<i>Polymesoda caroliniana</i> (Bosc, 1801)	North America	Brackish	AF196276	KX713250	KX713425
<i>Cyanocyclus limosa</i> (Maton, 1811)	South America	Freshwater	AF196277	AF152025	AF131012