Table S1. Mitogenome sequences obtained from GenBank for gene arrangement analyses.

Species	Number	Class	Family	Length	Reference
Acasta cyathus	MN615272	Balanomorpha	Balanidae	15,251	Unpublished
Acasta sulcata	NC_029168.1	Balanomorpha	Balanidae	15,326	Unpublished.
*Altiverruca navicular** (outgroup)	NC_037244.1	Verrucomorpha	Verrucidae	15,976	[57]
Amphibalanus amphitrite	NC_024525.1	Balanomorpha	Balanidae	15,683	[46]
Armatobalanus allium	NC_029167.1	Balanomorpha	Balanidae	15,063	Unpublished
Balanus balanus	NC_026466.1	Balanomorpha	Balanidae	15,955	[15]
Balanus trigonus	NC_056392	Balanomorpha	Balanidae	15,336	Unpublished
Catomerus polymerus	MH791045.1	Balanomorpha	Catophragmidae	15,446	[22]
Chelonibia testudinaria	NC_029169.1	Balanomorpha	Chelonibiidae	14,906	Unpublished
Chthamalus antennatus	NC_026730.1	Balanomorpha	Chthamalidae	15,165	Unpublished
Chthamalus challengeri	NC_043920.1	Balanomorpha	Chthamalidae	15,358	[17]
Chthamalus malayensis	NC_056950	Balanomorpha	Chthamalidae	15,230	Unpublished
*Eochionelasmus coreana**	MT491209.1	Balanomorpha	Chionelasmatidae	17,035	[21]
*Eochionelasmus ohtai**	NC_036957.1	Balanomorpha	Chionelasmatidae	15,585	[52]
Epopella plicata	NC_033393.1	Balanomorpha	Austrobalanidae	15,296	Unpublished
Fistulobalanus albicostatus	NC_053649	Balanomorpha	Balanidae	15,665	[20]
Megabalanus ajax	NC_024636.1	Balanomorpha	Balanidae	15,510	[59]
Megabalanus tintinnabulum	NC_056162	Balanomorpha	Balanidae	15,107	[50]
Megabalanus volcano	NC_006293.1	Balanomorpha	Balanidae	15,107	Unpublished
Nobia grandis	NC_023945.1	Balanomorpha	Pyrgomatidae	15,032	[59]
Notochthamalus scabrosus	NC_022716.1	Balanomorpha	Chthamalidae	15,397	[50]
Octomeris sp. BKKC-2014	KJ754820.1	Balanomorpha	Chthamalidae	15,484	Unpublished
Pyrgopsella youngi	MN615,273	Balanomorpha	Pyrgomatidae	15,129	Unpublished

Savignium sp. BKKC-2014	KJ754821.1	Balanomorpha	Pyrgomatidae	14,999	Unpublished
Semibalanus balanoides	NC_039849.1	Balanomorpha	Balanidae	15,119	[13]
Semibalanus cariosus	NC_050836.1	Balanomorpha	Balanidae	15,118	[23]
Striatobalanus amaryllis	NC_024526.1	Balanomorpha	Balanidae	15,064	[19]
Tesseropora rosea	NC_037241.1	Balanomorpha	Tetraclitidae	15,330	[48]
Tetraclita japonica	NC_008974.1	Balanomorpha	Tetraclitidae	15,194	Unpublished
Tetraclita kuroshioensis	NC_056911.1	Balanomorpha	Tetraclitidae	15,175	[47]
Tetraclita rufotincta	NC_037398.1	Balanomorpha	Tetraclitidae	15,002	[49]
Tetraclita serrata	NC_02915,4.1	Balanomorpha	Tetraclitidae	15,200	[16]
Tetraclita squamosa squamosa	MT232759.1	Balanomorpha	Tetraclitidae	15,191	[38]
Tetraclitella divisa	NC_029170.1	Balanomorpha	Tetraclitidae	14,973	Unpublished
Megabalanus coccopoma	OK631889	Balanomorpha	Balanidae	15,098	This study

Note: * indicates deep-sea species

Table S2. Mitogenome sequences obtained from GenBank for phylogenetic analyses.

Species	Number	Class	Family	Length	Reference
Acasta cyathus	MN615,272	Balanomorpha	Balanidae	15,251	Unpublished
Acasta sulcata	NC_029168.1	Balanomorpha	Balanidae	15,326	Unpublished
*Altiverruca navicular**	NC_037244.1	Verrucomorpha	Verrucidae	15,976	[57]
Amphibalanus amphitrite	NC_024525.1	Balanomorpha	Balanidae	15,683	[46]
Arcoscalpellum epeeum	MH791047	Scalpellomorpha	Scalpellidae	15,593	[56]
Armatobalanus allium	NC_029167.1	Balanomorpha	Balanidae	15,063	Unpublished
Balanus balanus	NC_026466.1	Balanomorpha	Balanidae	15,955	[43]
Balanus trigonus	NC_056392	Balanomorpha	Balanidae	15,336	Unpublished
Capitulum mitella	NC_008742.1	Pollicipedomorpha	Pollicipedidae	14,915,	[53]
Catomerus polymerus	MH791045.1	Balanomorpha	Catophragmidae	15,446	[22]
Chelonibia testudinaria	NC_029169.1	Balanomorpha	Chelonibiidae	14,906	Unpublished
Chthamalus antennatus	NC_026730.1	Balanomorpha	Chthamalidae	15,165	Unpublished
Chthamalus challengeri	NC_043920.1	Balanomorpha	Chthamalidae	15,358	[17]
Chthamalus malayensis	NC_056950	Balanomorpha	Chthamalidae	15,230	Unpublished
*Eochionelasmus coreana**	MT491209.1	Balanomorpha	Chionelasmatidae	17,035	[21]
*Eochionelasmus ohtai**	NC_036957.1	Balanomorpha	Chionelasmatidae	15,585	[52]
Epopella plicata	NC_033393.1	Balanomorpha	Austrobalanidae	15,296	Unpublished
Fistulobalanus albicostatus	NC_053649	Balanomorpha	Balanidae	15,665	[20]
Glyptelasma annandalei	NC_043898.1	Scalpellomorpha	Poecilasmatidae	16,107	[39]
Lepas australis	NC_025295.1	Scalpellomorpha	Lepadidae	15,502	[7]
Lepas anserifera	NC_026576.1	Scalpellomorpha	Lepadidae	15,657	Unpublished
Lepas anatifera	NC-062431.1	Scalpellomorpha	Lepadidae	15,708	Unpublished
Megabalanus ajax	NC_024636.1	Balanomorpha	Balanidae	15,510	[59]
Megabalanus tintinnabulum	NC_056162	Balanomorpha	Balanidae	15,107	[44]

Megabalanus volcano	NC_006293.1	Balanomorpha	Balanidae	15,107	Unpublished
Nobia grandis	NC_023945.1	Balanomorpha	Pyrgomatidae	15,032	[59]c
Notochthamalus scabrosus	NC_022716.1	Balanomorpha	Chthamalidae	15,397	[50]
Octomeris sp. BKKC-2014	KJ754820.1	Balanomorpha	Chthamalidae	15,484	Unpublished
Polyascus gregaria (outgroup)	JN616263.1	Rhizocephala	Polyascidae	15,465	[37]
Pollicipes polymerus	NC_005936.1	Pollicipedomorpha	Pollicipedidae	15,634	[54]
Pyrgopsella youngi	MN615,273	Balanomorpha	Pyrgomatidae	15,129	Unpublished
Savignium sp. BKKC-2014	KJ754821.1	Balanomorpha	Pyrgomatidae	14,999	Unpublished
Semibalanus balanoides	NC_039849.1	Balanomorpha	Balanidae	15,119	[13]
Semibalanus cariosus	NC_050836.1	Balanomorpha	Balanidae	15,118	[23]
Striatobalanus amaryllis	NC_024526.1	Balanomorpha	Balanidae	15,064	[19]
Sacculina sp. (outgroup	MZ4115,48.1	Rhizocephala	Sacculinidae	14,579	Unpublished
Tesseropora rosea	NC_037241.1	Balanomorpha	Tetraclitidae	15,330	[48]
Tetraclita japonica	NC_008974.1	Balanomorpha	Tetraclitidae	15,194	Unpublished
Tetraclita kuroshioensis	NC_056911.1	Balanomorpha	Tetraclitidae	15,175	[47]
Tetraclita rufotincta	NC_037398.1	Balanomorpha	Tetraclitidae	15,002	[49]
Tetraclita serrata	NC_02915,4.1	Balanomorpha	Tetraclitidae	15,200	[16]
Tetraclita squamosa squamosa	MT232759.1	Balanomorpha	Tetraclitidae	15,191	[38]
Tetraclitella divisa	NC_029170.1	Balanomorpha	Tetraclitidae	14,973	Unpublished
*Vulcanolepas fijiensis**	NC_045306.1	Scalpellomorpha	Neolepadidae	17,374	[55]
Megabalanus coccopoma	OK631889	Balanomorpha	Balanidae	15,098	This study

Note: * indicates deep-sea species

Table S3. Condon usage in *M. coccopoma*.

Condon	Number	Percent	Condon	Number	Percent	Condon	Number	Percent	Condon	Number	Percent
UUU-F	259	7.05	UCU-S	118	3.21	UAU-Y	92	2.50	UGU-C	32	0.87
UUC-F	108	2.94	UCC-S	37	1.01	UAC-Y	52	1.41	UGC-C	7	0.19
UUA-L	240	6.53	UCA-S	71	1.93	UAA-*	8	0.22	UGA-W	85	2.31

UUG-L	24	0.65	UCG-S	15	0.41	UAG-*	5	0.14	UGG-W	20	0.54
CUU-L	117	3.18	CCU-P	68	1.85	CAU-H	46	1.25	CGU-R	19	0.52
CUC-L	46	1.25	CCC-P	28	0.76	CAC-H	32	0.87	CGC-R	4	0.11
CUA-L	98	2.67	CCA-P	37	1.01	CAA-Q	53	1.44	CGA-R	31	0.84
CUG-L	19	0.52	CCG-P	10	0.27	CAG-Q	10	0.27	CGG-R	6	0.16
AUU-I	257	6.99	ACU-T	72	1.96	AAU-N	88	2.39	AGU-S	33	0.90
AUC-I	60	1.63	ACC-T	30	0.82	AAC-N	44	1.20	AGC-S	10	0.27
AUA-M	159	4.33	ACA-T	80	2.18	AAA-K	81	2.20	AGA-S	70	1.90
AUG-M	40	1.09	ACG-T	11	0.30	AAG-K	16	0.44	AGG-S	5	0.14
GUU-V	88	2.39	GCU-A	98	2.67	GAU-D	57	1.55	GGU-G	67	1.82
GUC-V	24	0.65	GCC-A	46	1.25	GAC-D	20	0.54	GGC-G	8	0.22
GUA-V	92	2.50	GCA-A	56	1.52	GAA-E	74	2.01	GGA-G	119	3.24
GUG-V	20	0.54	GCG-A	6	0.16	GAG-E	15	0.41	GGG-G	33	0.90