

1 **Alves-de-Souza C. et al.**  
 2 **Supplementary informations**

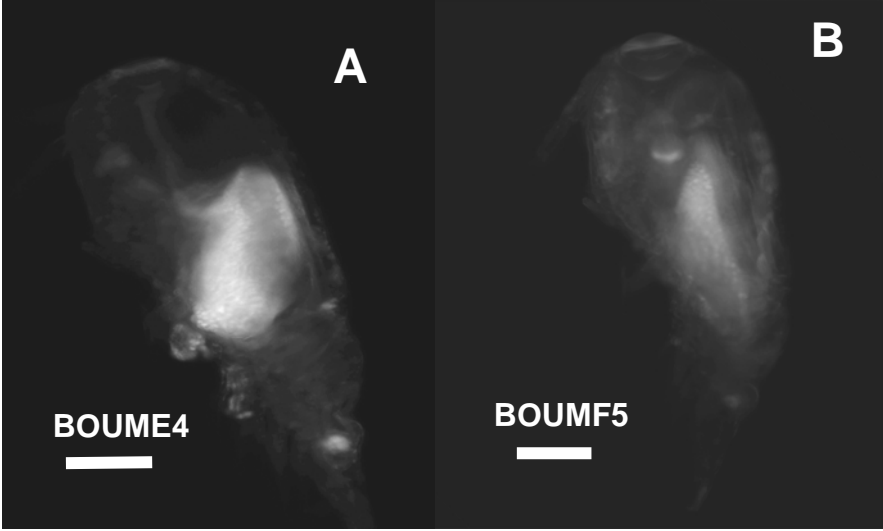
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 4 **Table S1.** Complete list of sequences used in Figure 5.  
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ID	Kingdom	SuperGroup	Division	Class	Genus	Species
AY664985	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
DQ317536	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	contortum
AY664986	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
AY664984	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
FJ228702	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	crassum
DQ317537	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	contortum
FJ228701	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	contortum
FJ541187	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	galatheanum
DQ317538	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	navicula
FJ541188	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	galatheanum
HQ226070, AS16	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	spinulosum
HQ226071, BCL04	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	spinulosum
HQ226069, GA89A	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	inornatum
HQ226072, BSP02	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	spinulosum
BOUMD9	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUME4	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUM19	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	mangini
BOUM26	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	mangini
BOUM29	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUM3	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUM35	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	spinulosum
BOUM4	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	cf. mangini
BOUM50	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	contortum
BOUM7	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUMB12	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUM21	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUM27	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUME4	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
BOUMF5	Eukaryota	Alveolata	Alveolata	Dinophyceae	Blastodinium	sp.
AY664982	Eukaryota	Chromalveolata	Alveolata	Dinophyceae		
AF274249	Eukaryota	Alveolata	Alveolata	Dinophyceae	Adenoides	eludens
U41085	Eukaryota	Alveolata	Alveolata	Dinophyceae	Akashiwo	sanguinea
AY421770	Eukaryota	Alveolata	Alveolata	Dinophyceae	Akashiwo	sanguinea
AY883006	Eukaryota	Alveolata	Alveolata	Dinophyceae	Alexandrium	minutum
AB212091	Eukaryota	Alveolata	Alveolata	Dinophyceae	Amphidiniella	sedentaria
AF274254	Eukaryota	Alveolata	Alveolata	Dinophyceae	Amphidinium	longum
AJ415512	Eukaryota	Alveolata	Alveolata	Dinophyceae	Amphidinium	carterae
AB375869	Eukaryota	Alveolata	Alveolata	Dinophyceae	Amylax	triacantha
EU293235	Eukaryota	Alveolata	Alveolata	Dinophyceae	Apicoporus	glaber
AF033865	Eukaryota	Alveolata	Alveolata	Dinophyceae	Cachonina	hallii
AY443014	Eukaryota	Alveolata	Alveolata	Dinophyceae	Ceratium	hirundinella
EF492487	Eukaryota	Alveolata	Alveolata	Dinophyceae	Coolia	monotis
AJ506973	Eukaryota	Alveolata	Alveolata	Dinophyceae	Dinophysis	acuta

AF231803	Eukaryota	Alveolata	Alveolata	Dinophyceae	Durinskia	baltica
DQ388460	Eukaryota	Alveolata	Alveolata	Dinophyceae	Exuviaella	cassubica
AF033869	Eukaryota	Alveolata	Alveolata	Dinophyceae	Fragilidium	subglobosum
AB195668	Eukaryota	Alveolata	Alveolata	Dinophyceae	Galeidinium	rugatum
AF274257	Eukaryota	Alveolata	Alveolata	Dinophyceae	Glenodiniopsis	steinii
AF022194	Eukaryota	Alveolata	Alveolata	Dinophyceae	Gymnodinium	fuscum
U41087	Eukaryota	Alveolata	Alveolata	Dinophyceae	Gymnodinium	beii
AB120002	Eukaryota	Alveolata	Alveolata	Dinophyceae	Gyrodinium	fusiforme
AF022197	Eukaryota	Alveolata	Alveolata	Dinophyceae	Gyrodinium	impudicum
AB036837	Eukaryota	Alveolata	Alveolata	Dinophyceae	Halostyloidinium	arenarium
AY443016	Eukaryota	Alveolata	Alveolata	Dinophyceae	Hemidinium	nasutum
AB183670	Eukaryota	Alveolata	Alveolata	Dinophyceae	Heterocapsa	triquetra
AF352822	Eukaryota	Alveolata	Alveolata	Dinophyceae	Karenia	brevis
AF022195	Eukaryota	Alveolata	Alveolata	Dinophyceae	Karenia	mikimotoi
EF492490	Eukaryota	Alveolata	Alveolata	Dinophyceae	Karlodinium	micrum
DQ388464	Eukaryota	Alveolata	Alveolata	Dinophyceae	Katodinium	rotundatum
AF231804	Eukaryota	Alveolata	Alveolata	Dinophyceae	Kryptoperidinium	foliaceum
AF022199	Eukaryota	Alveolata	Alveolata	Dinophyceae	Lepidodinium	viride
AF521100	Eukaryota	Alveolata	Alveolata	Dinophyceae	Lessardia	elongata
AF274269	Eukaryota	Alveolata	Alveolata	Dinophyceae	Lingulodinium	polyedrum
AY590477	Eukaryota	Alveolata	Alveolata	Dinophyceae	Luciella	sp.
AB273724	Eukaryota	Alveolata	Alveolata	Dinophyceae	Oblea	torta
AF022201	Eukaryota	Alveolata	Alveolata	Dinophyceae	Pentapharsodinium	tyrrhenicum
AB185114	Eukaryota	Alveolata	Alveolata	Dinophyceae	Peridinium	cinctum
AY970653	Eukaryota	Alveolata	Alveolata	Dinophyceae	Peridinium	aciculiferum
AY121846	Eukaryota	Alveolata	Alveolata	Dinophyceae	Pfiesteria	Piscicida
EU780657	Eukaryota	Alveolata	Alveolata	Dinophyceae	Phalacroma	cf. rotundatum
AY421789	Eukaryota	Alveolata	Alveolata	Dinophyceae	Pheopolykrikos	hartmannii
AB211357	Eukaryota	Alveolata	Alveolata	Dinophyceae	Pileidinium	ciceropse
EF016919	Eukaryota	Alveolata	Alveolata	Dinophyceae	Piscinodinium	sp.
AF099183	Eukaryota	Alveolata	Alveolata	Dinophyceae	Polarella	glacialis
Y16238	Eukaryota	Alveolata	Alveolata	Dinophyceae	Proocentrum	minimum
DQ388466	Eukaryota	Alveolata	Alveolata	Dinophyceae	Protodinium	simplex
AF022156	Eukaryota	Alveolata	Alveolata	Dinophyceae	Pyrocystis	noctiluca
AF521101	Eukaryota	Alveolata	Alveolata	Dinophyceae	Roscoffia	capitata
DQ975474	Eukaryota	Alveolata	Alveolata	Dinophyceae	Sabulodinium	undulatum
AJ415515	Eukaryota	Alveolata	Alveolata	Dinophyceae	Scrippsiella	trochoidea
EF419291	Eukaryota	Alveolata	Alveolata	Dinophyceae	Symbiodinium	sp.
AY238478	Eukaryota	Alveolata	Alveolata	Dinophyceae	Thecadinium	kofoidii
AF274278	Eukaryota	Alveolata	Alveolata	Dinophyceae	Thoracosphaera	heimii
AF274252	Eukaryota	Alveolata	Alveolata	Dinophyceae	Togula	jolla
FJ947046	Eukaryota	Alveolata	Alveolata	Dinophyceae	Warnowia	sp.
AF239260	Eukaryota	Alveolata	Alveolata	Syndiniales	Amoebophrya	ceratii
AY208894	Eukaryota	Alveolata	Alveolata	Syndiniales	Amoebophrya	ceratii
EF065717	Eukaryota	Alveolata	Alveolata	Syndiniales	Hematodinium	perezi
DQ504356	Eukaryota	Alveolata	Alveolata	Syndiniales	Hematodinium	sp.
DQ504327	Eukaryota	Alveolata	Alveolata	Syndiniales	Hematodinium	sp.
DQ146403	Eukaryota	Alveolata	Alveolata	Syndiniales	Syndinium	turbo

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**Figure S1.** Shape of two *Blastodinium* individuals successfully sequenced (Fig. 5) and not included in the main manuscript. The copepod host is *Farranula* cf. *rostrata*. Scale bars = 100  $\mu$ m. These individuals were observed after DNA-staining by propidium iodide.



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