Fig. S1. Sampling site and surrounding area. A, Map of Shandong peninsula, yellow circle indicates the sample site; inset: coastal area around sampling site. B, Photograph of sampling site near Zhanqiao Pier at Qingdao.

Table S1. Supplementary morphometrics of *Amphorellopsis acuta* and *Tintinnopsis beroidea*.

Character[a]	Species name	Min	Max	Mean	M	SD	CV	N
Anterior cell end to anterior macronucleus nodule, distance	*A. acuta*	31	49	34.7	34	3.2	9.4	15
	T. beroidea	4	16	11.9	12	1.5	12.9	12
Ventral kinety, distance to anterior cell end	*T. beroidea*	3	6	4.1	4	1.2	37.7	12
Dorsal kinety, distance to right ciliary field	*T. beroidea*	2	5	3.3	3	1.0	29.7	12
Dorsal kinety, distance to left ciliary field	*T. beroidea*	8	12	9.7	10	1.2	11.9	12
Dorsal kinety 1, distance to anterior cell end	*T. beroidea*	3	4	3.5	3	0.5	20.9	12
Posterior kinety, distance to anterior cell end	*T. beroidea*	15	31	24.0	24	4.1	17.9	12
Longest kinety in right field, length	*T. beroidea*	16	24	18.9	19	2.6	14.0	12
Longest kinety in right field, number of kinetids	*T. beroidea*	6	11	7.4	7	1.0	13.4	12
Shortest kinety in right field, length	*T. beroidea*	4	8	5.3	5	0.8	14.4	12
Shortest kinety in right field, number of kinetids	*T. beroidea*	2	3	2.6	3	0.5	19.9	12
Longest kinety in left field, length	*T. beroidea*	14	21	17.1	17	1.8	10.7	13
Longest kinety in left field, number of kinetids	*T. beroidea*	6	8	6.8	7	0.8	11.2	12
Shortest kinety in left field, length	*T. beroidea*	3	5	3.8	4	0.7	18.7	12
Shortest kinety in left field, number of kinetids	*T. beroidea*	2	3	2.4	2	0.5	21.3	12
Longest kinety of lateral ciliary field, length	*T. beroidea*	16	24	20.1	20	2.5	12.6	12

Character	Species	Min	Max	Mean	M	SD	CV	N
Shortest kinety of lateral ciliary field, length	*T. beroidea*	14	23	18.3	18	2.6	14.0	12
Kineties in ciliary field (somatic kineties in *A. acuta*), distance to anterior cell end	*A. acuta*	2	6	3.7	3	1.4	38.1	15
	T. beroidea	4	8	5.4	5	1.4	31.2	12

All data are based on protargol-stained specimens. Abbreviations: CV = Coefficient of variation in %, Max = Maximum, Mean = Arithmetic mean, M = Median, Min = Minimum, N = Number of cells measured, SD = Standard deviation.

Table S2. Newly sequenced SSU- and LSU- rDNA.

Species name	Marker	Length (bp)	GC content (%)	GenBank accession number
Amphorellopsis acuta	SSU rDNA	1,542	48.70	MW011754
	LSU rDNA	1,707	50.50	MW011752
Tintinnopsis beroidea	SSU rDNA	1,761	46.28	MW011755
	LSU rDNA	1,794	49.16	MW011753

Table S3. Numbers of unmatched nucleotides (upper right) and distribution of percentages of sequence identity (lower left) to SSU rDNA gene sequences of *Amphorellopsis*, *Amphorides*, *Steenstrupiella*, and *Salpingacantha* sequences.

Sequence	1	2	3	4	5	6	7
1 *Amphorellopsis acuta* MW011754	-	7	13	39	15	16	86
2 *Amphorellopsis acuta* FJ196071	0.995	-	8	34	10	11	82
3 *Amphorellopsis acuta* JX101847	0.991	0.994	-	30	6	7	77
4 *Amphorides* minor KY290324	0.974	0.977	0.980	-	24	25	92
5 *Amphorides amphora* JX101849	0.990	0.993	0.996	0.984	-	1	81
6 *Steenstrupiella steenstrupii* EU399537	0.989	0.992	0.995	0.983	0.999	-	82
7 *Salpingacantha undata* KY290325	0.943	0.946	0.949	0.939	0.946	0.946	-

Table S4. The list of synonyms of *Tintinnopsis beroidea*.

1884 *Codonella beroidea* Stein sp. – Entz, *Mitt D Zool Station Neap* 5: 296, 411, 412,

[Plate 19, Figs 2–9] (Entz, 1884)

1887 *Tintinnopsis beroidea* var. *acuminata* – Daday, Mitt zool Stn Neapel 7: 547,

[Plate 19, Figs 4, 5, 29] (Daday, 1887)

1924 *Tintinnopsis beroidea* var. *angustior* –Jörgensen, Biology, 3: 67, 68, [Fig. 73]

(Jörgensen, 1924)

1952 *Tintinnopsis acuminata* (Daday) Kofoid and Campbell – Yin, J Shandong Univ,

2: 39, [Fig. 5] (Yin, 1952

1969 *Tintinnopsis acuminata* Daday, 1887 – Marshall, Denmark: Conseil International

pour l'Exploration de la Mer, Copenhagen 3[Fig. 8] (Marshall, 1969)