

# Supplementary Material

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**Supplementary Table S1.** Blastn results of clone sequences obtained from a clone library constructed using the primer pair designed in this study

	Closest relative	Accession No.	E-value	No. (%)	
				Gaps	Identity
Col. 1	<i>Nitzschia incurvata</i> var. <i>lorenziana</i> R. Ross, 1986	KC736608	1e-161	0/380 (0)	358/380 (94)
Col. 2	<i>Navicula</i> sp.	KY320308	5e-155	0/308 (0)	306/308 (99)
Col. 3	<i>Navicula salinarum</i> Grunow, 1880	KY320303	1e-146	0/320 (0)	309/320 (97)
Col. 4	<i>Halamphora coffeaeformis</i> (C. Agardh) Levkov, 2009	KX120546	3e-142	0/312 (0)	301/312 (96)
Col. 5	<i>Halamphora montana</i> (Krasske) Levkov, 2009	KC736590	2e-174	0/367 (0)	357/367 (97)
Col. 6	<i>Halamphora montana</i> (Krasske) Levkov, 2009	KC736590	1e-175	0/372 (0)	361/372 (97)
Col. 7	<i>Nitzschia incurvata</i> var. <i>lorenziana</i> R. Ross, 1986	KC736608	1e-146	0/380 (0)	349/380 (92)
Col. 8	<i>Thalassiosira pseudonana</i> Hasle & Heimdal, 1970	XM_002297482	6e-174	0/381 (0)	366/381 (96)
Col. 9	<i>Halamphora montana</i> (Krasske) Levkov, 2009	KC736590	6e-174	0/372 (0)	360/372 (97)
Col. 10	<i>Psammoneis obaidii</i> Ashworth & J. Sabir, 2015	KR059024	1e-180	2/433 (0)	405/433 (94)
Col. 11	<i>Entomoneis</i> sp.	KX120570	0	0/433 (0)	422/433 (97)
Col. 12	<i>Pseudostaurosira brevistriata</i> (Grunow) D. M. Williams & Round, 1988	KU851889	0	0/432 (0)	421/432 (97)
Col. 13	<i>Dimeregramma</i> sp.	KR048209	0	0/433 (0)	414/433 (96)
Col. 14	<i>Navicula gregaria</i> Donkin, 1861	KY320297	0	0/433 (0)	424/433 (98)
Col. 15	<i>Navicula salinarum</i> f. <i>minima</i> Kolbe, 1927	KY320304	0	0/433 (0)	429/433 (99)
Col. 16	<i>Cocconeis</i> cf. <i>mascarenica</i>	KT943679	0	0/432 (0)	420/432 (97)
Col. 17	<i>Pseudostaurosira brevistriata</i> (Grunow) D. M. Williams & Round, 1988	KU851889	0	0/432 (0)	417/432 (97)

**Supplementary Table S2.** Changes in the number of reads according to the pre-processing of MiSeq data

Date	Stations	Raw reads	No. of remained reads		
			Removal of short / long and ambiguous reads	Removal of nonsense codon-containing reads	Removal of chimera
Oct 31, 2011	D01	49,541	26,124	25,342	24,343
	D02	82,624	40,939	40,135	38,793
	D03	47,405	19,287	18,814	18,384
	D04	43,559	19,765	19,113	18,454
	D05	45,964	21,687	20,941	20,082
	D06	63,068	29,990	28,887	28,168
	D07	57,578	27,254	26,592	26,011
	D08	72,615	28,689	27,527	27,194
	D09	60,044	24,233	23,391	22,988
	D10	72,930	34,789	33,600	33,207
Jan 27, 2012	D01	33,160	14,743	14,405	10,677
	D02	30,708	12,931	12,655	9,246
	D03	38,035	17,821	17,470	12,304
	D04	37,239	18,633	18,212	12,548
	D05	32,185	14,638	14,309	10,149
	D06	43,315	21,822	21,351	15,114
	D07	34,675	17,685	17,341	12,128
	D08	39,728	18,305	17,861	12,392
	D09	32,488	14,853	14,527	10,326
	D10	55,803	26,981	26,406	22,138
Remained reads		972,664	451,169	438,879	384,646
%		100.0	46.4	45.1	39.5