

**Table S2** Plastid-related OTU affiliation obtained by alignment of 16S rDNA plastids sequences with NCBI BLAST tool, Genbank Databases, and plastids sequences from Phytoref [46].

<b>OTU number</b>	<b>NCBI affiliation</b>	<b>Genbank affiliation</b>	<b>Identity (%)</b>	<b>Phytoref affiliation</b>	<b>Identity (%)</b>
<b>2</b>	<i>Picocystis salinarum</i>	<i>Picocystis salinarum</i>	99%	<i>Picocystis salinarum</i>	99%
<b>115</b>	<i>Kryptoperidinium foliaceum</i>	<i>Nitzschia/Kryptoperidinum/Amphora</i>	99%	<i>Cymbella</i>	99%
<b>46</b>	Unknown	<i>Amphiprora/Planoglabratella</i>	99%	<i>Cymbella/Cymbopleura</i>	99%
<b>148</b>	Multi-affiliation	<i>Pinnularia/Planoglabratella</i>	99%	<i>Cymbella fuegensis</i>	99%
<b>248</b>	Unknown	<i>Eunotia/Haslea/Asterionellopsis</i>	99%	<i>Cymbella/Haslea</i>	99%
<b>269</b>	Unknown	<i>Planoglabratella/Navicula</i>	98%	<i>Naviculacea</i>	99%
<b>85</b>	<i>Gyrosigma fasciola</i>	<i>Gyrosigma fasciola</i>	99%	<i>Gyrosigma fasciola</i>	99%