

Table S4. Primer sequences used for the real-time quantitative PCR analysis in *P. tricornutum*, the LHCF2 gene has been analysed with the primers designed by Siaut et al. [36] (the gene is called “FcpB” in the cited study).

Primer name	Primer sequence 5'-3'
RedCAP For	CTTTGTCGACCCTAACCACCCT
RedCAP Rev	TTCGGCTTCTTCGGTAAGTCC
LHCF2 For	GCCGATATCCCCAATGGATTT
LHCF2 Rev	CTTGGTCGAAGGAGTCCCATC
OHP1-like 1 For	GCCATCGGAAACCGAGAAA
OHP1-like 1 Rev	CGAGTTCGACCGTATCCAATG
OHP1-like 2 For	GCGCCAACCACTCTTTTCTG
OHP1-like 2 Rev	GGGTAATACCAGTAACTGTGCCAAA
OHP2 For	AAGAAACCTGGCGGAAGGAA
OHP2 Rev	AGGAAGAACATGGCGAATCGT
SEPX For	GCAGAAATTTGGAATGGACGTG
SEPX Rev	CGCCTTCCTGTAGACCCTGAAT
18S rRNA For	TGCCCTTTGTACACACCGC
18 rRNA Rev	AAGTTCTCGCAACCAACACCA

Abbreviations: For, forward primer, Rev, reverse primer.