

Fig. S1

Agarose gel of the PCR reactions performed using DNA extracted from *Dunaliella* cells (lane 2) and *E. focardii* cells (lane 3) as templates, using the same primers of Fig. 6. A clear band is present only in the PCR sample containing *E. focardii* DNA (lane 3).

Fig. S2

Multiple sequence alignment of EFsymbAFP with the IBP sequences from *Fragilariopsis cylindrus*, CN212299; *Typhula ishkarioensis*, BAD02897; *Glaciozyma antarctica* ACX31168; *Stigmatella aurantiaca* (strain DW4/3-1), using the PRALINE multiple sequence alignment tool. Colours indicated amino acid residues with different chemical-physical properties: small non polar (orange), large non-polar (blue), and charged (red).

Fig. S3

Multiple sequence alignment of EFsymbIBP with the IBP sequences from *Psychroflexus torquis* (strain ATCC700755), YP_006867144; *Flavobacteriaceae bacterium* (strain 3519-10), gi_255534643; *Fragilariopsis cylindrus*, CN212299; *Flammulina populicola*, ACL27144; *Lentinulaedodes edodes*, ACL27145; *Glaciozyma antarctica* ACX31168; *Chlamydomonas* sp., EU190445, using the PRALINE multiple sequence alignment tool. Colours indicated amino acid residues with different chemical-physical properties.

M

1

2

bp

1000

750

500

250





