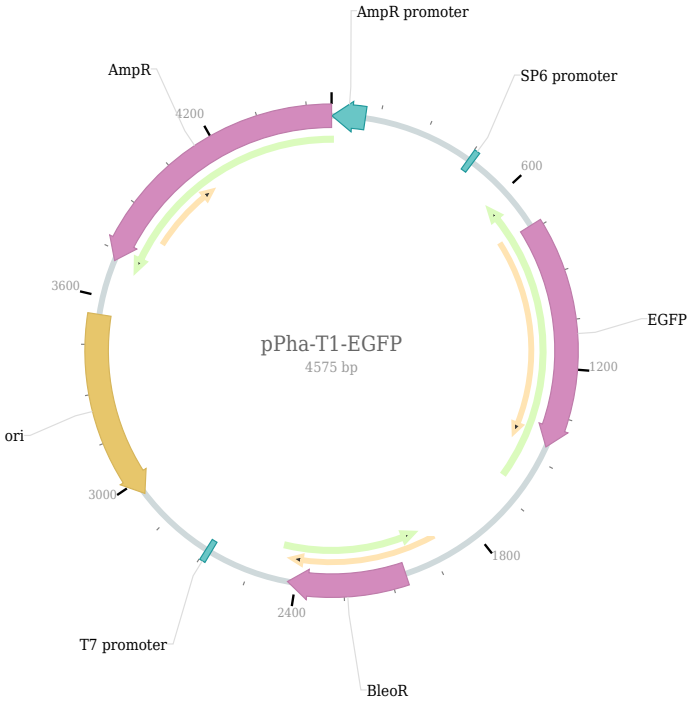
pPha-T1-EGFP

Vector ID	V014000
Antibiotic Resistance	Ampicillin
Length	4575 bp
Vector Type	Protein expression
Host	Broad host

Product Information

Replication Origin	ori
Selection Marker	Zeo
Promoter	fcpA
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pPha-T1-EGFP is a diatom-specific nuclear transformation vector built on the pPha-T1 backbone, designed to express enhanced GFP (eGFP) in the model pennate diatom Phaeodactylum tricornutum under the native diatom fcpA promoter — with Zeocin® (sh ble) as the primary selectable marker for algal transformants and AmpR for E. coli propagation.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.