Table S1 – Characteristics of the bacterial strains and plasmids used in this study

Strain/Plasmid	Relevant features	Reference
***Escherichia coli* CM404**	*E. coli* strain harboring the self-transmissible plasmid pRK2013 enabling the conjugative transfer of RSF1010-derived pC plasmids into cyanobacteria	(Mermet-Bouvier and Chauvat, 1994)
***Escherichia coli* TOP10**	*E. coli* strain for cloning and conjugation	Invitrogen
***Escherichia coli* NEB 10-beta**	*E. coli* strain for cloning	New England Biolabs
***Synechococcus* PCC 7002**	Well studied, fast-growing unicellular and euryhaline cyanobacterium	Pasteur Institute (Paris, France)
***Synechococcus* PCC 7942**	Well studied unicellular freshwater cyanobacterium	Pasteur Institute (Paris, France)
Plasmid cloning vectors		
pTwist	Amp^R plasmid vector	Twist Biosciences
pUC4K	Source of the Km^R marker with no transcription terminator	Pharmacia
pC	RSF1010-derived plasmid vector (Sp^R/Sm^R, Cm^R) harboring the strong p_R promoter for constitutive gene expression in *E. coli* and cyanobacteria	(Veaudor *et al.*, 2018)
Replicative plasmids for strong constitutive expression of terpene synthase genes in cyanobacteria		
pCLS	pC derived plasmid (Sp^R/Sm^R, Cm^S) harboring the *Mentha spicata* 4S-limonene synthase gene (LS) cloned between the *Nde*I and *EcoR*I restriction sites	(Chenebault *et al.*, 2020) & This study
pCPS	pC derivative (Sp^R/Sm^R, Cm^S) harboring the *Pinus taeda* pinene synthase gene (PS) cloned between *Nde*I and *EcoR*I	(Blanc-Garin *et al.*, 2022) & This study
pCBS	pC derivative (Sp^R/Sm^R, Cm^S) carrying the *Abies grandis* bisabolene synthase gene (BS) cloned between *Nde*I and *EcoR*I	(Blanc-Garin *et al.*, 2022) & This study
pCFS	pC derivative (Sp^R/Sm^R, Cm^S) carrying the *Picea abies* farnesene synthase gene (FS) cloned between *Nde*I and *EcoR*I	(Blanc-Garin *et al.*, 2022) & This study
Plasmids for gene cloning into the NS_{7002} neutral chromosomal site of *Synechococcus* PCC 7002		
pTwist_NS-S7002	pTwist harboring an *Eco*RV restriction site flanked by two 500 bp chromosomal DNA regions for cloning genes in the NS_{7002} neutral chromosome site of *Synechococcus* PCC 7002	This study (Twist Bioscience) and Figure S7
pTwist_NS-S7002p_RLSKm^R	pTwist_NS-S7002 harboring the Km^R DNA cassette expressing the *Mentha spicata* 4S-limonene synthase from the strong p_R promoter	This study; Figure S7
Plasmids for gene cloning into the NS_{7942} neutral chromosomal site of *Synechococcus* PCC 7942		
pTwist_NSI-S7942	pTwist harboring an *Sma*I restriction site flanked by two 300 bp regions chromosomal DNA regions for cloning genes in the NSI_{7942} neutral chromosome site of *Synechococcus* PCC 7942	This study (Twist Bioscience) Figure S7
pTwist_NSI-S7942-p_RFSKm^R	pTwist_NS-S7942 harboring the Km^R DNA cassette expressing the *Picea abies* farnesene synthase gene (FS) from the strong p_R promoter	This study; Figure S8

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