

Type/Function	Specific target	Gene	Gene Product	Primers	References
Hepatotoxin	Microcystin	<i>mcyE</i>	Microcystin synthetase E	mcyE-F	Vaitomaa et al., 2020
				mcyE-R	"
Neurotoxin	Saxitoxin	<i>sxtA</i>	Saxitoxin protein	sxtA-F	Al-Tebrineh et al., 2010
				sxtA-R	"
	Anatoxin	<i>anaC</i>	Anatoxin-A synthetase	anaC-F	Rantala-Ylinen et al., 2011
				anaC-R	"
Cytotoxin	Cylindrospermopsin	<i>cyrA</i>	Amidinotransferase	cyrA-F51	Jiang et al., 2014
				cyrA-R1167	"
Nitrogen	Conversion of N2 gas to ammonium	<i>nifH</i>	Nitrogenase reductase	nifH-F	Olson et al., 1998
				nifH-R	"
Light	Phycocyanin	<i>cpcBA</i>	Phycocyanin beta and alpha subunits and intergenic region	PC-Beta-F	Neilan et al., 2021
				PC-Beta-R	"
Taxonomy	Eukaryotes	18S	18S ribosomal RNA	S-*Univ-1391-a-S-16	Earth microbiome project
				EukBr	"
	Bacteria and Archaea	16S	16S ribosomal RNA	S-D-Bact-0515-b-S-19	Parada et al., 2016
				S-D-Bact-0806-b-A-20	Apprill et al., 2015
	Cyanobacteria	16S	16S ribosomal RNA	CYA359-F	Nubel et al., 1997
				CYA-359-R	"