

Supplementary Material: Harmful Cyanobacterial Material Production in the North Han River (South Korea): Genetic Potential and Temperature-Dependent Properties

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Table S1. BLAST result of harmful-material-synthesizing genes of cyanobacterial strains isolated from the North-Han River, S. Korea.

Cyanobacteria	Target gene	Description	Max Score	Query Cover	E Value	Identity	Accession
<i>Dolichospermum circinale</i> (ST)	<i>mcyA</i>	<i>Microcystis aeruginosa</i> UTEX 'LB 2385' <i>mcyA</i> (<i>mcyA</i>) gene, partial cds	73.1	44%	3e-09	79%	KF372574.1
<i>Aphanizomenon flos-aquae</i>	<i>mcyA</i>	<i>Microcystis aeruginosa</i> FCY-26 <i>mcyA</i> (<i>mcyA</i>) gene, complete cds	241	51%	7e-60	99%	JQ290083.1
<i>Microcystis aeruginosa</i>	<i>mcyA</i>	<i>Microcystis aeruginosa</i> FCY-26 <i>mcyA</i> (<i>mcyA</i>) gene, complete cds	440	95%	7e-120	98%	JQ290083.1
<i>Oscillatoria limosa</i>	<i>mib</i>	<i>Oscillatoria limosa</i> LBD 305b MIB synthase gene, partial cds	265	100%	3e-67	96%	HQ630885.1
<i>Dolichospermum circinale</i> (ST)	<i>gys</i>	<i>Anabaena ucrainica</i> CHAB2155 geosmin synthesis operon, complete sequence	1020	98%	0.0	99%	HQ404997.1
<i>Dolichospermum circinale</i> (CT)	<i>gys</i>	<i>Anabaena ucrainica</i> CHAB2155 geosmin synthesis operon, complete sequence	1020	98%	0.0	99%	HQ404997.1

Remarks: *mcyA*: microcystin synthesis gene, *mib*: 2-methylisoborneol(MIB) synthesis gene, *gys*: geosmin synthesis gene, ST: Straight type, CT: Coiled type.



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