

Materials List for:

Genetic Modification of Cyanobacteria by Conjugation Using the CyanoGate Modular Cloning Toolkit

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Materials

Name	Company	Catalog Number	Comments
5-bromo-4-chloro-3-indolyl-β-D-galactopyranoside (X-Gal)	Thermo Fisher Scientific	R0404	Used in 2.1.3.
Adenosine 5'-triphosphate (ATP) disodium salt	Sigma-Aldrich	A2383	Used in Table 2.
Agar (microbiology tested)	Sigma-Aldrich	A1296-500g	Used in 8.3.
Agarose	Bioline	BIO-41026	Used in 6.
Attune NxT Flow Cytometer	Thermo Fisher Scientific	-	Used in 4.3.1.
Bovine Serum Albumin (BSA)	Sigma-Aldrich	A2153	Used in Table 2.
Bpil (BbsI)	Thermo Fisher Scientific	ER1011	Used in Table 2.
Bsal (Eco31I)	Thermo Fisher Scientific	ER0291	Used in Table 2.
Carbenicillin disodium	VWR International	A1491.0005	Used in 2.1.3.
Corning Costar TC-Treated flat-bottom 24 well plates	Sigma-Aldrich	CLS3527	Used in 4.1.3.
Dimethyl Sulfoxide (DMSO)	Thermo Fisher Scientific	BP231-100	Used in 3.6.2.
DNeasy Plant Mini Kit	Qiagen	69104	DNA extraction kit. Used in 5.
FLUOstar Omega Microplate reader	BMG Labtech	-	Used in 4.2.2.
GeneJET Plasmid Miniprep Kit	Thermo Fisher Scientific	K0503	Plasmid purification kit. Used in step 2.3.2.
Glass beads (0.5 mm diameter)	BioSpec Products	11079105	Used in 5.2.
Glycerol	Thermo Fisher Scientific	10021083	Used in 2.3.1, 3.6.2.
Isopropyl-beta-D-thiogalactopyranoside (IPTG)	Thermo Fisher Scientific	10356553	Used in 2.1.3.
Kanamycin sulphate (Gibco)	Thermo Fisher Scientific	11815-024	Used in 2.1.3.
Membrane filters (0.45 μm)	MF-Millipore	HAWP02500	Used in 3.3.7
Microplates, 96-well, flat-bottom (Chimney Well) μCLEAR	Greiner Bio-One	655096	Used in 4.2.1.
Monarch DNA Gel Extraction Kit	New England Biolabs	T1020S	Used in 1.1.2.2.
Monarch PCR DNA Cleanup Kit	New England Biolabs	T1030	DNA purification kit. Used in 1.1.2.3.
Multitron Pro incubator with LEDs	Infors HT	-	Shaking incubator with white LED lights. Used in 4.1.4.
MyTaq DNA Polymerase	Bioline	BIO-21108	Used in 7.1.
NanoDrop One	Thermo Fisher Scientific	ND-ONE-W	Used in 2.3.3.

One Shot TOP10 chemically competent <i>E. coli</i>	Thermo Fisher Scientific	C404010	Used in 2.1.1.
Phosphate buffer saline (PBS) solution (10X concentrate)	VWR International	K813	Used in 4.3.2.
Q5High-Fidelity DNA Polymerase	New England Biolabs	M0491S	Used in 1.1.2.1.
Quick-Load 1 kb DNA Ladder	New England Biolabs	N0468S	Used in Figure 4.
Screw-cap tubes (1.5 ml)	Starstedt	72.692.210	Used in 3.6.3
Spectinomycin dihydrochloride pentahydrate	VWR International	J61820.06	Used in 2.1.3.
Sterilin Clear Microtiter round-bottom 96-well plates	Thermo Fisher Scientific	612U96	Used in 4.3.1.
T4 DNA ligase	Thermo Fisher Scientific	EL0011	Used in Table 2.
TissueLyser II	Qiagen	85300	Bead mill. Used in 5.2.