

Materials List for:

Generating Transgenic Plants with Single-copy Insertions Using BIBAC-GW Binary Vector

Marielis Tark-Dame¹, Blaise Weber¹, Mara de Sain¹, Damar Tri Anggoro¹, Rechien Bader¹, Aimee Walmsley¹, Rurika Oka¹, Maïke Stam¹

¹Swammerdam Institute for Life Sciences, University of Amsterdam

Correspondence to: Marielis Tark-Dame at m.tark@uva.nl, Maïke Stam at m.e.stam@uva.nl

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Materials

Name	Company	Catalog Number	Comments
Kanamycin sulphate monohydrate	Duchefa	K0126	
Gentamycin sulphate	Duchefa	G0124	
Rifampicin	Duchefa	R0146	
Tetracycline hydrochloride	Sigma	T-3383	
DB3.1 competent cells	Thermo Scientific - Invitrogen	11782-018	One Shot <i>ccdB</i> Survival 2 T1R Competent Cells (A10460) by Invitrogen or any other <i>ccdB</i> resistant <i>E. coli</i> strain can be used instead
DH10B competent cells	Thermo Scientific - Invitrogen	18290-015	
Gateway LR clonase enzyme mix	Thermo Scientific - Invitrogen	11791-019	
tri-Sodium citrate dihydrate	Merck	106432	
Trizma base	Sigma-Aldrich	T1503	
EDTA disodium dihydrate	Duchefa	E0511	
Proteinase K	Thermo Scientific	EO0491	
Bacto tryptone	BD	211705	
Yeast extract	BD	212750	
Sodium chloride	Honeywell Fluka	13423	
Potassium chloride	Merck	104936	
D(+)-Glucose monohydrate	Merck	108346	
Electroporation Cuvettes, 0.1 cm gap	Biorad	1652089	
Electroporator Gene Pulser	BioRad		
Magnesium sulfate heptahydrate	Calbiochem	442613	
D(+)-Maltose monohydrate 90%	Acros Organics	32991	
Sucrose	Sigma-Aldrich	84100	
Silwet L-77	Fisher Scientific	NC0138454	
Murashige Skoog medium	Duchefa	M0221	
Agar	BD	214010	
Glufosinate-ammonium (Basta)	Bayer	79391781	
Restriction enzymes	NEB		
Ethidium Bromide	Bio-Rad	1610433	
Electrophoresis system	Bio-Rad		
Sodium hydroxide	Merck	106498	
Hydrochloric acid	Merck	100316	

Blotting nylon membrane Hybond N+	Sigma Aldrich	15358	or GE Healthcare Life Sciences (RPN203B)
Whatman 3MM Chr blotting paper	GE Healthcare Life Sciences	3030-931	
dNTP	Thermo Fisher	R0181	
Acetylated BSA	Sigma-Aldrich	B2518	
HEPES	Sigma-Aldrich	H4034	
2-Mercaptoethanol	Merck	805740	
Sephadex G-50 Coarse	GE Healthcare Life Sciences	17004401	or Sephadex G-50 Medium (17004301)
Dextran sulfate sodium salt	Sigma-Aldrich	D8906	
Sodium Dodecyl Sulfate	US Biological	S5010	
Salmon Sperm DNA	Sigma-Aldrich	D7656	
Sodium dihydrogen phosphate monohydrate	Merck	106346	
Storage Phosphor screen and cassette	GE Healthcare Life Sciences	28-9564-74	
Phosphor imager	GE Healthcare Life Sciences	Typhoon FLA 7000	
UV Crosslinker	Stratagene	Stratalinker 1800	
cling film (Saran wrap)	Omnilabo	1090681	
Agarose	Thermo Scientific - Invitrogen	16500	
Boric acid	Merck	100165	
DNA marker 'Blauw'; DNA ladder.	MRC Holland	MCT8070	
DNA marker 'Rood'; DNA ladder	MRC Holland	MCT8080	
Hexanucleotide Mix	Roche	11277081001	
Large-Construct Kit	Qiagen	12462	
Heat-sealable polyethylene tubing, clear	various providers		the width of the tubing should be wider than that of blotting membrane
Heat sealer			
Membrane filter disk	Merck	VSWP02500	
Magnesium chloride	Merck	105833	
Hybridization mesh	GE Healthcare Life Sciences	RPN2519	