

Materials List for:

Unravelling the Function of a Bacterial Effector from a Non-cultivable Plant Pathogen Using a Yeast Two-hybrid Screen

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Materials

Name	Company	Catalog Number	Comments
Cetyltrimethylammonium bromide (CTAB)	Applichem	A6284	for DNA preparation
Trishydroxymethylaminomethane (Tris)	Applichem	A2264	for media and buffer
Sodium chloride (NaCl)	Applichem	A2942	for media and buffer
Ethylenediaminetetraacetic acid Disodium salt (NaEDTA)	Applichem	A2937	for media and buffer
N-Lauroylsarcosine sodium salt	Applichem	A7402	for DNA preparation
ammonium acetate	Sigma-Aldrich (Fluka)	9688	for DNA preparation
2-mercaptoethanol	Applichem	A1108	for DNA preparation
Isopropanol (2-Propanol)	Applichem	A3928	for DNA preparation
Ethanol	Sigma-Aldrich (Fluka)	51976	for DNA preparation
RNAse	Applichem	A2760	for DNA preparation
Chloroform:Isoamyl 24:1	Applichem	A1935	for DNA preparation
Proofreading Polymerase (e.g. iProof)	Bio-Rad	203433	for PCR
EcoRI	Thermo Scientific	ER0271	for cloning
Sall	Thermo Scientific	ER0641	for cloning
Column-based DNA Purification Kit (e.g. QIAquick)	Qiagen	28104	for cloning
Kanamycin Sulfate	Applichem	A1493	for microbiological selection
3-Amino-1,2,4-Triazole (3-AT)	Sigma-Aldrich	A8056	for self-activation assay
L-Arginine Monohydrochloride	Applichem	A3680	for yeast culture
L-Isoleucine	Applichem	A3642	for yeast culture
L-lysine Monohydrate	Applichem	A3448	for yeast culture
L-Methionine	Applichem	A3897	for yeast culture
L-Phenylalanine	Applichem	A3464	for yeast culture
L-Threonine	Applichem	A3946	for yeast culture
L-Tyrosine	Applichem	A3401	for yeast culture
L-Uracile	Applichem	A0667	for yeast culture
L-Valine	Applichem	A3406	for yeast culture
L-Adenine Hemisulfate Salt	Applichem	A1596	for yeast culture
0.22 µm Pore Filter	Sartorius	16541	for sterile filtration
L-Histidine Monohydrochloride	Applichem	A3719	for yeast culture
L-Leucine	Applichem	A3496	for yeast culture
L-Tryptophane	Applichem	A3410	for yeast culture

Yeast Nitrogen Base	Sigma-Aldrich	51483	for yeast culture
D-Glucose Monohydrate	Applchem	A1349	for yeast culture
Agar	Fisher Scientific	BP2641-1	for yeast and bacteria culture
Peptone	Applchem	A2208	for yeast culture
Polyethylene Glycol 4000 (PEG)	Applchem	A1249	for yeast transformation
Lithium Acetate Dihydrate (LiOAc)	Applchem	A3478	for yeast transformation
Salmon Sperm DNA	Applchem	A2159	for yeast transformation
Antibody against Lex-A tag (e.g. Anti-LexA DNA binding region)	Millipore	06-719	for Western blot
Plasmid Miniprep kit (e.g. GenElute Plasmid Miniprep Kit)	Sigma-Aldrich	PLN350	for plasmid purification from yeast and bacteria
Acid Washed Glass Beads	Sigma-Aldrich	G8772	for plasmid purification from yeast
Ampicillin Sodium Salt	Applchem	A0839	for microbiological selection
Yeast Extract	Applchem	A1552	for yeast culture
Vacuum concentrator centrifuge (e.g. Concentrator 5301)	Eppendorf	Z368245 (Sigma)	for DNA preparation
Bait vector (e.g. pLexA-N)	Dualsystems	P01004	for Y2H
Prey vector (e.g. pGAD-HA)	Dualsystems	P01004	for Y2H
Control prey vector (e.g. pLexA-p53)	Dualsystems	P01004	for Y2H
Control bait vector (e.g. pACT-largeT)	Dualsystems	P01004	for Y2H
Electrocompetent <i>E. coli</i> (e.g. MegaX DH10B T1R Electrocomp Cells)	Invitrogen	C640003	for cloning
Yeast reporter strain (NMY51:MATahis3Δ200 trp1-901 leu2-3,112 ade2 LYS2::(lexAop)4-HIS3 ura3::(lexAop)8-lacZ ade2::(lexAop)8-ADE2 GAL4, e.g. NMY51)	Dualsystems	P01004	for Y2H
Plastic paraffin film (e.g. Parafilm M)	Sigma-Aldrich	P7793-1EA	for yeast and bacteria culture
Gas permeable sealer (e.g. BREATHseal)	Greiner	676 051	for yeast culture
PCR Cycler (e.g. T100 Thermal Cycler)	Bio-Rad	1861096	for PCR
quantitative PCR Cycler (e.g. CFX96 Touch Real-Time PCR Detection System)	Bio-Rad	1855195	for quantitative PCR
Microcentrifuge (e.g. Centrifuge 5417 R)	Eppendorf	5417 R	general lab equipment
Centrifuge (e.g. Centrifuge 5804 R)	Eppendorf	5804 R	general lab equipment
Nuclease-free water (DNase-free, RNase-free, Protease-free)	5Prime	2500010	for PCR and DNA works
Scalpell	Swann-Morton	0301	for DNA preparation
Sterile filter (0.22 µm; Polyethersulfone)	VWR-International	514-0073 (European Catalogue number)	for yeast and bacteria culture
Petri dishes Ø 90 mm	Greiner Bio-One	633180	for yeast and bacteria culture
Petri dishes Ø 150 mm	Greiner Bio-One	639161	for yeast culture
Photometer (e.g. BioPhotometer)	Eppendorf	550507804	for yeast culture
Photometer Cuvettes	Brand	759015	for yeast culture

Water Bath (e.g. Water Bath Memmert WB7)	Memmert	WB7	for yeast transformation
Western Blot Equipment	Bio-Rad	diverse	for protein detection
dNTPs	5Prime	2201210	for cloning
Shaker (Erlenmeyer) Flasks (100 mL; 1,000 mL; 2,000 mL) and breathable cotton plugs (e.g. Duran Erlenmeyer narrow-neck flasks)	Sigma Aldrich	Z232793, Z232858, Z232866	for yeast and bacteria culture
Shaking Incubator (e.g. GFL 3031)	GFL	3031	for yeast and bacteria culture
Incubator	Binder	KB 53 (E3.1)	for yeast and bacteria culture
Ice Maker (e.g. Ice Maker IF 825)	Omniwash	IF 825	general lab equipment
0.2 mL, 1.5 mL and 2.0 mL Reaction Vials (Polypropylene)	Eppendorf	0030.124.332 (0.2 ml); 0030.123.328 (1.5 ml); 0030.123.344 (2.0 ml)	general lab equipment
Pipettes and disposable pipette Tips (different volumina: 10 - 1,000 µL)	Eppendorf	diverse	general lab equipment
Spreader	Sigma-Aldrich	SPR-L-S01	for yeast and bacteria culture
Vortex shaker (e.g. MS 3 Minishaker)	IKA	3617000	general lab equipment
T4-Ligase	Thermo Fisher	EL0011	for cloning
Fridge (4 °C) (e.g. Liebherr Medline FKEX 5000)	Liebherr	81.767.580.4	general lab equipment
Freezer (-20 °C) (e.g. Liebherr Comfort Professional G5216)	Liebherr	G5216	general lab equipment
Graduated Cylinder (e.g. Brand)	Sigma Aldrich	Z327352; Z327417; Z327441	general lab equipment
Serological Pipettes (e.g. Fisherbrand)	Thermo Fisher	S55701	for yeast and bacteria culture
Mechanical Pipettor (e.g. Pipetboy acu 2)	Integra-Biosciences	155000	general lab equipment
Cuvettes for Electroporation (1 mm)	Molecular Bio Products	5510-11	for bacteria transformation
Electroporator (e.g. Eporator)	Eppendorf	4309000019	for bacteria transformation
Gel and Blot imaging system (e.g. ChemiDoc MP System)	Bio-Rad	1708280	general lab equipment
Conical centrifuge tubes (Polypropylene) (50 mL)	VWR-International	525-0403 (European Catalogue number)	general lab equipment
Conical centrifuge tubes (Polypropylene) (13 mL)	BD Falcon	352096	general lab equipment
Dithiothreitol (DTT; 1 M)	Thermo Scientific	P2325	for ligation
adenosine triphosphate (ATP, e.g. ATP Solution (10 mM))	Ambion	AM8110G (distributed by Thermo Scientific)	for ligation
Dropout mix without histidine, leucine, tryptophan, and adenine (DO, e.g. Yeast Synthetic Drop-out Medium Supplements)	Sigma-Aldrich	Y2021 Sigma	for yeast culture (ready-made mix)