

Materials List for:

Modifying Baculovirus Expression Vectors to Produce Secreted Plant Proteins in Insect Cells

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Materials

Name	Company	Catalog Number	Comments
Incubator shaker	VWR	Model Excella E25	27 °C
Incubator	VWR	Model 2005	27 °C
Centrifuge	BECKMAN	Model J-6	with a swing bucket rotor
Herculase II Fusion DNA Polymerase	Agilent	600677-51	For PCR amplification of DNA
Thermal Cycler	BIO-RAD	Model C1000 Touch	For PCR amplification of DNA
Incubator shaker	New Brunswick Scientific	Model I 24	For growing bacteria culture
Customer DNA synthesis	GENSCRIPT		
BamHI (HF)	New England Biolabs	R3136S	Restriction Endonuclease
BglII	New England Biolabs	R0144S	Restriction Endonuclease
NotI (HF)	New England Biolabs	R3189S	Restriction Endonuclease
XhoI	New England Biolabs	R0146S	Restriction Endonuclease
T4 DNA ligase	New England Biolabs	M0202T	DNA ligation
QIAquick Gel Extraction Kit	Qiagen	28704	DNA purification from Agorase gel
QIAprep Spin Miniprep Kit	Qiagen	27104	Plasmid DNA purification from bacteria culture
Agarose	Thermo Fisher Scientific	15510-019	For DNA gel electrophoresis
MAX Efficiency DH5α competent cell	Invitrogen	18-258-012	For transformation of DNA ligation mixture
Lennox L LB Broth	Research Product International Corp.	L24066-5000.0	For making bacteria culture
Ampicillin sodium salt	Thermo Fisher Scientific	11593-019	Antibiotics
Kanamycin Sulfate	Thermo Fisher Scientific	15160-054	Antibiotics
Tetracycline	Thermo Fisher Scientific	64-75-5	Antibiotics
Gentamicin	Thermo Fisher Scientific	15710-064	Antibiotics
MAX Efficiency DH10Bac competent cells	Thermo Fisher Scientific	10361-012	For making bacmid DNA
S.O.C. Medium	Thermo Fisher Scientific	15544-034	For DNA transformation
CellFECTIN II Reagent	Thermo Fisher Scientific	10362-101	Insect cell transfection reagent
Bac-to-Bac Expression System	Thermo Fisher Scientific	10359-016	Baculovirus-insect cells expression kit
Bluo-gal	Thermo Fisher Scientific	15519-028	For isolation of recominant Bacmid DNA
IPTG	Thermo Fisher Scientific	15529-019	For isolation of recominant Bacmid DNA
pFastBac1	Thermo Fisher Scientific	10360014	Baculovirus expression vector

Sf9 cells	Thermo Fisher Scientific	11496015	Sf9 monolayer cells
Hi5 cells	Thermo Fisher Scientific	B85502	High Five insect cells
Grace's insect medium, unsupplemented	Thermo Fisher Scientific	11595030	Sf9 cell transfection minimum medium
Grace's insect medium, supplemented	Thermo Fisher Scientific	11605102	Sf9 monolayer cell culture complete medium
Sf-900 II SFM	Thermo Fisher Scientific	10902104	Sf9 suspension cell culture medium without FBS
Express Five SFM	Thermo Fisher Scientific	10486025	Hi5 cell culture medium
Penicillin-Streptomycin	Thermo Fisher Scientific	15140122	100 ml (10,000 I.U./ml)
L-Glutamine (200 mM)	Thermo Fisher Scientific	25030081	100 ml
FBS Certified	Thermo Fisher Scientific	16000-044	500 ml
6-well plates	Thermo Fisher Scientific	08-772-1B	Flat-bottom
150 mm plates	Thermo Fisher Scientific	353025	100/case
1.5 ml Microcentrifuge Tubes	USA Scientific	1415-2500	500 tubes/bag
15 ml conical screw cap centrifuge tubes	USA Scientific	1475-0511	25 tubes/bag
50 ml conical screw cap centrifuge tubes	USA Scientific	1500-1211	25 tubes/bag
Ni-NTA Superflow	Qiagen	30430	NiNTA resin
pH-indicator strips	EMD Millipore Corporation	1.09535.0001	pH 0 - 14