

Materials List for

Production of Recombinant PRMT Proteins using the Baculovirus Expression Vector System

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Materials

Name	Company	Catalog Number	Comments
2.8L Nalgene Fernbach Culture Flask, Polycarbonate,	Nalgene	29171-854	For large scale maintenance of suspension culture of Sf9 cells
24-Well Blocks RB	Qiagen	19583	For incubation of 4ml of suspension Sf9 cells for protein expression screening
4-20 Criterion TGX Gel 26W 15 ul	Biorad	5671095	For SDS-PAGE analysis of the purified proteins
50ml Reagent Reservoir	Celltreat Scientific Products	229290	Reservoir used for diluted transfection reagent and Sf9 cells suspension
96-well cap mat, for use with square well, 2 mL	Greiner Bio-One	381080	Used to cover 96 well block
96 well PCR plate	Eppendorf	30129300	
Bacto agar	BD	214010	For LB-agar selection plates
Airpore Tape Sheets	Qiagen	19571	To cover 24 well blocks for protein expression screening
Allega X-15R Centrifuge	Beckman Coulter	392932	
Antibiotic Antimycotic (100x)	Gibco	15240112	
Bacmid DNA	in-house	non-catalog item	Bacmid DNA for baculovirus production
Bluo-Gal, 1g	Thermo Fisher	15519028	
Beckman JLA 8.1000			
Cell Culture Plates, 24-Well, with lid, flat bottom, sterile	Eppendorf	30722116	Tissue culture treated plate
Cell Resuspension Solution 0.5 L	Millipore Sigma	LSKCRS500	For Bacmid DNA extraction
Cell Lysis Solution 0.5 L	Millipore Sigma	LSKCLS500	For Bacmid DNA extraction
CELLSTAR Tissue Culture Plates, 96 well	Greiner Bio-One	655180	For transfection mix
ClipTip 1250, filter reload, sterile	ThermoFisher Scientific	94420818	Tips for programmable and adjustable multichannel pipette
dNTP Mix (25 mM each)	Thermo Fisher Scientific	R1121	

E1-ClipTip Electronic Adjustable Tip Spacing Multichannel Equalizer Pipette, 15 to 1250 µL	ThermoFisher Scientific	4672090BT	Programmable and adjustable multichannel pipette
E4 XLS adjustable spacer 6-channel pipette, 20-300 µL	Ranin	LTS EA6-300XLS	Ranin adjustable multichannel pipette
Filter microplate, 96-well, polypropylene, with 25 µm ultra high molecular weight polyethylene membrane	Agilent	201005-100	For protein purification in expression screening
Full-Baffle Flask Kit Tunair, 2.5L	IBI Scientific	SS-6003C	For large scale protein production in suspension culture of Sf9 cells
Gentamicin 10x10ml	BioShop	15750078	
Heat Inactivated Fetal Bovine Serum	Wisent Biocenter	080-450	
I-Max Insect Media W/ L-Glutamine, 1 L	Wisent Biocenter	301-045-LL	Serum free insect cells growth medium
InstantBlue, Ultrafast Protein Stain	Expedeon Protein Solutions	ISB1L-1L	For protein gel (SDS-PAGE) staining
Iptg, Ultra Pure, Dioxane Free, Min 99.5%	BioShop	IPT001.100	
JetPRIME Transfection Reagent Provided with jetPRIME buffer	POLYPLUS TRANSFECTION Inc	114-01	For Sf9 cells transfection to generate baculovirus
Kanamycin Monosulfate	BioShop	KAN201.100	
Lb Broth (Lennox), Powder Microbial Gro&	Sigma	L3022-1KG	
Masterblock 96 deep well 2.4mL	Greiner Bio-One	780285-FD	Used in the transformation and expression screening procedures
Max Efficiency DH10Bac Competent Cells , 0.5ml	Thermo Fisher	10361012	Competent cells for bacmid DNA generation
mLINE 12-Channel Pipette, adjustable 30 - 300 uL	Sartorius	Sartorius 725240	12 channel pipette
Neutralization Solution, 0.5 L	Millipore Sigma	LSKNS0500	For bacmid DNA extraction
New Brunswick Innova 44R, 120V, orbit 2.5 cm (1 in)	Eppendorf	M1282-0004	Shaker incubator for incubation of suspension of Sf9 cells
Ni-NTA Agarose	Qiagen	30250	For protein purification
Penicillin-Streptomycin (10,000 U/ mL)	Gibco	LS15140122	
PYREX Delong Shaker Erlenmeyer Flask with Baffles, Corning 500ml	Pyrex	4444-500	For suspension culture of Sf9 cells
PYREX Delong Shaker Erlenmeyer Flask with Baffles, Corning 125ml	Pyrex	4444-125	For suspension culture of Sf9 cells
PYREX Delong Shaker Erlenmeyer Flask with Baffles, Corning 250ml	Pyrex	4444-250	For suspension culture of Sf9 cells
RedSafe Nucleic Acid Staining Solution	Froggabio	21141	
RNase A, 0.9 mL	Millipore Sigma	LSKPMRN30	For suspension buffer for bacmid DNA extraction
Roll & Grow Spherical Glass Plating Beads	MP Biomedicals	115000550	For spread of bacterial cells across the surface of an agar plate.
RT-LTS-A-300µL-768/8 (tips)	Ranin	30389253	Tips for ranin multichannel pipette
S.O.C. Medium	Thermo Fisher Scientific	15544034	
Serum, Cell Culture, Fetal Bovine Serum (Fbs), Hyclone, Characterized Canadian	cytivalifesciences	SH3039602	Addition to the serum free medim for the transfected cells
Sf9 cells	Thermo Fisher	12659017	Insect cells
Sfx-Insect Cell Culture Media	Cytiva (Formerly GE Healthcare Life Sciences)	SH3027802	Serum free insect cells growth medium
Tape Pad	Qiagen	19570	Tape Pad

Taq DNA Polymerase with ThermoPol Buffer - 2,000 units	New England Biolabs	M0267L	
Tetracycline Hcl	BioShop	TET701.10	
Trypan Blue 0.4% Solution	Gibco	15250061	For assessment of cell viability
VITLAB Reagent Bottles, PP with Screw Caps, PP, BrandTech, 5L	VITLAB	V100889	For large scale protein production in suspension culture of Sf9 cells
VWR Digital Mini Incubator	VWR	10055-006	Incubator for adherent Sf9 cells
VWR Incubating Microplate Shaker	VWR	97043-606	Incubator for suspension culture of Sf9 cells in 24 well blocks
VWR Petri Dishes	VWR	CA73370-037	
X-tremeGene 9 DNA Transfection Reagent 1.0 M	Roche	6365787001	For Sf9 cells transfection to generate recombinant baculovirus