

Materials List for:

The Crystal Structure of the N-terminal Domain of the Ryanodine Receptor from *Plutella xylostella*

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Materials

Name	Company	Catalog Number	Comments
pET-28a-HMT vector			This modified pET vector contains a hexahistidine tag, an MBP fusion protein and a TEV protease cleavage site at the N-terminus (Lobo and Van Petegem, 2009)
<i>E. coli</i> BL21 (DE3) strain	Novagen	69450-3CN	
HisTrapHP column (5 mL)	GE Healthcare	45-000-325	
Amylose resin column	New England Biolabs	E8021S	
Q Sepharose high-performance column	GE Healthcare	17-1154-01	
Amicon concentrators (10 kDa MWCO)	Millipore	UFC901008	
Superdex 200 26/600 gel-filtration column	GE Healthcare	28-9893-36	
Automated liquid handling robotic system	Art Robbins Instruments	Gryphon	
96 Well CrystalQuick	Greiner bio-one	82050-494	
Uni-Puck	Molecular Dimensions	MD7-601	
Mounted CryoLoop - 20 micron	Hampton Research	HR4-955	
CryoWand	Molecular Dimensions	MD7-411	
Puck dewar loading tool	Molecular Dimensions	MD7-607	
Nano drop	Thermo Scientific	NanoDrop One	
Crystal incubator	Molecular Dimensions	MD5-605	
X-Ray diffractor	Rigaku	FRX	
PCR machine	Eppendorf	Nexus GX2	
Plasmid mini-prep kit	Qiagen	27104	
Gel extraction kit	Qiagen	28704	
Sspl restriction endonuclease	NEB	R0132S	
T4 DNA polymerase	Novagen	2868713	
Kanamycin	Scientific Chemical	25389940	
IPTG	Genview	367931	
HEPES	Genview	7365459	
β-mercaptoethanol	Genview	60242	

Centrifuge	Thermo Scientific	Sorvall LYNX 6000	
Sonicator	Scientz	II-D	
Protein purification system	GE Healthcare	Akta Pure	
Light microscope	Nikon	SMZ745	
IzIt crystal dye	Hampton Research	HR4-710	
Electrophoresis unit	Bio-Rad	1658005EDU	
Shaker Incubator	Zhicheng	ZWYR-D2401	
Index crystal screen	Hampton Research	HR2-144	
Structure crystal screen	Molecular Dimensions	MD1-01	
ProPlex crystal screen	Molecular Dimensions	MD1-38	
PACT premier crystal screen	Molecular Dimensions	MD1-29	
JCSG-plus crystal screen	Molecular Dimensions	MD1-37	