

Materials List for:

# Use of Recombinant Fusion Proteins in a Fluorescent Protease Assay Platform and Their In-gel Renaturation

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URL: <https://www.jove.com/video/58824>

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## Materials

Name	Company	Catalog Number	Comments
10K Amicon tubes	Merck-Millipore	UFC501096	
2-Mercaptoethanol (β-ME)	Sigma-Aldrich (St Louis, MO, USA)	M6250	
40% Acrylamide/Bis solution 37.5:1	Bio-Rad	1610148	
Acetic acid	Merck	100063	
Agarose	SERVA	11404.04	
Alpha Imager HP gel documentation system	ProteinSimple		
Ammonium persulfate (APS)	Sigma-Aldrich (St Louis, MO, USA)	A3678	
Ampicillin sodium salt	Sigma-Aldrich (St Louis, MO, USA)	A9518	
Beckman Coulter Allegra X-22 centrifuge	Beckman Coulter	392185	
Black half-area plates	Greiner bio-One	675086	
Bromophenol blue	Sigma-Aldrich (St Louis, MO, USA)	B0126	
CutSmart buffer (10x)	New England Biolabs	B7204S	For plasmid linearization (step 1.1.1)
Dark Reader transilluminator	Clare Chemical Research	DR-45M	
DNase I	New England Biolabs	M0303L	
Dynamag-2 magnetic particle concentrator	Thermo Fischer Scientific	12321D	
Escherichia coli BL21(DE3) competent cells	Thermo Fischer Scientific (Invitrogen)	C600003	
Ethanol	Merck-Millipore	100983	
Ethylenediaminetetraacetic acid (EDTA)	Sigma-Aldrich (St Louis, MO, USA)	798681	
Gel Loading Dye, Purple (6X)	New England Biolabs	B7024S	
Glycerol	Merck	356350	
Glycine	Sigma-Aldrich (St Louis, MO, USA)	G7126	
High-Speed Plasmid Mini Kit	GeneAid	PD300	
Imidazole	Sigma-Aldrich (St Louis, MO, USA)	56750	
Isopropyl β-D-1-thiogalactopyranoside (IPTG)	Thermo Fischer Scientific (Invitrogen)	AM9464	

Jouan CR 412 centrifuge	Jouan	CR412	
Labinco LD-76 Rotator	Labinco	7600	
Luria-Bertani (LB) broth	Sigma-Aldrich (St Louis, MO, USA)	L3022	
Lysozyme	Sigma-Aldrich (St Louis, MO, USA)	L6876	
Magnesium chloride	Scharlau	MA0036	
MERCK eurolab ultrasonic bath	MERCK	USR54H	
Millifuge Eppendorf spin centrifuge	Millipore	CT10	
Mini-PROTEAN 3 Electrophoresis Cell	Bio-Rad		
N,N,N',N'-Tetramethylethylenediamine (TEMED)	Sigma-Aldrich (St Louis, MO, USA)	T9281	
NanoDrop 2000	Thermo Fischer Scientific		
NheI-HF restriction endonuclease	New England Biolabs	R3131L	
Nickel(II) sulfate (NiSO <sub>4</sub> )	Sigma-Aldrich (St Louis, MO, USA)	656895	
Ni-NTA magnetic agarose beads	Qiagen	36113	
Orbital shaker	Biosan	OS-20	
PacI restriction endonuclease	New England Biolabs	R0547L	
PageBlue Protein Staining Solution	Thermo Fischer Scientific	24620	
Phenylmethanesulfonyl-fluoride (PMSF)	Sigma-Aldrich (St Louis, MO, USA)	P7626	
Protein Lobind Micro-centrifuge tubes	Eppendorf	22431102	
QIAquick Gel Extraction Kit	QIAGEN	28704	
Snijders Press-to-Mix shaker	Gemini	34524	
Sodium-acetate trihydrate	Sigma-Aldrich (St Louis, MO, USA)	S7670	
Sodium-chloride	Sigma-Aldrich (St Louis, MO, USA)	S9888	
Sodium-hydroxide	Sigma-Aldrich (St Louis, MO, USA)	S5881	
SYBR Green I Nucleic Acid Gel Stain	Thermo Fischer Scientific	S7563	
T4 DNA ligase	Promega	M180A	
Thermo shaker	Biosan	TS-100	with SC-24 accessory block
Tris	Sigma-Aldrich (St Louis, MO, USA)	T1503	
Tween 20	Sigma-Aldrich (St Louis, MO, USA)	P2287	
WALLAC VICTOR2 1420 multilabel counter	Wallac Oy, Turku, Finland		