

Materials List for

# Using Phage Display to Develop Ubiquitin Variant Modulators for E3 Ligases

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jove.com/video/62950

## Materials

Name	Company	Catalog Number	Comments
Axygen Mini Tube System (0.65 mL, sterile, 96/Rack, 10 Racks/pack)	Fisher Scientific	14-222-198	Culturing phage outputs after phage display.
BD Difco Dehydrated Culture Media: LB Broth, Miller (Luria-Bertani)	Fisher Scientific	DF0446-17-3	Preparing plates for titering.
Bovine Serum Albumin (BSA), Fraction V	BioShop Canada	ALB001	Buffer component.
Carbenicillin disodium salt 89.0-100.5% anhydrous	Millipore-Sigma	C1389-5G	Culturing phagemid-infected cells.
Compact Digital Microplate Shaker	Fisher Scientific	11-676-337	Shaking plates during incubation with the phage library.
Corning Microplate Aluminum Sealing Tape	Fisher Scientific	07-200-684	Sealing phage glycerol stocks.
Dehydrated Agar	Fisher Scientific	DF0140-01-0	Preparing plates for titering.
DS-11 Spectrophotometer/Fluorometer	DeNovix	DS-11 FX+	Protein concentration measurement.
Greiner Bio-One CellStar 96-Well, Non-Treated, U-Shaped-Bottom Microplate	Fisher Scientific	7000133	Storing phage glycerol stocks.
Hydrochloric Acid	Fisher Scientific	A144-500	Phage elution.
Invitrogen One Shot OmniMAX 2 T1R Chemically Competent <i>E. coli</i>	Fisher Scientific	C854003	Bacterial strain for phage infection.
Kanamycin Sulfate	Fisher Scientific	AAJ1792406	Culturing M13K07 helper phage-infected cells.
M13K07 Helper Phage	New England Biolabs	N0315S	Permit phagemid packing and secretion.
MaxQ 4000 Benchtop Orbital Shaker	Fisher Scientific	11-676-076	Bacterial cell culture.
Nunc MaxiSorp 96 well microplate, flat bottom	Life Technologies	44-2404-21	Immobilizing proteins.
Phosphate Buffered Saline (PBS) 10X Solution	Fisher Scientific	BP3994	Buffer component/phage resuspension medium.
Polyester Films for ELISA and Incubation	VWR	60941-120	Covering the microplates during incubation.
Polyethylene Glycol 8000 (PEG)	Fisher Scientific	BP233-1	Phage precipitation.

Sodium chloride	Millipore-Sigma	S3014	Phage precipitation.
Sterile Plastic Culture Tubes: Translucent Polypropylene	Fisher Scientific	14-956-1D	Culturing phage inputs.
Tetracycline Hydrochloride	Fisher Scientific	BP912-100	Culturing <i>E. coli</i> OmniMax cells.
Tris Base	Fisher Scientific	BP1525	Neutralizing eluted phage solution.
Tryptone Powder	Fisher Scientific	BP1421-2	Cell growth media component.
Tween 20	Fisher Scientific	BP337500	Buffer component.
Yeast Extract	Fisher Scientific	BP1422-2	Cell growth media component.