

Materials List for

Functional Assessment of *BRCA1* variants using CRISPR-Mediated Base Editors

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jove.com/video/61557

Materials

Name	Company	Catalog Number	Comments
BamHI	NEB	R3136	Restriction enzyme
Blasticidin	Thermo Fisher Scientific	A1113903	Drug for selecting transduced cells
BsaI	NEB	R0535	Restriction enzyme
DNeasy Blood & Tissue Kit	Qiagen	69504	Genomic DNA prep. kit
Dulbecco's modified Eagle's medium	Gibco	11965092	Medium for HEK293T/17 cells
Fetal bovine serum	Gibco	16000036	Supplemental for cell culture
FuGENE HD Transfection Reagent	Promega	E2311	Transfection reagent
Gibson Assembly Master Mix	NEB	E2611L	Gibson assembly kit
Iscove's modified Dulbecco's medium	Gibco	12440046	Medium for HAP1 cells
lentiCas9-Blast	Addgene	52962	Plasmids DNA for lentiBE3 cloning
Lipofectamine 2000	Thermo Fisher Scientific	11668027	Transfection reagent
Opti-MEM	Gibco	31985070	Transfection materials
pCMV-BE3	Addgene	73021	Plasmids DNA for lentiBE3 cloning
Penicillin-Streptomycin	Gibco	15140	Supplemental for cell culture
Phusion High-Fidelity DNA Polymerase	NEB	M0530SQ	High-fidelity polymerase
pMD2.G	Addgene	12259	Plasmids DNA for virus prep.
pRG2	Addgene	104174	gRNA cloning vector
psPAX2	Addgene	12260	Plasmids DNA for virus prep.
QIAprep Spin Miniprep kit	Qiagen	27106	Plasmid DNA prep. Kit
QIAquick Gel extraction Kit	Qiagen	28704	Gel extraction kit
QIAquick PCR Purification Kit	Qiagen	28104	PCR product prep. kit
Quick Ligation Kit	NEB	M2200	Ligase for gRNA cloning
T7 Endonuclease I	NEB	M0302	Materials for T7E1 assay
XbaI	NEB	R0145	Restriction enzyme