

Materials List for

A Scalable, Cell-based Method for the Functional Assessment of *Ube3a* Variants

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jove.com/video/64454

Materials

Name	Company	Catalog Number	Comments
0.05% Trypsin-EDTA (1x), phenol red	Gibco	25300-054	
1 Kb DNA ladder	Lambda Biotech	M108-S	
100 bp DNA Ladder	Lambda Biotech	M107	
10x Buffer for T4 DNA Ligase with 10 mM ATP	New England BioLabs	B0202A	
5x Phusion HF Reaction Buffer	New England BioLabs	B0518S	
Antibiotic-Antimycotic Solution	Corning	30004CI	
Black/White Isoplate-96 Black Frame White Well plate	PerkinElmer	6005030	
Carbenicillin Disodium Salt	Midwest Scientific	KCC46000-5	
Countess cell counting chamber slides	Invitrogen by Thermo Fisher Scientific	C10283	
Countess II Automated Cell Counter	life technologies		Cell counting machine
Custom DNA oligos	Integrated DNA Technologies (IDT)		
Deoxynucleotide (dNTP) Solution Mix	New England BioLabs	N0447S	
DMEM, high glucose, GlutaMAX Supplement, pyruvate	Gibco	10569044	Basal medium for supporting the growth of HEK293T cell line
DPBS (1x)	Gibco	14190-136	
Dual-Luciferase Reporter Assay System	Promega	E1910	
EcoRI-HF	New England BioLabs	R3101S	Restriction enzyme
Fetal Bovine Serum, qualified, heat inactivated	Gibco	16140071	Fetal bovine serum
Fisherbrand Surface Treated Tissue Culture Dishes	Fisherbrand	FB012924	
FuGENE 6 Transfection Reagent	Promega	E2691	
Gel Loading Dye Purple (6x)	New England BioLabs	B7024A	
HEK293T cells	ATCC	CRL-3216	
High Efficiency ig 10B Chemically Competent Cells	Intact Genomics	1011-12	E. coli DH10B cells
HiSpeed Plasmid Midi Kit	Qiagen	12643	Midi prep

pCIG2 plasmid			
pGL3 BAR plasmid			
Phusion HF DNA Polymerase	New England BioLabs	M0530L	DNA polymerase
ProFlex 3 x 32 well PCR System	Applied biosystems by life technologies		Thermocycler
pTK Renilla plasmid			
QIAprep Spin Miniprep Kit (250)	Qiagen	27106	Mini prep
QIAquick Gel Extraction Kit (250)	Qiagen	28706	Gel purification
QIAquick PCR Purification Kit (250)	Qiagen	28106	PCR purification
rCutSmart Buffer	New England BioLabs	B6004S	
SacI-HF	New England BioLabs	R3156S	Restriction enzyme
Synergy HTX Multi-Mode Reader	BioTek		Plate reader runs Gen5 software v3.08 (BioTek)
T4 DNA Ligase	New England BioLabs	M0202L	Ligase
TAE Buffer, Tris-Acetate-EDTA, 50x Solution, Electrophoresis	Fisher Scientific	BP13324	
Tissue Culture Plate 96 wells, Flat Bottom	Fisherbrand	FB012931	
UltraPure Ethidium Bromide Solution	Invitrogen by Thermo Fisher Scientific	15585011	
XmaI	New England BioLabs	R0180S	Restriction enzyme