

Materials List for:

Using a Fluorescent PCR-capillary Gel Electrophoresis Technique to Genotype CRISPR/Cas9-mediated Knockout Mutants in a High-throughput Format

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Materials

Name	Company	Catalog Number	Comments
HEPG2 cells	ATCC	HB-8065	
HyClone Dulbecco's Modified Eagles Medium (DMEM)	Thermo Fisher Scientific	SH30022.01	
HyClone Fetal Bovine Serum	Thermo Fisher Scientific	SV30160.03	
pSpCas9(BB)-2A-GFP plasmid	Addgene	PX458	
Lipofectamine 2000	Thermo Fisher Scientific	11668027	
Trypsin-EDTA (0.25%), phenol red	Thermo Fisher Scientific	25200056	
Trypsin-EDTA (0.5%), no phenol red	Thermo Fisher Scientific	15400054	
Penicillin-Streptomycin (10,000 U/mL)	Thermo Fisher Scientific	15140122	
HyClone Water, Molecular Biology Grade	GE Healthcare	SH30538.02	
CRISPR sgRNA insert oligonucleotide (sense)	AITbiotech	None	Sequence: 5'-CACCGCTAACCTTTCAGCCTGCCTA-3'
CRISPR sgRNA insert oligonucleotide (anti-sense)	AITbiotech	None	Sequence: 5'-AAACTAGGCAGGCTGAAAGGTTA-3'
Unlabeled PCR amplification forward primer	AITbiotech	None	Sequence: 5'-CACTAACTCCAATGCTTCAGTTTC-3'; this primer is also used to sequence PCR amplified alleles
6-FAM-labeled fluorescent PCR forward primer	AITbiotech	None	Sequence: 5'-6-FAM-CACTAACTCCAATGCTTCAGTTTC-3'
HEX-labeled fluorescent PCR forward primer	AITbiotech	None	Sequence: 5'-HEX-CACTAACTCCAATGCTTCAGTTTC-3'
Unlabeled PCR reverse primer	AITbiotech	None	Sequence: 5'-CCTCTTCCAAGTCTGCTTATGT-3'
Taq PCR Core Kit	QIAGEN	201223	
Hi-Di Formamide	Thermo Fisher Scientific	4311320	
GeneScan 500 LIZ Dye Size Standard	Thermo Fisher Scientific	4322682	
MicroAmp Optical 96-Well Reaction Plate	Thermo Fisher Scientific	4306737	
3500xL Genetic Analyzer	Thermo Fisher Scientific	4405633	
3500 Series 2 program	Thermo Fisher Scientific	4476988	
Gene Mapper 5 program	Thermo Fisher Scientific	4475073	
Genra Puregene Cell Kit	QIAGEN	1045696	

Wizard SV Gel and PCR Clean-Up System	Promega	A9282	
NAP1L1 Antibody (N-term)	Abgent	AP1920b	
Nuclear Matrix Protein p84 antibody [5E10]	GeneTex	GTX70220	
Peroxidase AffiniPure Goat Anti-Rabbit IgG	Jackson ImmunoResearch	111-035-144	
Peroxidase AffiniPure Sheep Anti-Mouse IgG	Jackson ImmunoResearch	515-035-003	