

Materials List for:

# Investigation of Genetic Dependencies Using CRISPR-Cas9-based Competition Assays

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URL: <https://www.jove.com/video/58710>

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## Materials

Name	Company	Catalog Number	Comments
FLAG-M2 Antibody	sigma-aldrich	F3165, lot # SLBS3530V	
Anti-mouse Antibody	Invitrogen	31446, lot # TA2514341	
SuperSignal West Femto Maximum Sensitivity Substrate	Thermo Fisher	34095	
ChemiDoc Imaging System	BIO RAD	17001401	
Sorvall Legend RT centrifuge	Thermo Scientific		
Blasticidin	Thermo Fisher	R21001	
SYTOX Red	Thermo Fisher	S34859	
Opti-MEM	Thermo Fisher	31985062	
DMEM	Thermo Fisher	11965-092	
RPMI	Thermo Fisher	11875-093	
Penicillin-Streptomycin	Thermo Fisher	15140122	
L-Glutamine (200 mM)	Thermo Fisher	25030081	
Fetal Bovine Serum (FBS)	SAFC	12303C	
single gRNA vector	Addgene #67974	pKLV2-U6gRNA5(BbsI)-PGKpuro2ABFP-W	
CellLytic Nuclear extraction kit	sigma-alorich	NXTRACT	
XtremeGENE 9	sigma-alorich	6365787001	
Retronectin	Takara	T100B	
Flow cytometer	BD Biosciences		
T4 PNK	NEBioLabs	M0201S	
T4 DNA ligation buffer	NEBioLabs	B0202S	
T4 DNA Ligase enzyme	NEBioLabs	M0202S	
Ampicillin	Fisher scientific	BP1760-25	
LB agar	Fisher scientific	BP9724-500	
LB Broth	Fisher scientific	BP9731-500	
Qiagen mini-prep kit	Qiagen	27104	
NanoDrop Spectrophotometer	Thermo Fisher	NanoDrop One	
Recombinant Murine IL-3	Peprtech	213-13	
Recombinant Murine IL-6	Peprtech	216-16	
Recombinant Murine M-CSF	Peprtech	315-02	
Stable competent cells	NEBiolabs	C3040I	
10 cm Tissue Culture dishes	Fisher Scientific	353003	

Cell lysis solution	Qiagen	158906	
Protein precipitation solution	Qiagen	158910	
DNA hydration solution	Qiagen	158914	
QIAquick Gel Extraction Kit	Qiagen	28704	
BbSI	New England BioLabs	R0539S	
APEX 2.0 X Taq Red Master Mix Kit	Genessee Scientific	42-138	
Puromycin	Fisher scientific	BP2956100	
50 mL polypropylene conical tubes	Fisher scientific	1495949A	
15 mL polypropylene conical tubes	Fisher scientific	1495970C	