

Materials List for:

# Lentiviral CRISPR/Cas9-Mediated Genome Editing for the Study of Hematopoietic Cells in Disease Models

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URL: <https://www.jove.com/video/59977>

DOI: [doi:10.3791/59977](https://doi.org/10.3791/59977)

## Materials

Name	Company	Catalog Number	Comments
RPMI Medium 1640 (1X)	Gibco	11875-093	Medium
Sulfamethoxazole and Trimethoprim injection	TEVA	0703-9526-01	
1/2 cc LO-DOSE INSULIN SYRINGE	EXELINT	26028	general supply
293T cells	ATCC	CRL-3216--	Cell line
APC-anti-mouse Ly6C (Clone AL-21)	BD Biosciences	560599	Antibodies
APC-Cy7-anti-mouse CD45R (RA3-6B2)	BD Biosciences	552094	Antibodies
BD Luer-Lok disposable syringes, 10 ml	BD	309604	general supply
BD Microtainer blood collection tubes, K2EDTA added	BD Bioscience	365974	general supply
BD Precisionslide needle, 18 G	BD	305195	general supply
BD Precisionslide needle, 22 G	BD	305155	general supply
BV510-anti-mouse CD8a (Clone 53-6.7)	Biolegend	100752	Antibodies
BV711-anti-mouse CD3e (Clone 145-2C11)	Biolegend	100349	Antibodies
Collagen from calf skin	Sigma-Aldrich	9007-34-5	general supply
Corning Costar Ultra-Low Attachment Multiple Well Plate, 6 well	Millipore Sigma	CLS3471	general supply
CRISPR/Cas9 knock-in mice	The Jackson Laboratory	028555	mouse
DietGel 76A	Clear H <sub>2</sub> O	70-01-5022	general supply
Dulbecco's Modified Eagle's Medium (DMEM) - high glucose	Sigma Aldrich	D6429	Medium
eBioscience 1X RBC Lysis Buffer	Thermo fisher Scientific	00-4333-57	Solution
Falcon 100 mm TC-Treated Cell Culture Dish	Life Sciences	353003	general supply
Falcon 5 mL round bottom polystyrene test tube	Life Sciences	352054	general supply
Falcon 50 mL Conical Centrifuge Tubes	Fisher Scientific	352098	general supply
Falcon 6 Well Clear Flat Bottom TC-Treated Multiwell Cell Culture Plate	Life Science	353046	general supply
Fisherbrand microhematocrit capillary tubes	Thermo Fisher Scientific	22-362566	general supply

Fisherbrand sterile cell strainers, 70 µm	Fisher Scientific	22363548	general supply
FITC-anti-mouse CD4 (Clone RM4-5)	Invitrogen	11-0042-85	Antibodies
Fixation Buffer	BD Bioscience	554655	Solution
Guide-it Compete sgRNA Screening Systems	Clontech	632636	Kit
Isothesia (Isoflurane) solution	Henry Schein	29404	Solution
Lenti-X qRT-PCR Titration Kit	Takara	631235	Kit
Lineage Cell Depletion Kit, mouse	Miltenyi Biotec	130-090-858	Kit
Millex-HV Syringe Filter Unit, 0.45 mm	Millipore Sigma	SLHV004SL	general supply
PBS pH7.4 (1X)	Gibco	10010023	Solution
PE-Cy7-anti-mouse CD115 (Clone AFS98)	eBioscience	25-1152-82	Antibodies
PEI MAX	Polysciences	24765-1	Solution
Penicillin-Streptomycin Mixture	Lonza	17-602F	Solution
PerCP-Cy5.5-anti-mouse Ly6G (Clone 1A8)	BD Biosciences	560602	Antibodies
pLKO5.sgRNA.EFS.tRFP	Addgene	57823	Plasmid
pMG2D	Addgene	12259	Plasmid
Polybrene Infection/Transfection Reagent	Sigma Aldrich	TR-1003-G	Solution
Polypropylene Centrifuge Tubes	BECKMAN COULTER	326823	general supply
psPAX2	Addgene	12260	Plasmid
RadDisk – Rodent Irradiator Disk	Braintree Scientific	IRD-P M	general supply
Recombinant Murine SCF	Peprotech	250-03	Solution
Recombinant Murine TPO	Peprotech	315-14	Solution
StemSpan SFEM	STEMCELL Technologies	09600	Solution
TOPO TA cloning kit for sequencing with One Shot TOP10 Chemically Competent E.coli	Thermo fisher Scientific	K457501	Kit
Zombie Aqua Fixable Viability Kit	BioLegend	423102	Solution