

Materials List for

Genome Engineering of Primary Human B Cells Using CRISPR/Cas9

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jove.com/video/61855

Materials

Name	Company	Catalog Number	Comments
Alt-R S.p. Cas9 Nuclease V3 protein, 500 ug	IDT	1081059	smaller size is also available
Amaxa P3 primary cell 4D-Nucleofector X Kit S (32 RCT)	Lonza	V4XP-3032	
Ammonium-chloride-potassium (ACK) lysing buffer	Quality Biological	118-156-101	
CleanCap chemically modified Cas9 mRNA	Trilink Biotechnology	L-7206-1000	
CpG ODN 2006 (ODN 7909) 5 mg	Invivogen	TLRL-2006-5	different sizes available
Cryostor CS10, 100 mL	STEMCELL Technology	7930	
CTS Immune Cell SR	Thermo Fisher Scientific	A2596101	
EasySep human B cells isolation kit	STEMCELL Technology	17954	
eBioscience fixable viability dye eFlour 780	eBiosciences	65-0865-14	
Excellerate B cell media, Xeno-free	R&D Systems	CCM031	B-cell basal medium
Falcon 14 mL Polypropylene Round-bottom Tube	Corning	352059	
Fetal Bovine Serum (FBS)	R&D Systems	S11550	For thawing B cells only
Ficoll-Paque Plus	GE Healthcare	17-1440-03	
GeneMate SnapStrip® 8-Strip 0.2 mL PCR Tubes with Individual Attached Dome Caps	BioExpress	T-3035-1 / 490003-692	
Hyclone 0.0067M PBS (No Ca, No Mg) or 1x PBS	GE lifesciences	SH30256.01	
Lonza 4D Nucleofector core unit	Lonza	AAF-1002B	
Lonza 4D Nucleofector X unit	Lonza	AAF-1002X	
Mega CD40 Ligand	Enzo Life Sciences	ALX-522-110-C010	
Mr. Frosty	Sigma-Aldrich	C1562-1EA	For freezing cells
Pen/Strep 100X	Sigma-Aldrich	TMS-AB2-C	

PerCP anti-human CD19 clone HIB19	biolegend	302228	smaller size is also available
rAAV6 SA-GFP pakaging (with our SA-GFP cassette see Figure 4.)	Vigene Biosciences	N/A	large scale packaging, 1e13 GC/mL, 500 mL
Recombinant human IL-10 protein 250 ug	R&D Systems	217-IL-250	different sizes available
Recombinant human IL-15 protein 25 ug	R&D Systems	247-ILB-025	different sizes available
The Big Easy EasySep Magnet	STEMCELL Technology	18001	different sizes available
Tris-EDTA (TE) buffer	Fisher Scientific	BP2476100	