

Materials List for:

# Generation of Knock-out Primary and Expanded Human NK Cells Using Cas9 Ribonucleoproteins

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URL: <https://www.jove.com/video/58237>

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## Materials

Name	Company	Catalog Number	Comments
RosetteSep™ Human NK Cell Enrichment Cocktail	STEMCELL Technologies	15065	The RosetteSep™ Human NK Cell Enrichment Cocktail is designed to isolate NK cells from whole blood by negative selection.
Ficoll-Paque® PLUS	GE Healthcare - Life Sciences	17-1440-02	
Alt-R® CRISPR-Cas9 tracrRNA	Integrated DNA Technologies	1072532	TracrRNA that contains proprietary chemical modifications conferring increased nuclease resistance. Hybridizes to crRNA to activate the Cas9 enzyme
Alt-R® CRISPR-Cas9 crRNA	Integrated DNA Technologies		Synthetically produced as Alt-R® CRISPR-Cas9 crRNA, based on the sequence of designed gRNA targeting the gene of interest
Alt-R® Genome Editing Detection Kit	Integrated DNA Technologies	1075931	Each kit contains T7EI endonuclease, T7EI reaction buffer, and T7EI assay controls.
Platinum® Taq DNA Polymerase High Fidelity	Invitrogen	11304-011	
4D-Nucleofector™ System	Lonza	AAF-1002B	
Human recombinant IL-2 Protein	Novartis	65483-0116-07	
P3 Primary Cell 4D-Nucleofector™ X Kit	Lonza	V4XP-3032	Contains pmaxGFP™ Vector, Nucleofector™ Solution, Supplement, 16-well Nucleocuvette™ Strips
Non-targeting: Custom siRNA, Standard 0.05 2mol ON-TARGETplus	Dharmacon	CTM-360019	
Alt-R® S.p. Cas9 Nuclease 3NLS	Integrated DNA Technologies	1074181	Cas9 Nuclease
DNeasy® Blood & Tissue Handbook	Qiagen	69504	
RNeasy Mini Kit	Qiagen	74104	
Calcein AM	ThermoFisher	C3099	
TGFβ	Biolegend	580706	
Alt-R® CRISPR-Cas9 Control Kit, Human	Integrated DNA Technologies	1072554	Includes tracrRNA, HPRT positive control crRNA, negative control crRNA#1, HPRT Primer Mix, and Nuclease-Free Duplex Buffer.
IDTE pH 7.5 (1X TE Solution)	Integrated DNA Technologies	11-01-02-02	

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Alt-R® Cas9 Electroporation Enhancer	Integrated DNA Technologies	1075915	Cas9 Electroporation Enhancer
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