

Materials List for:

Using CRISPR/Cas9 to Knock Out GM-CSF in CAR-T Cells

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Materials

Name	Company	Catalog Number	Comments
CD3 Monoclonal Antibody (OKT3), PE, eBioscience	Invitrogen	12-0037-42	
CD3 Monoclonal Antibody (UCHT1), APC, eBioscience	Invitrogen	17-0038-42	
Choice Taq Blue Mastermix	Denville Scientific	C775Y51	
CTS (Cell Therapy Systems) Dynabeads CD3/CD28	Gibco	40203D	
CytoFLEX System B4-R2-V2	Beckman Coulter	C10343	flow cytometer
dimethyl sulfoxide	Millipore Sigma	D2650-100ML	
Dulbecco's Phosphate-Buffered Saline	Gibco	14190-144	
Dynabeads MPC-S (Magnetic Particle Concentrator)	Applied Biosystems	A13346	
Easy 50 EasySep Magnet	STEMCELL Technologies	18002	
EasySep Human T Cell Isolation Kit	STEMCELL Technologies	17951	negative selection magnetic beads; 17951RF includes tips and buffer
Fetal bovine serum	Millipore Sigma	F8067	
FITC Mouse Anti-Human CD107a	BD Pharmingen	555800	
Fixation Medium (Medium A)	Invitrogen	GAS001S100	
GenCRISPR gRNA Construct: Name: CSF2 CRISPR guide RNA 1; Species: Human, Vector: pLentiCRISPR v2; Resistance: Ampicillin; Copy number: High; Plasmid preparation: Standard delivery: 4 µg (Free of charge)	GenScript	N/A	custom order
Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 647	Invitrogen	A-21235	
https://tide.nki.nl	Desktop Genetics		
Human AB Serum; Male Donors; type AB; US	Corning	35-060-CI	
IFN gamma Monoclonal Antibody (4S.B3), APC-eFluor 780, eBioscience	Invitrogen	47-7319-42	
Lipofectamine 3000 Transfection Reagent	Invitrogen	L3000075	
LIVE/DEAD Fixable Aqua Dead Cell Stain Kit, for 405 nm excitation	Invitrogen	L34966	

Lymphoprep	STEMCELL Technologies	07851	
Monensin Solution, 1000X	BioLegend	420701	
Mouse Anti-Human CD28 Clone CD28.2	BD Pharmingen	559770	
Mouse Anti-Human CD49d Clone 9F10	BD Pharmingen	561892	
Mouse Anti-Human MIP-1 β PE-Cy7	BD Pharmingen	560687	
Mr. Frosty Freezing Container	Thermo Scientific	5100-0001	
NALM6, clone G5	ATCC	CRL-3273	acute lymphoblastic leukemia cell line
Nuclease Free Water	Promega	P119C	
Olympus Vacuum Filter Systems, 500 mL, PES Membrane, 0.22 μ M, sterile	Genesee Scientific	25-227	
Nalgene Rapid-Flow Sterile Disposable Filter Units with CN Membrane 0.45 μ M	Thermo Scientific Nalgene	450-0045	
Opti-MEM I Reduced-Serum Medium (1X), Liquid	Gibco	31985-070	
PE-CF594 Mouse Anti-Human IL-2	BD Horizon	562384	
Penicillin-Streptomycin-Glutamine (100X), Liquid	Gibco	10378-016	
Permeabilization Medium (Medium B)	Invitrogen	GAS002S100	
PureLink Genomic DNA Mini Kit	Invitrogen	K182001	
Puromycin Dihydrochloride	MP Biomedicals, Inc.	0210055210	
QIAquick Gel Extraction Kit	QIAGEN	28704	
Rat Anti-Human GM-CSF BV421	BD Horizon	562930	
RoboSep-S	STEMCELL Technologies	21000	Fully Automated Cell Separator
SepMate-50 (IVD)	STEMCELL Technologies	85450	
Sodium Azide, 5% (w/v)	Ricca Chemical	7144.8-16	
X-VIVO 15 Serum-free Hematopoietic Cell Medium	Lonza	04-418Q	