

Materials List for:

Assessing Somatic Hypermutation in Ramos B Cells after Overexpression or Knockdown of Specific Genes

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URL: <https://www.jove.com/video/3573>

DOI: [doi:10.3791/3573](https://doi.org/10.3791/3573)

Materials

Name	Company	Catalog Number	Comments
<i>Suggested reagents - most of these may be substituted with similar products from other vendors.</i>			
6-well clear TC-treated plates	Corning	3516	
10 mL BD Luer-Loksyringes	BD Biosciences	309604	
24-well clear TC-treated plates	Corning	3526	
96-well clear flat bottom polystyrene TC-treated microplates	Corning	3596	
100 mm TC-treated culture dishes	Corning	430167	
Acrodisc syringe filters, 0.45 µm	Pall Corporation	4604	
Agar	TEKnova, Inc.	A7777	
Agarose	GeneMate	E-3120-500	
Ampicillin	Sigma-Aldrich	A0166	100 mg/mL in water
BD FACSCanto II flow cytometer	BD Biosciences		or similar
BD Falcon round bottom polystyrene tubes	BD Biosciences	352054	for FACS
BOSC 23 cells	ATCC	CRL-11270	
CO ₂ incubator capable of 37°C			
DMEM (Dulbecco's modified Eagle's medium)	Sigma-Aldrich	D6429	
FBS (fetal bovine serum)	Gemini Bio Products	100-106	
FITC α-rat CD90/mouse CD90.1 antibody	BioLegend	202503	FITC α-Thy1.1
FuGENE 6 Transfection Reagent	Roche Group	11814443001	
HEPES buffer solution	Invitrogen	15630-080	
KAPA HiFi DNA polymerase	KAPA Biosystems	KK2101	
LB Broth (lysogeny broth - Luria) Powder	Difco Laboratories	240230	
MISSION TRC shRNA bacterial glycerol stock	Sigma-Aldrich		shRNA vectors
NCS (newborn calf serum)	Gemini Bio Products	100-504	
PBS (phosphate buffered solution)	Invitrogen	70011	diluted to 1x in water
PE α-human IgM antibody	BioLegend	314508	
PGS (penicillin-streptomycin-glutamine solution)	Gemini Bio Products	400-110	
Polybrene (hexadimethrine bromide)	Sigma-Aldrich	107689	10 mg/mL in water
PureYield Plasmid Midiprep System	Promega Corp.	A2495	
Puromycin	Sigma-Aldrich	P8833	250 µg/mL in water

QIAquick gel extraction kit	Qiagen	28706	
Ramos (RA 1) cells	ATCC	CRL-1596	
RPML-1640 medium	Sigma-Aldrich	R8758	
SuperScript II	Invitrogen	18064-022	
SYBR FAST qPCR kit	KAPA Biosystems	KK4601	
Taq DNA Polymerase	Invitrogen	18038-042	
TOPO TA Cloning kit	Invitrogen	K4520-01	
TRIzol	Invitrogen	15596-026	
Wizard SV Genomic DNA purification system	Promega Corp.	A2361	
X-Gal [5-bromo-4-chloro-3-indoyl- β -D-galactopyranoside]	Growcells	C-5687	40 mg/mL in DMSO