

Materials List for:

# Investigation of the Transcriptional Role of a *RUNX1* Intronic Silencer by CRISPR/Cas9 Ribonucleoprotein in Acute Myeloid Leukemia Cells

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URL: <https://www.jove.com/video/60130>

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## Materials

Name	Company	Catalog Number	Comments
0.2 cm gap electroporation cuvette	Bio-Rad	1652086	
1×TE buffer, pH 7.5	Integrated DNA Technologies	11-01-02-02	
10 mM dNTP mix	Thermo Fisher Scientific	18427013	
3500 Genetic Analyzer	Thermo Fisher Scientific	4405673	
6-FAM-labeled fluorescent PCR forward primer	Thermo Fisher Scientific	None	
7300 Real-Time PCR System	Thermo Fisher Scientific	None	
7300 System SDS Software	Thermo Fisher Scientific	None	Version 1.3.1
Bio-Rad Gene Pulser Xcell system	Bio-Rad	1652660	
ChargeSwitch Direct gDNA Purification Kit, 96-well	Thermo Fisher Scientific	CS11205	
crRNA-1	Integrated DNA Technologies	Alt-R CRISPR-Cas9 crRNA	Components of the Cas9/gRNA complex
crRNA-2	Integrated DNA Technologies	Alt-R CRISPR-Cas9 crRNA	Components of the Cas9/gRNA complex
Deionized formamide	Thermo Fisher Scientific	4311320	
Electroporation Enhancer	Integrated DNA Technologies	1075915	
Fetal bovine serum	Thermo Fisher Scientific	10270098	
Fluorometer	Thermo Fisher Scientific	Q32857	
GeneMapper Software 5	Thermo Fisher Scientific	4475073	
GeneScan 600 LIZ Size Standard	Thermo Fisher Scientific	4408399	
GlutaMAX	Thermo Fisher Scientific	35050061	
PBS, 10x Solution, pH 7.4	Affymetrix	75889	
Penicillin and streptomycin	Thermo Fisher Scientific	15140122	
Platinum Taq DNA Polymerase High Fidelity	Thermo Fisher Scientific	11304029	
Qubit dsDNA HS Assay Kit	Thermo Fisher Scientific	Q32854	
Recombinant <i>S. pyogenes</i> Cas9 nuclease	Integrated DNA Technologies	1081058	Components of the Cas9/gRNA complex
RPMI 1640 medium	Thermo Fisher Scientific	31800-022	
RPMI 1640 medium without phenol red	Thermo Fisher Scientific	11835030	
RUNX1a TaqMan gene expression assays	Thermo Fisher Scientific	4331182	Hs04186042_m1

RUNX1b/c TaqMan gene expression assays	Thermo Fisher Scientific	4331182	Hs00231079_m1
RUNX1c TaqMan gene expression assays	Thermo Fisher Scientific	4331182	Hs01021966_m1
SuperScript III First-Strand Synthesis System	Thermo Fisher Scientific	18080051	
TaqMan Universal PCR Master Mix	Thermo Fisher Scientific	4304437	
tracrRNA	Integrated DNA Technologies	1072533	Components of the Cas9/gRNA complex
TRIzol Reagent	Thermo Fisher Scientific	15596018	
Unlabeled PCR reverse primer	Thermo Fisher Scientific	None	