

Materials List for

# Reporter Gene Repression Assay to Study Translational Regulation of a Target Gene

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URL: <https://www.jove.com/video/21435>

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## Materials

Name	Company	Catalog Number	Comments
Ampicillin sodium salt	SIGMA	A9518	
Magnesium sulfate (MgSO <sub>4</sub> )	ALFA AESAR	33337	
48 plates	Axygen	P-5ML-48-C-S	
8-lane plates	Axygen	RESMW8I	
96-well plates	Axygen	P-DW-20-C	
96-well plates for plate reader	Perkin Elmer	6005029	
ApaLI	NEB	R0507	
Binding site sequences	Gen9 Inc. and Twist Bioscience		see Table 1
<i>E. coli</i> TOP10 cells	Invitrogen	C404006	
EagI-HF	NEB	R3505	
Glycerol	BIO LAB	71205	
Incubator	TECAN	Liconic incubator	
Kanamycin sulfate	SIGMA	K4000	
KpnI- HF	NEB	R0142	
Ligase	NEB	B0202S	
Liquid-handling robotic system	TECAN	EVO 100, MCA 96-channel	
MATLAB analysis software	Mathworks		
Multi-pipette 8 lanes	Axygen	BR703710	
N-butanoyl-L-homoserine lactone (C <sub>4</sub> -HSL)	Cayman	K40982552 019	
PBS buffer	Biological Industries	020235A	
Plate reader	TECAN	Infinite F200 PRO	
Q5 HotStart Polymerase	NEB	M0493	
RBP sequences	Addgene	27121 & 40650	see Table 2
Sodium Chloride (NaCl)	BIO LAB	190305	
SV Gel and PCR Clean-Up System	Promega	A9281	
Tryptone	BD	211705	