

Materials List for:

# Cell Based Assays of SINEUP Non-coding RNAs That Can Specifically Enhance mRNA Translation

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URL: <https://www.jove.com/video/58627>

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## Materials

Name	Company	Catalog Number	Comments
Synthetic SINEUP	Cell Guidance Systems Ltd. in UK and K.K.DNAFORM in Japan	<a href="https://www.cellgs.com/items/sineupand8482.html">https://www.cellgs.com/items/sineupand8482.html</a> and <a href="https://www.dnaform.jp/en/information/20130320">https://www.dnaform.jp/en/information/20130320</a>	Step 1.5
HEK293T/17	ATCC	ATCC CRL-11268	Step 2.1
Falcon Multiwell Plate For Cell Culture 6 well plate	Corning	6902A01	Step 2.1
Corning BioCoat Poly-D-Lysine 24 well Plate	Corning	08-774-124	Step 2.1
Lipofectamine 2000 Transfection Reagent	Thermo Fisher Scientific	11668027	Step 2.2
pEGFP-C2	Clontech	#6083-1	Step 2.2
Cell Lysis Buffer (10x)	Cell Signaling Technology	#9803S	Step 3.1 This is pre-mixed cell lysis solution.
PMSF	Cell Signaling Technology	#8553S	Step 3.1 To complete cell lysis buffer, add 0.005% (w/v) PMSF to 1x cell lysis buffer.
DC protein assay kit II	BIO RAD	#5000112JA	Step 3.3
10% Mini-PROTEAN TGX Precast Protein Gels, 12-well, 20 µL	BIO RAD	#4561035	Step 4.2
Amersham Protran Premium NC 0.45 (150 mm×4 m)	Amersham	10600013	Step 4.3, This is a 0.45 µm nitrocellulose membrane.
Nonfat Dry Milk	Cell Signaling Technology	#9999S	Step 4.4 A component of the blocking solution.
GFP Tag Antibody	Thermo Fisher Scientific	A-6455	Step 4.5 Lot number: 1495850, RRID: AB_221570
Monoclonal Anti-β-Actin antibody produced in mouse	SIGMA	A5441	Step 4.5 Lot number: 026M4780V, RRID: AB_476744
Polyclonal Goat Anti Rabbit Immunoglobulins	Dako	P0448	Step 4.5 This is secondary antibody conjugating with HRP for anti GFP antibody. Lot number: 20017525, RRID:AB_2617138
Polyclonal Goat Anti mouse Immunoglobulins	Dako	P0447	Step 4.5 This is secondary antibody conjugating with HRP for anti β-Actin antibody. Lot number: 20019698, RRID:AB_2617137
ECL Western Blotting Detection Reagents	Amersham	RPN2109	Step 4.9

Maxwell Rapid Sample Concentrator (RSC) Instrument	Promega	AS4500	Step 5.1 This is commercially available RNA extraction instrument.
Maxwell RSC simplyRNA Cells Kit	Promega	AS1390	Step 5.1 This is commercially available RNA extraction kit.
TURBO DNA-free Kit	ambion	AM1907	Step 5.2 and 5.4 The kit contains DNase, DNase buffer and inactivation reagent.
PrimeScrip 1st strand cDNA Synthesis Kit	TaKaRa	6110A	Step 6.1 The kit contains reagents of first strand cDNA synthesis.
TB Green Premix Ex Taq II	TaKaRa	RR820A	Step 6.2
Hoechst3342	Thermo Fisher Scientific	H3570	Step 7.2
Celigo S	Nexcelom Bioscience	200-BFFL-S	Step 7.3 This is a high throughput micro-well image cytometer.