

Materials List for:

Efficient Transcriptionally Controlled Plasmid Expression System for Investigation of the Stability of mRNA Transcripts in Primary Alveolar Epithelial Cells

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URL: <https://www.jove.com/video/60654>

DOI: [doi:10.3791/60654](https://doi.org/10.3791/60654)

Materials

Name	Company	Catalog Number	Comments
Actinomycin D	Sigma-Aldrich	A9415	
Ampicillin	Sigma-Aldrich	A1593	
Bright-Line Hemacytometer	Sigma-Aldrich	Z359629	
Chloroform - Molecular biology grade	Sigma-Aldrich	C2432	
Clal	New England Biolabs	R0197S	
Cycloheximide	Sigma-Aldrich	C7698	
DM IL LED Inverted Microscope with Phase Contrast	Leica	-	
DNase I, Amplification Grade	Invitrogen	18068015	
Doxycycline hyclate	Sigma-Aldrich	D9891-1G	
Dulbecco's Phosphate-buffered Saline (D-PBS), without calcium and magnesium	Wisent Bioproducts	311-425-CL	
Ethanol - Molecular biology grade	Fisher Scientific	BP2818100	
Excella E25 Console Incubator Shaker	Eppendorf	1220G76	
Glycerol	Sigma-Aldrich	G5516	
HEPES pH 7.3	Sigma-Aldrich	H3784	
Heracell 240i	ThermoFisher Scientific	51026420	
iScript cDNA Synthesis Kit	Bio-Rad Laboratories	1708890	
Isopropanol - Molecular biology grade	Sigma-Aldrich	I9516	
LB Broth (Lennox)	Sigma-Aldrich	L3022	
LB Broth with agar (Lennox)	Sigma-Aldrich	L2897	
L-glutamine	Sigma-Aldrich	G7513	
Lipopolysaccharides from <i>Pseudomonas aeruginosa</i> 10	Sigma-Aldrich	L9143	
MEM, powder	Gibco	61100103	
MicroAmp Optical 96-Well Reaction Plate	Applied Biosystems	N8010560	
MicroAmp Optical Adhesive Film	Applied Biosystems	4360954	
MSC-Advantage Class II Biological Safety Cabinets	ThermoFisher Scientific	51025413	

Mupid-exU electrophoresis system	Takara Bio	AD140	
NanoDrop 2000c	ThermoFisher Scientific	ND-2000	
Neon Transfection System 10 µL Kit	Invitrogen	MPK1025	
Neon Transfection System Starter Pack	Invitrogen	MPK5000S	
NheI	New England Biolabs	R0131S	
One Shot OmniMAX 2 T1RChemically CompetentE. coli	Invitrogen	C854003	
pcDNA3 vector	ThermoFisher Scientific	V790-20	
pcDNA3-EGFP plasmid	Addgene	13031	
PlatinumTaqDNA Polymerase High Fidelity	Invitrogen	11304011	
pTet-Off Advanced vector	Takara Bio	631070	
pTRE-Tight vector	Takara Bio	631059	
Purified alveolar epithelial cells	n.a.	n.a.	
QIAEX II Gel Extraction Kit	QIAGEN	20021	
QIAGEN Plasmid Maxi Kit	QIAGEN	12162	
QIAprep Spin Miniprep Kit	QIAGEN	27104	
QuantStudio 6 and 7 Flex Real-Time PCR System Software	Applied Biosystems	n.a.	
QuantStudio 6 Flex Real-Time PCR System, 96-well Fast	Applied Biosystems	4485697	
Recombinant Rat TNF-alpha Protein	R&D Systems	510-RT-010	
Septra	Sigma-Aldrich	A2487	
Shrimp Alkaline Phosphatase (rSAP)	New England Biolabs	M0371S	
Sodium bicarbonate	Sigma-Aldrich	S5761	
SsoAdvanced Universal SYBR Green Supermix	Bio-Rad Laboratories	1725270	
SuperScript IV Reverse Transcriptase	Invitrogen	18090010	
T4 DNA Ligase	ThermoFisher Scientific	EL0011	
Tet System Approved FBS	Takara Bio	631367	
Tobramycin	Sigma-Aldrich	T4014	
TRizol Reagent	Invitrogen	15596018	
Trypsin-EDTA (0.05%), phenol red	Gibco	25300054	
UltraPure Agarose	Invitrogen	16500500	
Water, Molecular biology Grade	Wisent Bioproducts	809-115-EL	