

Materials List for:

Stimulation of Cytoplasmic DNA Sensing Pathways *In Vitro* and *In Vivo*

Chih Hung Ku¹, Brian J. Ferguson¹

¹Department of Pathology, University of Cambridge

Correspondence to: Brian J. Ferguson at bf234@cam.ac.uk

URL: <https://www.jove.com/video/51593>

DOI: [doi:10.3791/51593](https://doi.org/10.3791/51593)

Materials

Name	Company	Catalog Number	Comments
Forward primer	Integrated DNA Technologies	n/a	TACAGATCTACTAGTGATCTATGACTGATCTGTACATGATCTACA
Reverse primer	Integrated DNA Technologies	n/a	TGTAGATCATGTACAGATCAGTCATAGATCACTAGTAGATCTGTA
PEG8000	Sigma-Aldrich	P-4463	
Molecular biology grade water	Sigma-Aldrich	W4502-1L	
T4 polynucleotide kinase	Promega	M4101	
T4 DNA ligase	Promega	M1801	
Phenol:chloroform	Fisher Chemical	BPE1752p-400	
Chloroform	Fisher Chemical	C/4960/PB08	
Ethanol	Sigma-Aldrich	32221-2.5L	
DNA gel loading buffer	New England Biolabs	B7021S	
Agarose	Bioline	BIO-41025	
Optimem	Life Technologies	11058021	
TransIT-LT1	Mirus Bioscience	MIR 2300	
Hamilton syringe	Hamilton	80901 Model 1705	
30 G needles	BD Bioscience	304000	
SYBR Safe DNA gel stain	Life Technologies	S33102	
Rneasy Plus Mini Kit	Qiagen	74134	
Oligo(dT) primer	Thermo Scientific	SO131	
dNTP mix	Fermentas	R0192	
Super Script III reverse transcriptase	Life Technologies	56575	
First strand cDNA synthesis buffer	Life Technologies	y02321	
SybrGreen qPCR Fast master mix	Applied Biosystems	4385612	
cxcl10 murine forward primer	Integrated DNA Technologies	n/a	ACTGCATCCATATCGATGAC
cxcl10 murine reverse primer	Integrated DNA Technologies	n/a	TTCATCGTGGCAATGATCTC
il6 murine forward primer	Integrated DNA Technologies	n/a	GTAGCTATGGTACTCCAGAAGAC
il6 murine forward primer	Integrated DNA Technologies	n/a	GTAGCTATGGTACTCCAGAAGAC