

Materials List for:

Massively Parallel Reporter Assays in Cultured Mammalian Cells

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Materials

Name	Company	Catalog Number	Comments
Oligonucleotide library synthesis	Agilent, CustomArray, or other OLS vendors	custom	If using OLS construction method
pMPRA1	Addgene	49349	MPRA plasmid backbone
pMPRAdonor1	Addgene	49352	luc2 ORF donor plasmid
TE 0.1 Buffer (10 mM Tris-HCl, 0.1 mM EDTA, pH 8.0)	Generic	n/a	OLS buffer
Novex TBE-Urea Gels, 10%	Life Technologies	EC6875BOX	PAGE purification of OLS products
Novex TBA-Urea Sample Buffer	Life Technologies	LC6876	PAGE purification of OLS products
SYBR Gold Nucleic Acid Gel Stain	Life Technologies	S-11494	PAGE purification of OLS products
Micellula DNA Emulsion & Purification Kit	EURx/CHIMERx	3600-01	Library amplification by emulsion PCR
Herculase II Fusion DNA Polymerase	Agilent	600675	Polymerase for emulsion PCR
SfiI	New England Biolabs	R0123S	Library cloning with pMPRA vectors
KpnI-HF	New England Biolabs	R3142S	Library cloning with pMPRA vectors
XbaI	New England Biolabs	R0145S	Library cloning with pMPRA vectors
T4 DNA Ligase (2,000,000 units/ml)	New England Biolabs	M0202T	Library cloning with pMPRA vectors
One Shot TOP10 Electrocomp <i>E. coli</i>	Life Technologies	C4040-50	Library cloning with pMPRA vectors
LB agar and liquid media with carbenicillin	Generic	n/a	Growth media for cloning
E-Gel EX Gels 1%	Life Technologies	G4010-01	Library verification and purification
E-Gel EX Gels, 2%	Life Technologies	G4010-02	Library verification and purification
MinElute Gel Extraction Kit	Qiagen	28604	Library and backbone purification
EndoFree Plasmid Maxi Kit	Qiagen	12362	Library DNA isolation
Cell culture media	n/a	n/a	Experiment-specific
Transfection reagents	n/a	n/a	Experiment-specific
MicroPoly(A)Purist Kit	Life Technologies	AM1919	mRNA isolation
TURBO DNA-free Kit	Life Technologies	AM1907	Plasmid DNA removal
SuperScript III First-Strand Synthesis System	Life Technologies	18080-051	cDNA synthesis
PfuUltra II Hotstart PCR Master Mix	Agilent	600850	Polymerase for Tag-Seq PCR
Primers (see text)	IDT	custom	PAGE purify Tag-Seq primers