

Materials List for:

Rapid Synthesis and Screening of Chemically Activated Transcription Factors with GFP-based Reporters

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URL: <https://www.jove.com/video/51153>

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Materials

Name	Company	Catalog Number	Comments
Name of the Reagent	Company	Catalogue Number	Comments
Expand High Fidelity PCR System	Roche	11 732 650 001	
T4 DNA Ligase	NEB	M0202S	
Competent <i>E. coli</i>	Life Technologies	18258-012	
Estradiol	Tocris Biosciences	2824	
Ampicillin	Fisher Scientific	BP1760-5	
T4 Polynucleotide Kinase	NEB	M0201	
PBS	Life Technologies	10010-23	
Tween-20	Sigma-Aldrich	9005-64-5	
clonNAT	Jena Bioscience	AB-102L	
XbaI	NEB	R0145S	
NotI-HF	NEB	R3189S	
CutSmart Buffer	NEB	B7204S	
Glucose	Fisher Scientific	D15-500	
Bacto-Peptone	BD Biosciences	211677	
Yeast Extract	BD Biosciences	210929	
Agarose	BD Biosciences	214010	
100% Ethanol	Decon Laboratories	04-355-222	
G418	Life Technologies	11811-031	
QIAprep Spin Miniprep Kit	QIAGEN	27104	
Lithium acetate dihydrate	Sigma-Aldrich	L-6883	
Salmon sperm DNA	Sigma-Aldrich	93283	
PEG 3350	Sigma-Aldrich	P-3640	
Plasmids pMN8 and pMN10; yeast strain yMN15	Noyes or Botstein labs		
Luria Broth	Sigma-Aldrich	L3397	
EQUIPMENT:			
LSRII Flow Cytometer	BD Biosciences	Various Models	
MATLAB or FlowJo	MATLAB or FlowJo		Software for analyzing .FCS files from flow cytometry experiments
R	Open Source		For analyzing growth-rate data from plate reader.

Falcon Tubes	BD Biosciences	352052	
1.7 ml Eppendorf Tubes	GeneMate	C3262-1	
250 ml Shake Flasks	Corning	4446-250	
96-well, flat-bottom plates	Costar	3635	
Plate Reader (Synergy H1 Multi-Mode Plate Reader)	BioTek	H1MG	
Breathe-Easy Membranes	Sigma-Aldrich	Z380059-1PAK	
Thermocycler	various companies	Various models	
SC-Ura powder	MP Biomedicals	114410622	
5-FOA	Zymo Research	F9001-1	