

Materials List for

# Generation of Brown Fat-Specific Knockout Mice Using a Combined Cre-LoxP, CRISPR-Cas9, and Adeno-Associated Virus Single-Guide RNA System

Tadataka Tsuji<sup>1</sup>, Yang Zhang<sup>1</sup>, Yu-Hua Tseng<sup>1</sup>

<sup>1</sup>Section on Integrative Physiology and Metabolism, Research Division, Joslin Diabetes Center, Harvard Medical School

## Corresponding Author

Yu-Hua Tseng

yu-hua.tseng@joslin.harvard.edu

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jove.com/video/65083

## Materials

Name	Company	Catalog Number	Comments
Chemicals, Peptides and Recombinant Proteins			
OPTI-MEM serum-free medium	Invitrogen	31985	
Polybrene Infection / Transfection Reagent	Sigma	TR-1003-G	
TransIT-LT1 Transfection Reagent	Mirus	MIR 2300	
Recombinant DNA			
lentiCRISPR v2 vector	Addgene	52961	
pAAV-U6-BbsI-gRNA-CB-EmGFP	Addgene	89060	
pMD2.G envelope plasmid	Addgene	12259	
psPAX2 packaging plasmid	Addgene	12260	
Experimental Models: Cell Lines			
HEK-293 cells	ATCC	CRL-1573	
WT-1 cells	Developed in Tseng lab	PMID: 14966273	
Experimental Models: Organisms/ Strains			
Cas9 knockin mice	Jackson Laboratories	24857	
Ucp1-CRE mice	Jackson Laboratories	24670	
Others			
Banamine	Patterson	07-859-1323	
Hamilton syringe	Hamilton	Model 710 RN Syringe	
Hydrogen peroxide solution	Fisher Scientific	H325-500	
Needle	Hamilton	32 gauge, small hub RN needle, needle point style 2	
Pentobarbital	Euthasol, Virbac	NDC Code(s): 51311-050-01	
Suture 5-0 Coated Vicryl Undyed 1X27"	Ethicon	J421	

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Suture 5-0 Unify PCL25 P-3 Undyed 18" Monofilament 12/Bx	Henry Schein	1273504	
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