

Materials List for:

# Use of Freeze-thawed Embryos for High-efficiency Production of Genetically Modified Mice

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## Materials

Name	Company	Catalog Number	Comments
0.25 M Sucrose	ARK Resource Co., Ltd. (Kumamoto, Japan)	SUCROSE	
1 M DMSO	ARK Resource Co., Ltd. (Kumamoto, Japan)	1M DMSO	
Butorphanol	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)	Vetorphale 5mg	
Cas9 protein: Alt-R® S.p. HiFi Cas9 Nuclease 3NLS	Integrated DNA Technologies, Inc. (Coralville, IA)	1081060	
C57BL/6J mice	Japan SLC (Hamamatsu, Japan)	N/A	
DAP213	ARK Resource Co., Ltd. (Kumamoto, Japan)	DAP213	
FBS	Sigma-Aldrich, Inc. (St. Louis, MO)	ES-009-C	
hCG	MOCHIDA PHARMACEUTICAL CO., LTD (Tokyo, Japan)	HCG Mochida 3000	
HTF	ARK Resource Co., Ltd. (Kumamoto, Japan)	HTF	
ICR mice	Japan SLC (Hamamatsu, Japan)	N/A	
Isoflurane	Petterson Vet Supply, Inc. (Greeley, CO)	07-893-1389	
KSOM	ARK Resource Co., Ltd. (Kumamoto, Japan)	KSOM	
LN2 Tank	Chart Industries (Ball Ground, GA)	XC 34/18	
M2	ARK Resource Co., Ltd. (Kumamoto, Japan)	M2	
Medetomidine	Nippon Zenyaku Kogyo Co.,Ltd. (Koriyama, Japan)	1124401A1060	

Microscope	Nikon Co. (Tokyo, Japan)	SMZ745T	
Midazolam	Sandoz K.K. (Tokyo, Japan)	1124401A1060	
Nuclease free buffer	Integrated DNA Technologies, Inc. (Coralville, IA)	1072570	
Nucleospin DNA extraction kit	Takara Bio Inc (Kusatsu, Japan)	740952 .5	
One-hole slide glass	Matsunami Glass Ind., Ltd. (Kishiwada, Japan)	S339929	
One-step type Electroporator	BEX Co., Ltd. (Tokyo, Japan)	CUY21EDIT II	
Paraffin Liquid	NACALAI TESQUE Inc. (Kyoto, Japan)	SP 26137-85	
Platinum plate electrode	BEX Co., Ltd. (Tokyo, Japan)	LF501PT1-10, GE-101	
PMSG	ASKA Animal Health Co., Ltd (Tokyo, Japan)	SEROTROPIN 1000	
Povidone iodide	Professional Disposables International, Inc. (Orangeburg, NY)	C12400	
Reduced-Serum Minimal Essential Medium: OptiMEM I	Sigma-Aldrich, Inc. (St. Louis, MO)	22600134	
Two-step type Electroporator	Nepa Gene Co., Ltd. (Ichikawa, Japan)	NEPA21	