

Materials List for:

Constitutive and Inducible Systems for Genetic *In Vivo* Modification of Mouse Hepatocytes Using Hydrodynamic Tail Vein Injection

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Materials

Name	Company	Catalog Number	Comments
General Material			
GeneRuler 1 kb Plus DNA Ladder	Thermo Fisher	#SM1331	DNA ladder for electrophoresis
Tissue-Tek O.C.T.	Sakura	4583	embedding of cryo-sections
Biozym LE Agarose	Biozym	840004	
Ethidium bromide	Sigma-Aldrich	E7637-1G	
D(+)-Saccharose	Carl Roth	4621.1	For sweetening of the doxycycline solution
Ampicillin Sodium Salt	AppliChem	A0839,0010	For selection of Amp-resistant clones
LB Agar (Luria/Miller)	Carl Roth	X969.1	
LB Broth (Luria/Miller)	Carl Roth	X968.1	
S.O.C. Medium	Thermo Fischer	15544034	
Gentamicin sulfate	AppliChem	A1492,0001	For selection of Gentamicin-resistant clones
Roti-Histofix 4 %	Fa. Roth	P087.6	para-formaldehyde solution
T4 DNA Ligase	New England BioLabs	M0202S	
Gateway™ LR Clonase™ II Enzyme Mix	invitrogen/ThermoFisher	11791-020	contains LR-clonase enzyme mix II and proteinase K
DB3.1 Competent Cells	Thermo Fisher	11782-018	
Stbl3 Chemically Competent E. coli	Thermo Fisher	C737303	
Name	Company	Catalog Number	Comments
Restriction Enzymes			
PacI	New England BioLabs	R0547S	
Ascl	New England BioLabs	R0558S	
FseI	New England BioLabs	R0588S	
SacI	New England BioLabs	R0156S	
SpeI	New England BioLabs	R0133S	
KpnI	New England BioLabs	R0142S	
NotI	New England BioLabs	R0189S	
XhoI	New England BioLabs	R0146S	
BfuAI	New England BioLabs	R0701S	
Name	Company	Catalog Number	Comments
Kits			
QIAquick Gel Extraction Kit	Qiagen	28704	For DNA Extraction from gel

NucleoSpin Gel and PCR Clean Up	Macherey & Nagel	740609.10	
NucleoBond PC20	Macherey & Nagel	740571	Plasmid extraction (Mini prep)
NucleoBond PC500	Macherey & Nagel	740574	Plasmid extraction (Maxi prep)
Phusion High-Fidelity DNA Polymerase	Thermo Fisher	F530S	
Name	Company	Catalog Number	Comments
Materials for Mouse Experiments			
Injekt Syringe F 1 ml	Braun	9166017V	For intraperitoneal injection
Omnifix Luer 3 ml	Braun	4616025V	For intravenous injection
Sterican Cannula 24G	Braun	4657675	
Sterican Cannula 27G	Braun	4657705	
Tamoxifen	Sigma-Aldrich	T5648-1G	For CreER activation
Corn oil	Sigma-Aldrich	C8267-500ML	Carrier for tamoxifen injections
Doxycycline hyclate	AppliChem	A2951,0025	Activation of tetracycline-dependent expression
Injekt 10 ml Syringe	Braun	4606108V	
Filtropur S 0.2	Sarstedt	831,826,001	For filtration of doxycycline
NaCl 0,9%	Braun	3200905	Carrier for intravenous injections
Falcon Conical Tube 50ml	Corning Life Science	352095	
Infrared Lamp	N/A	N/A	For warming of mouse tail
IVIS	Perkin Elmer	124262	In vivo imaging system
Name	Company	Catalog Number	Comments
Plasmids for cloning of sleeping beauty-transposon vectors for HTVI.			
pTC		n/a	Vector for constitutive gene expression, ref. 15
pEN_TTmcs		Addgene #25755	Entry vector for inducible gene expression, ref. 19
pEN_TTGmiRc2		Addgene #25753	Entry vector for inducible miR-shRNA expression with co-expression of GFP, ref. 19
pEN_TTmiRc2		Addgene #25752	Entry vector for inducible miR-shRNA expression without co-expression of GFP, ref. 19
pTC ApoE-Tet		Addgene #85578	Expression vector for inducible gene or miR-shRNA expression with ApoE.HCR.hAAT promotor, ref. 11
pTC-CMV-Tet		Addgene #85577	Expression vector for inducible gene or miR-shRNA expression with CMV promotor, ref. 11