

Materials List for

Application of Mouse Parthenogenetic Haploid Embryonic Stem Cells as a Substitute of Sperm

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jove.com/video/61999

Materials

Name	Company	Catalog Number	Comments
1.5 mL Tube	Eppendorf	0030 125.150	haESC culture
15 ml Tube	Greiner Bio-One	188271	haESC culture
12-well plate	Thermo Scientific	150628	haESC culture
24-well plate	Thermo Scientific	142475	haESC culture
6-well plate	Thermo Scientific	140675	haESC culture
96-well plate	Thermo Scientific	167008	haESC culture
β-Mercaptoethanol	Merck	M6250	haESC culture
BSA fraction	Gibco	15260-037	haESC culture
CHIR 99021	Axon	1386	haESC culture
Demecolcine solution	Merck	D1925	haESC culture
DMEM	Gibco	41965-039	haESC culture
DMEM / F-12	Gibco	11320-033	haESC culture
DR4 mouse	The Jackson Laboratory	3208	haESC culture
EDTA	Merck	E5134	haESC culture
FBS	biowest	S1810-500	haESC culture
Freezing medium	amsbio	11897	haESC culture
Gelatin	Merck	G1890	haESC culture
Hepes solution	Gibco	15630-056	haESC culture
Irradiated MEF	Gibco	A34966	haESC culture
LIF (Leukemia inhibitory factor)	(Homemade)	-	haESC culture
Lipofection reagent	Invitrogen	11668019	haESC culture
NDiff 227	Takara	Y40002	haESC culture
PD 0325901	Axon	1408	haESC culture
Pen Strep	Gibco	15140-122	haESC culture
piggyBac plasmid carrying a CAG-EGFP transgene	Addgene	#40973	haESC culture
piggyBac transposase plasmid	System Biosciences	PB210PA-1	haESC culture
pX330 plasmid	Addgene	#42230	haESC culture

pX458 plasmid	Addgene	#48138	haESC culture
Trypsin	Gibco	15090-046	haESC culture
DNA polymerase	Thermo Scientific	F549S	Genotyping
dNTP Mix	Thermo Scientific	R0192	Genotyping
Ethanol	Merck	100983	Genotyping
Hydrochloric acid	Merck	100317	Genotyping
Isopropanol	Merck	109634	Genotyping
Proteinase K	Axon	A3830	Genotyping
SDS	Merck	71729	Genotyping
Sodium chloride	Merck	106404	Genotyping
ThermoMixer	Eppendorf	5384000012	Genotyping
Tris	Merck	T1503	Genotyping
5 mL Tube	Falcon	352063	Flow cytometry
5 mL Tube with cell strainer cap	Falcon	352235	Flow cytometry
Hoechst 33342	Invitrogen	H3570	Flow cytometry
MoFlo Astrios EQ	Beckman Coulter	B25982	Flow cytometry
1 mL syringe	Codan	62.1640	Superovulation
30-gauge 1/2 inch needle	Merck	Z192362-100EA	Superovulation
B6D2F1 mouse	The Jackson Laboratory	100006	Superovulation
hCG	MSD animal health	49451	Superovulation
PBS	Gibco	10010015	Superovulation
PMSG	Avivasysbio	OPPA1037 5000 IU	Superovulation
10-cm dish	Thermo Scientific	150350	Embryo manipulation
4-well plate	Thermo Scientific	179830	Embryo manipulation
50 mL tube	Greiner Bio-One	227261	Embryo manipulation
6 cm dish	Thermo Scientific	150288	Embryo manipulation
Center-well dish	Corning	3260	Embryo manipulation
Digital rocker	Thermo Scientific	88880020	Embryo manipulation
EGTA	AppliChem	A0878	Embryo manipulation
Hyaluronidase	Merck	H4272	Embryo manipulation
KSOM	Merck	MR-020P-5F	Embryo manipulation
M16 medium	Merck	M7292	Embryo manipulation
M2 medium	Merck	M7167	Embryo manipulation
Mineral oil	Merck	M8410	Embryo manipulation
Glass capillary	Merck	P1049-1PAK	Embryo manipulation
Stereomicroscope	Nikon	SMZ745	Embryo manipulation
Strontium chloride	Merck	13909	Embryo manipulation
5ml syringe	Codan	62.5607	Microinjection
Borosilicate glass capillary	Science product	GB100T-8P	Microinjection
CellTram 4r Oil	Eppendorf	5196000030	Microinjection
Fluorinert FC-770	Merck	F3556	Microinjection
Holding pipette	BioMedical Instruments	-	Microinjection
Inverted microscope	Nikon	Eclipse Ti-U	Microinjection
Microforge	Narishige	MF-900	Microinjection
Microinjection pipette	BioMedical Instruments	-	Microinjection
Microloader tips	Eppendorf	5252 956.003	Microinjection
Micromanipulator arms	Narishige	NT-88-V3	Microinjection

Micropipette puller	Sutter Instrument	P-1000	Microinjection
PiezoXpert	Eppendorf	5194000016	Microinjection
PVP (Polyvinylpyrrolidone)	Merck	PVP360	Microinjection
Syringe filter	SARSTEDT	83.1826.001	Microinjection