

Materials List for:

# Zygotic Fluorescence Recovery After Photo-bleaching Analysis for Chromatin Looseness That Allows Full-term Development

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## Materials

Name	Company	Catalog Number	Comments
Confocal laser scanning microscope	Olympus	FV1200	FV1000 can be also used for FRAP analysis (reference #7)
Thermo plate	Tokai Hit	TP-110RH26	
Inverted microscope	Olympus	IX71	
Micro manipulator	Narishige	MMO-202ND	
Pieze Micro Micromanipulator	Prime tech	PMAS-CT150	
35 mm culture dish	Falcom	351008	35 x 100 mm style; for IVF
60 mm culture dish	Falcom	351007	60 x 15 mm style; for embryo culture
50 mm culture dish	Falcom	351006	50 x 9 mm style; for manipulation on the stage
50 mm glass bottom dish	Matsunami	D910400	50 mm dish, 27 mm $\phi$ hole size; for FRAP analysis
Mineral oil	Organic speciality chemicals	625071	For FRAP analysis on the glass bottom dishes
Mineral oil	Sigma	M8410-1L	For IVF and embryo culture
glass capillary	Drummond	1-000-1000	For handling mouse zygotes
Borosilicate glass	Prime tech	B100-75-10-PT	For microinjection of mRNA
Micropipett puller	Sutter instrument	P-97/IVF	For preparation of the injection or holding neadle (out side diameter: 80 $\mu$ m, inner diameter: 10 $\mu$ m)
Microforge	Narishige	MF-900	
mMESSAGE MACHINE SP6 Transcription kit	Thermo Fisher scientific	AM1340	
Poly (A) tailing kit	Thermo Fisher scientific	AM1350	
PVP solution 10% (PVP-HTF)	IrvineSceintific	99311	HEPES buffered HTF containing 10% PVP
Sodium HEPES	Sigma	H3784	
pTOPO eGFP-H2B			Template plasmid for eGFP-H2B mRNA (reference #6)
NorthernMax Gly Sample loading Dye	Thermo Fisher scientific	AM8551	For electrophoresis of in vitro transcribed mRNA
Phenol chloroform isamyl alcohol	nacalai tesque	25970-14	
Chloroform	nacalai tesque	08401-65	
Not I	TOYOBO	NOT-111X	

Ethachinmate	WAKO	318-01793	
3664 Optical power meter	Hioki	3664	Power meter for laser power
Stereomicroscope	Olympus	SZX16	