

Materials List for:

# Chromatin Immunoprecipitation (ChIP) Protocol for Low-abundance Embryonic Samples

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## Materials

Name	Company	Catalog Number	Comments
<b>Reagent</b>			
BSA powder	Carl Roth	3737.3	
Phosphate Saline buffer (PBS)	Sigma Aldrich	D8537	
Tris-HCL pH 8.0	Sigma Aldrich	T1503	
NaCl	Carl Roth	3957.2	
EDTA	Carl Roth	8043.2	
EGTA	Carl Roth	3054.2	
Na-Deoxycholate	Sigma Aldrich	D6750-24	
N-lauroylsarcosine	Sigma Aldrich	61743-25G	
Hepes	Applichem	A3724,0250	
LiCl	Carl Roth	3739.2	
NP-40	Sigma Aldrich	I3021-100ml	
SDS	Carl Roth	1833	
Protein G/magnetic beads	Invitrogen	1004D	
37% Formaldehyde	Sigma Aldrich	252549-1L	
Glycine			
RNase	Peqlab	12-RA-03	
Proteinase K	Sigma Aldrich	46.35 E	
Na-butyrate	Sigma Aldrich	SLB2659V	
Proteinase inhibitor	Roche	5892791001	
SYBRgreen Mix	biozym	617004	
dH <sub>2</sub> O	Sigma Aldrich	W4502	
1 Kb ladder	Thermofisher	SM1333	
Orange G	Sigma Alrich	03756-25	
Agarose	Invitrogen	16500-500	
0.25% Trypsin-EDTA (1x)	Gibco	25200-072	
Octylphenol Ethoxylate (Triton X 100)	Roth	3051.4	
DMEM (Dulbecco's Modified Eagle Medium)	Gibco	31331-028	
Gel loading tips Multiflex	A.Hartenstein	GS21	
qPCR Plates	Sarstedt	721,985,202	

384 well	Sarstedt	721,985,202	
1.5 mL tubes	Sarstedt	72,706	
100 - 1,000 µL Filter tips	Sarstedt	70,762,211	
2 - 20 µL Filter tips	Sarstedt	70,760,213	
2 - 200 µL Filter tips	Sarstedt	70,760,211	
0.5 - 10 µL Filter tips	Sarstedt	701,116,210	
H3K27me3 antibody	Active Motif	39155	
H3K27ac antibody	Active Motif	39133	
H3K4me3 antibody	Active Motif	39159	
H3K4me2 antibody	Active Motif	39141	
End Repair Mix	Illumina	FC-121-4001	
Paramagnetic beads	Beckman Coulter	A63881	
Resuspension buffer	Illumina	FC-121-4001	
A-Tailing Mix	Illumina	FC-121-4001	
Ligation Mix	Illumina	FC-121-4001	
RNA Adapter Indexes	Illumina	RS-122-2101	
Stop Ligation Buffer	Illumina	FC-121-4001	
PCR Primer Cocktail	Illumina	FC-121-4001	
Enhanced PCR Mix	Illumina	FC-121-4001	
Genomic DNA ladder	Agilent	5067-5582	
Elution Buffer	Agilent	19086	
Sample Buffer	Agilent	5067-5582	
Library Quantification Kit	Kapa Biosystems	KK4835 – 07960204001	
Fertile chicken white eggs	LSL Rhein Main	KN: 15968	
Needle (Neject)	A.Hartenstein	10001	
Syringe (Ecoject 10 mL)	Dispomed witt oHG	21010	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Equipment</b>			
Centrifuge	Hermle	Z 216 MK	
Thermoshaker	ITABIS	MKR13	
Sonicator	Active Motive	EpiShear probe sonicator	
Sonicator	Diagenode	Bioruptor Plus	
Rotator	Stuart	SB3	
Variable volume (5 –1,000 µL) pipettes	Eppendorf	N/A	
Timer	Sigma	N/A	
Magnetic holder	Thermo Fisher	DynaMag-2 12321D	
Table spinner	Heathrow Scientific	Sprout	
Mixer	LMS	VTX 3000L	
Real-Time PCR Cycler	Roche	Light Cycler; Serial Nr.5662	
PCR Cycler	Applied Biosystems	Gene Amp PCR System 9700	
DNA and RNA quality control system	Agilent	Agilent 4200 TapeStation System	
Forceps	Dumont	5-Inox-H	
Perforated spoon	World precision instruments	501997	