

Chromatin Immunoprecipitation in the Cnidarian Model System *Exaiptasia diaphana*

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Materials

Name	Company	Catalog Number	Comments
1 kb Plus DNA Ladder	Invitrogen	10787018	
100% Ethanol			
15 mL falcon tubes			
16% Formaldehyde Solution (w/v), Methanol-free	Thermo scientific	28906	
5 mL tube			
5PRIME Phase Lock tubes	Quantabio	2302820	Phase lock gel - light
AGANI needle 25 G	Terumo	AN*2516R1	
Agarose			
Bovine Serum Albumin	Sigma-Aldrich	A7030	
Bowtie			open source, available from https://bowtie-bio.sourceforge.net/index.shtml
Branson sonifier 250	Branson		Sonicator
Centrifuge	Eppendorf	5430 R	With rotors for 15 mL and 1.5 mL tubes
ChIP-grade antibody (here polyclonal H3K4me3 antibody)	Diagenode	C15410003	
Complete EDTA-free Protease Inhibitor Cocktail	Roche	11873580001	2 tablets/mL water for 100x stock
Cover glass	vwr	48393 194	
Disposable Spatula	vwr	80081-188	
DNA purification kit (here QIAGEN QIAquick PCR purification kit)	QIAGEN	28104	
Dounce tissue grinder	Wheaton		tight pestle
Dulbecco's Phosphate Buffered Saline (DPBS) 1x	gibco	14190-094	
Dynabeads Protein G	Thermo Fisher Scientific	10004D	

EDTA	Sigma-Aldrich	3609	
EGTA	Sigma-Aldrich	324626	
Electrophoresis system			
Ethidium bromide			
FASTQC v0.11.9			software
Gel Doc EZ Documentation System	Bio-Rad	1708270	Gel imaging system
Glycine	Sigma-Aldrich	50046	
Injekt-F Tuberculin syringe 1 mL	B. Braun	9166017V	
Linear acrylamide (5 mg/mL)	Invitrogen	AM9520	
Low-retention 1.5 mL tube			
Magnetic separation rack			for 1.5 mL tubes
Microscope			
Microscope slide			
Model-based Analysis of ChIP-Seq (MACS)			open source
Mortar and pestle, porcelain			
NanoDrop 2000c spectrophotometer	Thermo scientific	ND-2000C	
N-lauroylsarcosine	Sigma-Aldrich	61739	
Nuclease-free water			
Pasteur pipette			
Phenol:Chloroform:Isoamyl Alcohol Mixture (25:24:1)	Sigma-Aldrich	77617	
Proteinase K (20 mg/mL)	Ambion	AM2546	
Purple Loading Dye 6x	New England BioLabs	B7024S	
Qubit 2.0 Fluorometer	Invitrogen		
RNase Cocktail Enzyme Mix	Invitrogen	AM2286	RNase A = 500 U/mL, RNase T1 = 20000 U/mL
Sodium acetate	Sigma-Aldrich	S2889	
Sodium chloride	Sigma-Aldrich	S9888	
Sodium deoxycholate	Sigma-Aldrich	30970	
SYBR Safe DNA Gel Stain	Invitrogen	S33102	
TAE buffer			
Thermomixer	Eppendorf	5384000012	
Tris base	Sigma-Aldrich	10708976001	
Triton X-100 solution	Sigma-Aldrich	93443	
Trypan Blue Stain (0.4%)	Gibco	15250-061	Danger: may cause cancer. Suspected of damaging fertility or the unborn child
Tube rotator SB3	Stuart		
UltraPure SDS Solution, 10%	Invitrogen	15553027	
Vacuum pump			