

Materials List for:

Promoter Capture Hi-C: High-resolution, Genome-wide Profiling of Promoter Interactions

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URL: <https://www.jove.com/video/57320>

DOI: [doi:10.3791/57320](https://doi.org/10.3791/57320)

Materials

Name	Company	Catalog Number	Comments
16% (vol/vol) paraformaldehyde solution	Agar Scientific	R1026	
Dulbecco's Modified Eagle Medium (DMEM) 1x	Life Technologies	41965-039	
Fetal bovine serum (FBS) sterile filtered	Sigma	F9665	
Low-retention filter tips	Starlab	S1180-3810, S1180-1810, S1180-8810 and S1182-1830	
10x PBS pH 7.4	Life Technologies	70011-036	
Molecular biology grade water	Sigma-Aldrich	W4502	
1 M Tris-HCl pH 8.0	Life Technologies	15568-025	
IGEPAL CA-630	Sigma-Aldrich	I8896	
5 M NaCl	Life Technologies	24740-011	
Protease inhibitor cocktail (EDTA-free)	Roche Diagnostics	11873580001	
Restriction buffer 2 (10x NEBuffer 2)	New England Biolabs	B7002	
DNA LoBind tube, 1.5 mL	Eppendorf	0030 108.051	
DNA LoBind tube, 2 mL	Eppendorf	30108078	
20% (wt/vol) SDS	Bio-Rad Laboratories	161-0418	
20% (vol/vol) Triton X-100	Sigma-Aldrich	T8787	
HindIII, 100 U/uL	New England Biolabs	R0104	
10 mM dCTP	Life Technologies	18253-013	
10 mM dGTP	Life Technologies	18254-011	
10 mM dTTP	Life Technologies	18255-018	
0.4 mM Biotin-14-dATP	Life Technologies	19524-016	
DNA polymerase I large (Klenow) fragment 5000 units/mL	New England Biolabs	M0210	
10x T4 DNA ligase reaction buffer	New England Biolabs	B0202	
100x 10mg/ml Bovine Serum Albumin	New England Biolabs	B9001	
T4 DNA ligase, 1 U/μL	Invitrogen	15224-025	

RNase A	Roche	10109142001	
Proteinase K, recombinant, PCR grade	Roche	3115836001	
20 000xg 50 ml centrifuge tube	VWR	525-0156	
0.5 M EDTA pH 8.0	Life Technologies	15575-020	
Phenol pH 8.0	Sigma	P4557	
Phenol: Chloroform: Isoamyl Alcohol 25:24:1	Sigma	P3803	
Sodium acetate pH 5.2	Sigma	S7899	
Quant-iT PicoGreen	Invitrogen	P7589	
QIAquick Gel Extraction Kit	Qiagen	28704	
QIAquick PCR Purification Kit	Qiagen	28104	
Restriction buffer 2.1 (10x NEBuffer 2.1)	New England Biolabs	B7202	
NheI, 100U/uL	New England Biolabs	R0131	
Micro TUBE AFA Fiber Pre-slit snap cap 6x16mm vials	Covaris	520045	For sonication
SPRI beads (Agencourt AMPure XP)	Beckman Coulter	A63881	
Dynabeads MyOne Streptavidin C1 beads	Invitrogen	65001	
Tween 20	Sigma	P9416	
10 mM dATP	Life Technologies	18252-015	
T4 DNA polymerase 3000 units/mL	New England Biolabs	M0203	
T4 PNK 10000 units/mL	New England Biolabs	M0201	
Klenow exo minus 5000 units/mL	New England Biolabs	M0212	
Quick ligation reaction buffer	New England Biolabs	B6058	
NEB DNA Quick ligase	New England Biolabs	M2200	
PE adapter 1.0 (5'-P-GATCGGAAGAGCGTTTCAGC AGGAATGCCGAG-3')	Illumina		
PE adapter 2.0 (5'-ACACTCTTCCCTACACGACGCTCTTCCGATCT-3')	Illumina		
NEB Phusion PCR kit	New England Biolabs	M0530	
PE PCR primer 1.0 (5'-AATGATACGGCGACCACCGA GATCTACACTCTTCCCTAC ACGACGCTCTTCCGATCT-3')	Illumina		
PE PCR primer 2.0 (5'-CAAGCAGAAGACGGCATACGA GATCGGTCTCGGCATTCTTCTGTAACCGCTCTTCCGATCT-3')	Illumina		
PCR strips	Agilent Technologies	410022 and 401425	
SureSelect SSEL TE Reagent ILM PE full adaptor kit	Agilent Technologies	931108	
SureSelect custom 3-5.9 Mb library	Agilent Technologies	5190-4831	custom design mouse or human PChi-C system
Dynabeads MyOne Streptavidin T1 beads	Invitrogen	65601	
E220 high-performance focused ultra-sonicator	Corvaris	E220	