

Materials List for:

Tools to Study the Role of Architectural Protein HMGB1 in the Processing of Helix Distorting, Site-specific DNA Interstrand Crosslinks

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Materials

Name	Company	Catalog Number	Comments
5'HMT Psoralen-AG30	Midland Certified Reagent Co., Midland, TX	Custom order	HPLC (or gel) purified
Simple ChIP Enzymatic Chromatin IP Kit	Cell signaling Inc.	9003	Manufacturer suggested protocol is optimized for chromatin IP and not for plasmid IP. The control IgG and H3 antibodies as well as the Protein G beads and micrococcal nuclease are supplied by the manufacturer.
GoTaq Green	Promega	M7122	PCR master mix
HMGB1 antibody	Abcam	Ab18256	
Wizard Gel and PCR cleanup kit	Promega	A9281	
Chloroquine-diphosphate salt	Sigma	C6628-50G	For two-dimensional agarose gel electrophoresis
EcoRI	New England BioLabs	R0101S	
GenePORTER transfection reagent	Genlantis	T201015	
Vaccinia Topoisomerase I	Invitrogen	38042-024	
Blak-Ray long wave ultraviolet lamp	Upland, CA	B 100 AP	UVA lamp
EpiSonic Multi-Functional Bioprocessor 1100	Epigentek	EQC-1100	Water bath sonicator
Mylar filter	GE Healthcare Life Sciences	80112939	
Agarose	Sigma-Aldrich	A6111	
BIO-RAD Chemidoc	BIO-RAD	XRS+ system	DNA imaging system
Glycine	Fisher Scientific	BP381-500	
37% Formaldehyde	Sigma-Aldrich	F8775-25ML	Used for crosslinking
Proteinase K	New England Biolabs	P8107S	
DMEM	ThermoFisher	11965092	Cell culture media
PBS	ThermoFisher	70013073	Cell culture
Trypsin-EDTA	ThermoFisher	25200056	Cell culture
Bromocresol green	Sigma-Aldrich	114-359	DNA loading dye
Siliconized tubes	Fisher Scientific	02-681-320	Low retention microfuge tube
Tris base	Fisher Scientific	BP152-1	
Boric Acid	Fisher Scientific	A74-1	
EDTA	Fisher Scientific	BP24731	
Photometer	InternationalLight Technologies	ILT1400-A	UVA dose measurement
Cell lines			

Human U2OS osteosarcoma	ATCC	ATCC HTB-96	Cultured according to supplier's recommendation
Human cervical adenocarcinoma HeLa	ATCC	ATCC-CCL-2	Cultured according to supplier's recommendation
Proximal forward primer	5'-gcc ccc ctg acg agc atc ac		
Proximal reverse primer	5'-tag tta ccg gat aag gcg cag cgg		
Distal forward primer	5'-aat acc gcg cca cat agc ag		
Distal reverse primer	5'-agt att caa cat ttc cgt gtc gcc		