

Materials List for:

Isolation and Cultivation of Neural Progenitors Followed by Chromatin-Immunoprecipitation of Histone 3 Lysine 79 Dimethylation Mark

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Materials

Name	Company	Catalog Number	Comments
Anti-GAPDH	Abcam	ab8245	Category: Antibody Abbreviation/Comment: Immunoblot dilution 1:5000
Anti-H3	Abcam	ab1791	Category: Antibody Abbreviation/Comment: Immunoblot dilution 1:3000
Anti-H3K79me2	Diagenode	pAb-051-050	Category: Antibody Abbreviation/Comment: ChIP antibody
Anti-H3K79me2	Abcam	ab-051-050	Category: Antibody Abbreviation/Comment: Immunoblot dilution 1:1000
Anti-rabbit-IgG	Diagenode	C15410206	Category: Antibody Abbreviation/Comment: ChIP Ctrl antibody
Anti-Tubulin alpha	Abcam	ab108629	Category: Antibody Abbreviation/Comment: Immunoblot dilution 1:3000
Apo-Transferrin (1 mg/ml)	Sigma-Aldrich	T1147	Category: Cell culture Abbreviation/Comment: For CCM
B27 Supplement (50x)	Life Technologies	17504044	Category: Cell culture Abbreviation/Comment: For CCM
Bioanalyzer	Agilent technologies	G2940CA	Category: ChIP Abbreviation/Comment: For analysis of sheared chromatin
Bioruptor NextGen	Diagenode	B01020001	Category: ChIP Abbreviation/Comment: Ultrasonicator
Boric acid pH 8.4	Sigma Aldrich	B6768	Category: Cell culture Abbreviation/Comment: For CPC culturing
CFX Connect RT PCR Detection System	Bio-Rad	1855201	Category: ChIP Analysis Abbreviation/Comment: Detection system for qPCR
DMEM-F12	Life Technologies	11320-033	Category: Cell culture Abbreviation/Comment: For CGM
Dynabeads Protein A	Invitrogen	10001D	Category: ChIP Abbreviation/Comment: Magnetic beads, for ChIP
EPZ-5676	Selleckchem	S7062	Category: DOT1L inhibition Abbreviation/Comment: For DOT1L inhibition in cell culture

Ethylenediamine tetraacetic acid	SERVA	39760.01	Category: ChIP Abbreviation/Comment: EDTA
Fetal Bovine Serum 10% (v/v)	Gibco	10082147	Category: Cell culture Abbreviation/Comment: For CPC isolation and CGM
Glucose	Sigma-Aldrich	G5767	Category: Cell culture Abbreviation/Comment: For CGNP isolation
Glutathione (1.25 mg/ml)	Sigma-Aldrich	G4251	Category: Cell culture Abbreviation/Comment: For CCM
Glycine	Carl Roth	3187	Category: ChIP Abbreviation/Comment: For cell fixation
GoTaq mastermix	Promega	A6002	Category: ChIP Analysis Abbreviation/Comment: DNA polymerase master mix for qPCR
Hank's Balanced Salt Solution	Life Technologies	14025-100	Category: Cell culture Abbreviation/Comment: HBSS
L-glutamine (200 mM)	Life Technologies	25030081	Category: Cell culture Abbreviation/Comment: For CCM
Laminin	Sigma-Aldrich	L2020	Category: Cell culture Abbreviation/Comment: For CPC culturing
Lithium chloride	Sigma-Aldrich	L4408	Category: ChIP Abbreviation/Comment: LiCl
N2 supplement	Life Technologies	17502048	Category: Cell culture Abbreviation/Comment: For CGM
NanoDrop 3300	Thermo Fisher	3300	Category: ChIP Abbreviation/Comment: Fluorospectrometer for DNA quantification
NEB Next Ultra DNA Library Prep Kit for Illumina	NEB	E7645S	Category: ChIP Analysis Abbreviation/Comment: Kit for Library preparation
NEBNext Multiplex Oligos for Illumina	NEB	E7335	Category: ChIP Analysis Abbreviation/Comment: Oligos for Library preparation
Neurobasal medium	Gibco	21103049	Category: Cell culture Abbreviation/Comment: For CCM
NP-40 Alternative	Calbiochem	492016	Category: ChIP Abbreviation/Comment: For ChIP buffer
Paraformaldehyde	Carl Roth	335	Category: ChIP Abbreviation/Comment: PFA, for cell fixation
Penicillin-Streptomycin-Neomycin 1% (v/v)	Life Technologies	15640055	Category: Cell culture Abbreviation/Comment: PSN, for CCM and CGM
Phosphate buffered saline	Life Technologies	10010023	Category: Cell culture Abbreviation/Comment: PBS, for CPC isolation
PicoGreen Kit	Thermo Fisher	P11496	Category: ChIP Analysis Abbreviation/Comment: Visualizing dye for DNA quantification
Poly-D-lysine	Sigma-Aldrich	P6407	Category: Cell culture Abbreviation/Comment: For CGNP isolation

Poly-L-ornithine hydrobromide	Sigma Aldrich	P3655	Category: Cell culture Abbreviation/Comment: For CPC culturing
Potassium chloride	Thermo Fisher	AM9640G	Category: Cell culture Abbreviation/Comment: KCl, for CGM
Protease inhibitor	Roche	4693159001	Category: ChIP Abbreviation/Comment: For ChIP
Proteinase K	Sigma-Aldrich	3115879001	Category: ChIP Abbreviation/Comment: For ChIP
Qiagen MinElute	Qiagen	28004	Category: ChIP Abbreviation/Comment: Kit for DNA purification
RNAse	Sigma-Aldrich	R6513	Category: ChIP Abbreviation/Comment: For ChIP
SGC0946	Selleckchem	S7079	Category: DOT1L inhibition Abbreviation/Comment: For DOT1L inhibition in cell culture
Sodium bicarbonate	Carl Roth	8551.1	Category: ChIP Abbreviation/Comment: for Elution buffer
Sodium chloride	Carl Roth	9265	Category: ChIP Abbreviation/Comment: NaCl, for ChIP buffer
Sodium deoxycholate	Sigma-Aldrich	30970	Category: ChIP Abbreviation/Comment: For ChIP
Sodium dodecylsulfate	Carl Roth	183	Category: ChIP Abbreviation/Comment: SDS, for ChIP
Sonic hedgehock (SHH)	Sigma-Aldrich	SRP6004	Category: Cell culture Abbreviation/Comment: For CGNP isolation
Superoxide dismutase (1mg/ml)	Sigma-Aldrich	S7571	Category: Cell culture Abbreviation/Comment: For CCM
Tris(hydroxymethyl)aminomethane	Carl Roth	9090	Category: ChIP Abbreviation/Comment: TRIS, for ChIP buffer
Triton X-100	Carl Roth	X100	Category: ChIP Abbreviation/Comment: For ChIP buffer
Trypsin-EDTA 0,05% (w/v)	Sigma Aldrich	59417C	Category: Cell culture Abbreviation/Comment: For CPC isolation
Tween20	Carl Roth	28320	Category: ChIP Abbreviation/Comment: For bead preparation
Other Lab devices: Neubauer counting chamber, Incubator, Rotator, Shaker, Dissection set, Water bath			
CCM: Cortical cell medium			
CGM: CGNP cell culture medium			