

Materials List for

Profiling of H3K4me3 Modification in Plants using Cleavage under Targets and Tagmentation

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Materials

Name	Company	Catalog Number	Comments
Antibody			
Anti-H3K4me3	Millipore	07-473	
Normal rabbit IgG	Millipore	12-370	
Chemicals			
Bovine Serum Albumin (BSA)			Make 10 mg/ml BSA stock solution. Store at -20°C
digitonin (~50% (TLC))	Sigma-Aldrich	D141	Make 5% digitonin stock solution (200 mg digitonin [~50% purity] to 2 mL DMSO). Note: Sterilize using a 0.22- micron filter. Store at -20°C
dimethyl sulfoxide (DMSO)			
chloroform			
ethylenediaminetetraacetic acid (EDTA)			Make 0.5 M EDTA (pH = 8.5) stock solution. Note: Making 100 mL of 0.5-M EDTA (pH = 8.5) requires approximately 2 g of sodium hydroxide (NaOH) pellets to adjust the pH
ethanol			
GlycoBlue Coprecipitant (15 mg/mL)	Invitrogen	AM9516	
magnesium chloride (MgCl ₂)			Make 1 M MgCl ₂ stock solution
protease inhibitor cocktail	Calbiochem	539133-1SET	
potassium chloride (KCl)			Make 1 M KCl stock solution
phenol:chloroform:isoamyl alcohol (25:24:1,v:v:v)			
sodium chloride (NaCl)			Make 5 M NaCl stock solution
spermidine			Make 2 M spermidine stock solution, store at -20°C.

sodium dodecyl sulfate (SDS)			Make 10% SDS stock solution. Note: Do not autoclave; sterilize using a 0.22-micron filter
Tris base			Make 1 M Tris (pH = 8.0) stock solution
Triton X-100			Make 20% Triton X-100 stock solution
Enzyme			
Hyperactive pG-Tn5/pA-Tn5 transposase for CUT&Tag	Vazyme	S602/S603	Check the antibody affinity of the protein A or protein G that is fused with the Tn5. Generally speaking, proteins A and G have broad antibody affinity. However, protein A has a relatively higher affinity to rabbit antibodies and protein G has a relatively higher affinity to mouse antibodies. Select the appropriate transposase products that match your antibody.
TruePrep Amplify Enzyme	Vazyme	TD601	
Equipment			
Centrifuge	Eppendorf	5424R	
PCR machine	Applied Biosystems	ABI9700	
Orbital shaker	MIULAB	HS-25	
NanoDrop One spectrophotometer	Thermo Scientific	ND-ONE-W	