

Materials List for:

Targeted *in Situ* Mutagenesis of Histone Genes in Budding Yeast

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Materials

Name	Company	Catalog Number	Comments
1 kb DNA Ladder (DNA standards)	New England BioLabs	N3232L	
Agarose	Sigma	A5093-100G	
Boric Acid	Sigma	B0394-500G	
dNTP mix (10 mM each)	ThermoFisher Scientific	R0192	
EDTA solution (0.5 M, pH 8.0)	AmericanBio	AB00502-01000	
Ethanol (200 Proof)	Fisher Scientific	16-100-824	
Ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA)	Sigma	E4884-500G	
Lithium acetate dihydrate	Sigma	L6883-250G	
MyCycler Thermal Cycler	BioRad	170-9703	
Poly(ethylene glycol) (PEG)	Sigma	P3640-1KG	
PrimeSTAR HS DNA Polymerase (high fidelity DNA polymerase) and 5x buffer	Fisher Scientific	50-443-960	
Salmon sperm DNA solution	ThermoFisher Scientific	15632-011	
Sigma 7-9 (Tris base, powder form)	Sigma	T1378-1KG	
Sodium acetate trihydrate	Sigma	236500-500G	
Supra Sieve GPG Agarose (low melting temperature agarose)	AmericanBio	AB00985-00100	
Taq Polymerase and 10x Buffer	New England BioLabs	M0273X	
Toothpicks	Fisher Scientific	S67859	
Tris-HCl (1 M, pH 8.0)	AmericanBio	AB14043-01000	
a-D(+)-Glucose	Fisher Scientific	AC170080025	for yeast media
Agar	Fisher Scientific	DF0140-01-0	for yeast media
Peptone	Fisher Scientific	DF0118-07-2	for YPD medium
Yeast Extract	Fisher Scientific	DF0127-17-9	for YPD medium
4-aminobenzoic acid	Sigma	A9878-100G	for complete minimal dropout medium
Adenine	Sigma	A8626-100G	for complete minimal dropout medium
Glycine hydrochloride	Sigma	G2879-100G	for complete minimal dropout medium
L-Alanine	Sigma	A7627-100G	for complete minimal dropout medium
L-Arginine monohydrochloride	Sigma	A5131-100G	for complete minimal dropout medium
L-Asparagine monohydrate	Sigma	A8381-100G	for complete minimal dropout medium

L-Aspartic acid sodium salt monohydrate	Sigma	A6683-100G	for complete minimal dropout medium
L-Cysteine hydrochloride monohydrate	Sigma	C7880-100G	for complete minimal dropout medium
L-Glutamic acid hydrochloride	Sigma	G2128-100G	for complete minimal dropout medium
L-Glutamine	Sigma	G3126-100G	for complete minimal dropout medium
L-Histidine monohydrochloride monohydrate	Sigma	H8125-100G	for complete minimal dropout medium
L-Isoleucine	Sigma	I2752-100G	for complete minimal dropout medium
L-Leucine	Sigma	L8000-100G	for complete minimal dropout medium
L-Lysine monohydrochloride	Sigma	L5626-100G	for complete minimal dropout medium
L-Methionine	Sigma	M9625-100G	for complete minimal dropout medium
L-Phenylalanine	Sigma	P2126-100G	for complete minimal dropout medium
L-Proline	Sigma	P0380-100G	for complete minimal dropout medium
L-Serine	Sigma	S4500-100G	for complete minimal dropout medium
L-Threonine	Sigma	T8625-100G	for complete minimal dropout medium
L-Tryptophan	Sigma	T0254-100G	for complete minimal dropout medium
L-Tyrosine	Sigma	T3754-100G	for complete minimal dropout medium
L-Valine	Sigma	V0500-100G	for complete minimal dropout medium
myo-Inositol	Sigma	I5125-100G	for complete minimal dropout medium
Uracil	Sigma	U0750-100G	for complete minimal dropout medium
Ammonium Sulfate	Fisher Scientific	A702-500	for complete minimal dropout medium
Yeast Nitrogen Base	Fisher Scientific	DF0919-07-3	for complete minimal dropout medium
5-Fluoroorotic acid (5-FOA)	AmericanBio	AB04067-00005	for 5-FOA medium