Recombinant Mononucleosomes, Symmetrically Methylated 199x601 DNA, Biotinylated

Cat. No. NUC-057 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mononucleosomes assembled from recombinant histones expressed in E. coli.
Source	E.coli
Description	Mononucleosomes assembled from recombinant histones expressed in E. coli (two each of histones H2A, H2B, H3 and H4; accession numbers: H2A-P06897; H2B-P02281; H3-Q92133; H4-P62799) wrapped by 199 base pairs of DNA containing the 601 positioning sequence DNA. The the 199 bp DNA sequence contains a 147 base-pair 601 nucleosome positioning sequence, identified by Lowary and Widom, which has high affinity for histone octamers and is useful for nucleosome assembly. The 601 sequence is flanked by a 26 bp sequence as shown in application notes and contains a 5' biotin-TEG group.
Form	Mononucleosomes, Recombinant, Symmetrically Methylated 199x601 DNA (50 µg DNA + protein, 24.3 µg protein weight) in 10 mM Tris pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM EDTA, 20% glycerol.
Molecular Mass	232,993.9 Da
Applications	DNA sequence with methylation sites in RED 5'-Biotin-TEGGGACCCTATACGCGGCCGCCGAATTCCTGGAGAATCCCGGTCTGC AGGCCGCTCAATTGGTCGTAGACAGCTCTACGTGGCGAATTTGCGTGCATGCGC CTGTCCCCCGCGTTTTAACCGCCA

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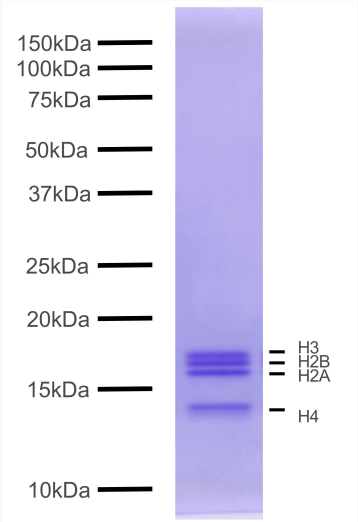
	AGGGGATTACTCCCTAGTCTCCAGGCACGTGTCAGATATATACATCCTGTGGAT CCGCCGGTCGCGAACAGCGACC-3' 3'CCTGGGATATGCGCCGGCGGCTTAAGGACCTCTTAGGGCCAGACGTCCGGCG AGTTAACCAGCATCTGTCGAGATGCACCGCTTAAACGCACGTACGCGGACAGGG GGCGCAAAATTGGCGGTTCCCCTAATGAGGGATCAGAGGTCCGTGCACAGTCTA TATATGTAGGACACCTAGGCGGCCAGCGCTTGTCGCTGG-5'
Storage	Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.
Conjugation	Biotin
Protein Gel Data	 Coomassie stained PAGE gel of proteins in Mononucleosomes, Recombinant, Symmetrically Methylated 199x601 DNA, Biotinylated (0.75 µg) to demonstrate the purity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H3 and H4) are indicated.

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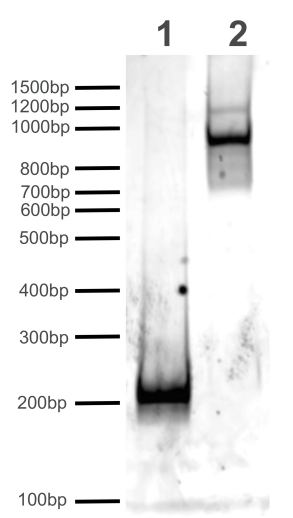
DNA Gel Data



Mononucleosomes, Recombinant, Symmetrically Methylated 199x601 DNA, Biotinylated run on a native PAGE gel and stained with ethidium bromide to visualize DNA. Lane 1: Free DNA. Lane 2: Intact nucleosomes (200 ng).

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