

# Recombinant Human Nucleosome, His-tagged, Biotinylated

**Cat. No.** NUC-002    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Biotinylated Recombinant Human Nucleosome Protein, fused to N-terminal His-tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Human recombinant nucleosomes consisting of 147 bp DNA (PCR) and 2 molecules each of histones H2A (a.a. 2-130(end)), H2B (a.a. 2-126(end)), H3 (a.a. 2-137(end)), and H4 (a.a. 2-103(end)), expressed in an E. coli expression system. GenBank Accession Nos. are NM_033445, NM_003528, NM_003532, and NM_003548, respectively. Each histone protein has an N-terminal His-tag. Each H2B has a C-terminal Cys added as a biotinylation site. Total histone MW (before biotinylation) =113.8 kDa. |
| <b>Form</b>             | 20 mM Tris-HCl, pH 7.5, 1 mM EDTA, 1 mM DTT, and 20% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 113.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>     | Substrate for histone methyltransferase or acetyltransferase assays. Ideal for screening small molecular inhibitors of histone methyltransferases and acetyltransferases for drug discovery and HTS applications. Since these nucleosomes were prepared in E                                                                                                                                                                                                                                     |
| <b>Notes</b>            | The concentration of this product is determined by Bradford and represents only the                                                                                                                                                                                                                                                                                                                                                                                                              |

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protein concentration.

**Stability**

At least 6 months at  $-80^{\circ}\text{C}$ . Avoid freeze/thaw cycles. Storing diluted protein is not recommended, if necessary, use carrier protein (BSA 0.1-0.5%).

**Storage**

Stable at  $-80^{\circ}\text{C}$  for at least 6 months from date of receipt, when stored as directed

**Concentration**

1.01 mg/ml

**Conjugation**

Biotin

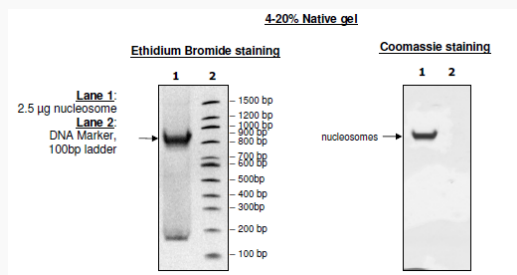
## GENE INFORMATION

**mRNA Refseq**

[NM\\_033445](#), [NM\\_003528](#), [NM\\_003532](#), [NM\\_003549](#)

**UniProt ID**

[Q7L7L0](#), [Q16778](#), [P68431](#), [P62805](#)

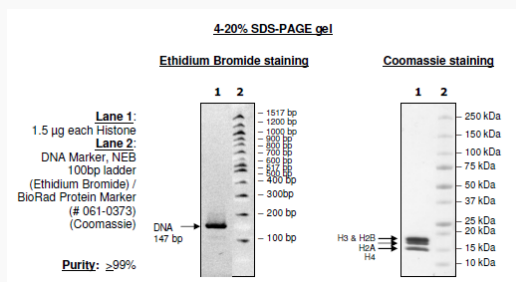
**SDS-PAGE of NUC-002**


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