

## Recombinant Human DHX9 protein, His/SUMO-tagged

**Cat. No.** DHX9-32H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human DHX9(aa 325-840) fused with His/SUMO tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 325-840 a.a.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Unwinds double-stranded DNA and RNA in a 3' to 5' direction. Alteration of secondary structure may subsequently influence interactions with proteins or other nucleic acids. Functions as a transcriptional activator. Component of the CRD-mediated complex that promotes MYC mRNA stability. Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2. |
| <b>Form</b>             | 20 mM Tris, pH 8.0, 500 mM NaCl, 50% glycerol                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 74.5 kD                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | NQVGVPWSP PQSNWNPWTS SNIDEGPLAF ATPEQISMDLKNELMYQLEQ<br>DHDLQAILQE RELLPVKKFE SEILEAISQNSVVIIRGATG CGKTTQVPQF<br>ILDDFIQNDR AAECNIVVTQ<br>PRRISAVSVA ERVAFERGEE PGKSCGYSVR FESILPRPHASIMFCTVGVL<br>LRKLEAGIRG ISHVIVDEIH ERDINTDFLLVLRDVVQAY PEVRIVLMSA<br>TIDTSMFCEY FFNCPIIEVY                                                                                                      |

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GRTYPVQEYF LEDCIQMTHF VPPPKDKKKK DKDDGGGEDDDANCNLICGD  
 EYGPETRLSM SQLNEKETPF ELIEALLKYIETLNVPGAVL VFLPGWNLIY  
 TMQKHLEMNP HFGSHRYQIL  
 PLHSQIPREE QRKVFDPPVPV GVTKVILSTN IAETSITINDVVYVIDSCKQ  
 KVKLFTAHHN MTNYATVWAS KTNLEQRKGRAGRVRPGFCF HLCSRARFER  
 LETHMTPEMF RTPLHEIALS  
 IKLLRLGGIG QFLAKAIEPP PLDAVIEAEH TLRELD

**Storage** Long term: -80 centigrade; Short term: -20 centigrade. Avoid freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** DHX9 DEAH (Asp-Glu-Ala-His) box polypeptide 9 [ Homo sapiens ]

**Official Symbol** DHX9

**Synonyms** DHX9; DEAH (Asp-Glu-Ala-His) box polypeptide 9; DDX9, DEAD/H (Asp Glu Ala Asp/His) box polypeptide 9 (RNA helicase A, nuclear DNA helicase II; leukophysin) , LKP; ATP-dependent RNA helicase A; NDH II; RHA; leukophysin; DEAH box protein 9; nuclear DNA helicase II; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 9; LKP; DDX9; NDH2; NDHII; FLJ17406;

**Gene ID** 1660

**mRNA Refseq** NM\_001357

**Protein Refseq** NP\_001348

**MIM** 603115

**UniProt ID** Q08211

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1q25                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem; mRNA processing, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; ATP-dependent DNA helicase activity; ATP-dependent RNA helicase activity; DNA binding; RNA helicase activity; RNA polymerase II transcription factor binding; double-stranded RNA binding; hydrolase activity; nucleotide binding; protein binding;                  |

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