# Probable ATP-Dependent RNA Helicase DDX31 (DDX31) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Probable ATP-dependent RNA helicase DDX31 (DDX31), Recombinant Protein |
| **Full Product Name** | Recombinant Human Probable ATP-dependent RNA helicase DDX31 (DDX31) , partial |
| **Product Gene Name** | DDX31 recombinant protein |
| **Product Synonym Gene Name** | DDX31 |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 64,137 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 616533 |
| **3D Structure** | ModBase 3D Structure for Q9H8H2 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for DDX31 recombinant protein** | DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a member of this family. The function of this member has not been determined. Alternative splicing of this gene generates 2 transcript variants. |
| **Other Notes** | Small volumes of DDX31 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for DDX31 purchase** | MBS1353359 is a recombinant protein targeting DDX31. Also known as Recombinant Human Probable ATP-dependent RNA helicase DDX31 (DDX31) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDX31. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 1016470426 |
| **NCBI GeneID** | 64794 |
| **NCBI Accession #** | NP_001309269.1 |
| **UniProt Primary Accession #** | Q9H8H2 |

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| **UniProt Secondary Accession #** | Q5K6N2; Q5K6N3; Q5K6N4; Q5VZJ4; Q5VZJ9; Q96E91; Q96NY2; Q96SX5; Q9H5K6 |
| **UniProt Related Accession #** | Q9H8H2 |
| **GenBank Nucleotide #** | NM_001322340.1 |
| **NCBI Official Full Name** | probable ATP-dependent RNA helicase DDX31 isoform 3 |
| **NCBI Official Synonym Full Names** | DEAD-box helicase 31 |
| **NCBI Official Symbol** | DDX31 |
| **NCBI Official Synonym Symbols** | PPP1R25 |
| **UniProt Protein Name** | Probable ATP-dependent RNA helicase DDX31 |
| **UniProt Synonym Protein Names** | DEAD box protein 31; Helicain |
| **Protein Family** | Probable ATP-dependent RNA helicase |
| **UniProt Gene Name** | DDX31 |
| **NCBI Protein Information** | probable ATP-dependent RNA helicase DDX31 |
| **NCBI Summary for DDX31** | DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a member of this family. The function of this member has not been determined. Alternative splicing of this gene generates multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2016] |
| **UniProt Comments for DDX31** | Probable ATP-dependent RNA helicase (). Plays a role in ribosome biogenesis and TP53/p53 regulation through its interaction with NPM1 (PubMed:23019224). |
| **Research Articles on DDX31** | **1.** Findings define a mechanism through which control of the DDX31-NPM1 complex is likely to play critical roles in renal carcinogenesis. |
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