

Recombinant Human DDX56 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DDX56-538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDX56 MS Standard C13 and N15-labeled recombinant protein (NP_061955) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the DEAD box protein family. 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 family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. This gene may be involved in ribosome synthesis, most likely during assembly of the large 60S ribosomal subunit. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	61.6 kDa
AA Sequence	MEDSEALGFEHMGDPRLQAVTDLGWSRPTLIQEKAIPALALEGKDLLARARTGSGK TAAYAIPMLQLLLHRKATGPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVR

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VANVSAEDSVSQRAVLMEKPDVVVGTPSRILSHLQQDSLKLKRDSELELLVDEADLL
 FSFGFEEELKSLLCHLPRIYQAFLMSATFNEDVQALKELILHNPVTLKLQESQLPGPD
 QLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVL
 NGELPLRSRCHIIISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASDPEAG
 VARGIDFHHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIVLTFVLPTEQFHLGKIEEL
 LSGENRGPIILPYQFRMEEIEGFRYRCRDAMRSVTKQAIREARLKEIKEELLHSEKLK
 TYFEDNPRDLQLLRHDLPLHPAVVKPHLGHVDPDYLVPALRGLVRPHKKRKKLSSSC
 RKAKRAKSQNPLRSFKHKGKKFRPTAKPSTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DDX56 DEAD-box helicase 56 [[Homo sapiens \(human\)](#)]

Official Symbol DDX56

Synonyms

DDX56; DEAD (Asp-Glu-Ala-Asp) box helicase 56; DEAD (Asp Glu Ala Asp) box polypeptide 56; probable ATP-dependent RNA helicase DDX56; NOH61; nucleolar helicase of 61 kDa; DEAD box protein 21; DEAD box protein 56; DEAD-box RNA helicase; 61-kd nucleolar helicase; putative nucleolar RNA helicase; DEAD (Asp-Glu-

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Ala-Asp) box polypeptide 56; ATP-dependent 61 kDa nucleolar RNA helicase;
DDX21; DDX26;

Gene ID 54606

mRNA Refseq NM_019082

Protein Refseq NP_061955

MIM 608023

UniProt ID Q9NY93

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