

Recombinant Human DDX21 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DDX21-4431H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDX21 MS Standard C13 and N15-labeled recombinant protein (NP_004719) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. This gene encodes a DEAD box protein, which is an antigen recognized by autoimmune antibodies from a patient with watermelon stomach disease. This protein unwinds double-stranded RNA, folds single-stranded RNA, and may play important roles in ribosomal RNA biogenesis, RNA editing, RNA transport, and general transcription.
Molecular Mass	87.3 kDa
AA Sequence	MPGKLRS DAGLES DTAMKKGETLRKQTEEEKKPKSDKTEEIAEEEEETVFPKAK QVKKKAEPSEVDMNSPKSKKAKKKKEEPSQNDISPKTKSLRKKKEPIEKKVSSKTKK VTKNEEPSEEEIDAPKPKMKKEKEMNGETREKSPKLKNGFPHPEPDCNPSEAASE

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ESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTFLLFPIQAKTFHHVYSGKDLIAQ
 ARTGTGKTFSFAPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKL
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 VESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEIIKAS
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 RGQREGSRGPRGQRSGGGNKSNSQNKKGQKRSFSKAFGQTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

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	DDX21 DExD-box helicase 21 [Homo sapiens (human)]
Official Symbol	DDX21
Synonyms	DDX21; DEAD (Asp-Glu-Ala-Asp) box helicase 21; DEAD (Asp Glu Ala Asp) box

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polypeptide 21, DEAD/H (Asp Glu Ala Asp/His) box polypeptide 21; nucleolar RNA helicase 2; GURDB; RH II/GU; RH II/Gu; gu-alpha; Gu protein; DEAD box protein 21; RNA helicase II/Gu alpha; nucleolar RNA helicase Gu; nucleolar RNA helicase II; DEAD (Asp-Glu-Ala-Asp) box polypeptide 21; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 21; GUA; RH-II/GU; RH-II/GuA; DKFZp686F21172;

Gene ID [9188](#)

mRNA Refseq [NM_004728](#)

Protein Refseq [NP_004719](#)

MIM [606357](#)

UniProt ID [Q9NR30](#)

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