

Recombinant Human DDX23 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DDX23-2963H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDX23 MS Standard C13 and N15-labeled recombinant protein (NP_004809) 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 is a component of the U5 snRNP complex; it may facilitate conformational changes in the spliceosome during nuclear pre-mRNA splicing. An alternatively spliced transcript variant has been found for this gene, but its biological validity has not been determined.
Molecular Mass	95.6 kDa
AA Sequence	MAGELADKKDRDASPSKEERKRSRTPDRERDRDRDRKSSPSKDRKRHRSRDRRR GGSRSRSRSRSKSAERERRHKERERDKERDRNKKDRDRDKDGHRRDKDRKRSSL

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SPGRGKDFKSRKDRDSKKDEEDEHGDKKPKAQPLSLEELLAKKKAEAAEAKPKFL
 SKAEREAEALKRRQQEVEERQRMLEEEERKKRKQFQDLGRKMLEDQPQERERRR
 ERMERETNGNEDEEGRQKIREEKDKSKELHAIKERYLGGIKRRRTRHLNDRKFVFE
 WDASEDTSIDYNPLYKERHQVQLLGRGFIAGIDLKQKQKREQSRFYGDLMEKRRTLE
 EKEQEEARLRKLRKKEAKQRWDDRHWSQKKLDEMTRDWRIFREDYSITTKGGKIP
 NPIRSWKDSSLPPHILEVIDKCGYKEPTPIQRQAIPIGLQNRDIIGVAETGSGKTAFLI
 PLLWITTLPKIDRIEESDQGPYAILAPTRELAQQIEEETIKFGKPLGIRTVAVIGGISRE
 DQGFRLRMGCEIVIATPGRLIDVLENRYLVLSRCTYVVLDEADRMIDMGFEPDVQKIL
 EHMPVSNQKPDTEAEDPEKMLANFESGKHKYRQTMFTATMPPAVERLARSYLR
 RPAVVYIGSAGKPHERVEQKVFLMSESEKRKKLLAILEQGFDPPIIIFVNQKKGCDVL
 AKSLEKMGYNACTLHGGKGQE QREFALS NLKAGAKDILVATDVAGRGIDIQDVSMV
 VNYDMAKNIEDYIHRIGRTGRAGKSGVAITFLT KEDSAVFYELKQAILESPVSSCPPEL
 ANHPDAQHKPGTILTKKRREETIFATRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 DDX23 DEAD-box helicase 23 [Homo sapiens (human)]

Official Symbol DDX23

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Synonyms	DDX23; DEAD (Asp-Glu-Ala-Asp) box polypeptide 23; PRP28 homolog, yeast; probable ATP-dependent RNA helicase DDX23; prp28; PRPF28; U5 100K; PRP28p homolog; DEAD box protein 23; U5 snRNP 100 kD protein; 100 kDa U5 snRNP-specific protein; U5-100K; U5-100KD; MGC8416;
Gene ID	9416
mRNA Refseq	NM_004818
Protein Refseq	NP_004809
MIM	612172
UniProt ID	Q9BUQ8
SDS-PAGE	