

Recombinant Human DDX23, GST-tagged

Cat. No. DDX23-11896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DDX23 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	614-820a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	DDX23 DEAD (Asp-Glu-Ala-Asp) box polypeptide 23 [Homo sapiens]
Official Symbol	DDX23
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
Chromosome Location	12q13.11
Pathway	Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; Spliceosome, organism-specific biosystem; Spliceosome, conserved biosystem; Spliceosome, U4/U6.U5 tri-snRNP, organism-specific biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem;

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Function

ATP binding; ATP-dependent RNA helicase activity; NOT ATP-dependent helicase activity; helicase activity; hydrolase activity; nucleic acid binding; nucleotide binding; protein binding;

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