

Recombinant Mouse Ddx39b Protein, Myc/DDK-tagged

Cat. No. Ddx39b-2505M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B (Ddx39b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Involved in nuclear export of spliced and unspliced mRNA. Assembling component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. May undergo several rounds of ATP hydrolysis during assembly of TREX to drive subsequent loading of components such as ALYREF/THOC and CHTOP onto mRNA. Also associates with pre-mRNA independent of ALYREF/THOC4 and the THO complex. Involved in the nuclear export of intronless mRNA; the ATP-bound form is proposed to recruit export adapter ALYREF/THOC4 to intronless mRNA; its ATPase activity is cooperatively stimulated by RNA and ALYREF/THOC4 and ATP hydrolysis is thought to trigger the dissociation from RNA to allow the association of ALYREF/THOC4 and the NXF1-NXT1 heterodimer. Involved in transcription elongation and genome stability.

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Molecular Mass	49 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ddx39b DEAD box helicase 39b [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ddx39b
Synonyms	DDX39B; DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B; spliceosome RNA helicase Ddx39b; DEAD box protein UAP56; nuclear RNA helicase Bat1; spliceosome RNA helicase Bat1; HLA-B-associated transcript 1A; 56 kDa U2AF65-associated protein; HLA-B-associated transcript 1 protein; Bat1; Bat-1; Bat1a; D6S81Eh; AI428441; D17H6S81E; D17H6S81E-1; 0610030D10Rik; MGC19235; MGC38799
Gene ID	53817
mRNA Refseq	NM_019693
Protein Refseq	NP_062667

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UniProt ID

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