Recombinant Human DDX50, His-tagged

Cat. No. DDX50-28327TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-270 of Human DDX50 with N terminal His tag; Predicted MWt 32 kDa.
Species	Human
Source	E.coli
ProteinLength	1-270 a.a.
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 DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box enzyme that may be involved in ribosomal RNA synthesis or processing. This gene and DDX21, also called RH-II/GuA, have similar genomic structures and are in tandem orientation on chromosome 10, suggesting that the two genes arose by gene duplication in evolution. This gene has pseudogenes on chromosomes 2, 3 and 4. Alternative splicing of this gene generates multiple transcript variants, but the full length nature of all the other variants but one has not been defined.
Conjugation	HIS

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilised:Reconstitute with 107 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MPGKLLWGDIMELEAPLEESESQKKERQKSDRRKSRHHYD SDEKSETRENGVTDD LDAPKAKKSKMKEKLNGDTEEGF NRLSDEFSKSHKSRRKDLPNGDIDEYEKKSKRV SSLDT STHKSSDNKLEETLTREQKEGAFSNFPISEETIKLLKG RGVTYLFPIQVKTFG PVYEGKDLIAQARTGTGKTFSFAIP LIERLQRNQETIKKSRSPKVLVLAPTRELANQV AKDFK DITRKLSVACFYGGTSYQSQINHIRNGIDILVGTPGRI
Sequence Similarities	Belongs to the DEAD box helicase family. DDX21/DDX50 subfamily.Contains 1 helicase ATP-binding domain.Contains 1 helicase C-terminal domain.

GENE INFORMATION

Gene Name	DDX50 DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 [Homo sapiens]
Official Symbol	DDX50
Synonyms	DDX50; DEAD (Asp-Glu-Ala-Asp) box polypeptide 50; ATP-dependent RNA helicase DDX50; GU2; GUB; MGC3199; RH II/GuB;
Gene ID	79009
mRNA Refseq	NM_024045
Protein Refseq	NP_076950

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	610373
Uniprot ID	Q9BQ39
Chromosome Location	10q22.2
Function	ATP binding; ATP-dependent helicase activity; RNA binding; helicase activity; hydrolase activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA