

## Recombinant Human DDX50, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 1-270 of Human DDX50 with N terminal His tag; Predicted MWt 32 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-270 a.a.
<b>Description</b>	<p>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.</p> <p>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.</p>
<b>Conjugation</b>	HIS

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<b>Form</b>	Lyophilised:Reconstitute with 107 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MPGKLLWGDIMELEAPLEESQKKERQKSDRRKSRHHYD SDEKSETRENGVTDD LDAPKAKKSKMKEKLNKDTEEGF NRLSDEFKSHKSRRKDLPNGDIDEYEKSKRV SSLDT STHKSSDNKLEETLTREQKEGAFSNFPISEETIKLLKG RGVTYLFPPIQVKTFG PVYEGKDLIAQARTGTGKTFSFAIP LIERLQRNQETIKKSRSPKVLVLAPTRELANQV AKDFK DITRKL SVACFYGGTSYQSQINHIRNGIDILVGTGPRI
<b>Sequence Similarities</b>	Belongs to the DEAD box helicase family. DDX21/DDX50 subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.

## GENE INFORMATION

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

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

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