

# Recombinant Full Length Human DDX50 Protein, GST-tagged

**Cat. No.** DDX50-2647HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human DDX50 full-length ORF ( NP_076950.1, 1 a.a. - 737 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	737 amino acids
<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. [provided by RefSeq, Jul 2008]</p>
<b>Molecular Mass</b>	109 kDa

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**AA Sequence**

MPGKLLWGDIMELEAPLEESQKKERQKSDRRKSRHHYDSDEKSETRENGVTDD  
 LDAPKAKKSKMKEKLNKDTEEGFNRLSDEFSKSHKSRRKDLPNGDIDEYEKSKRV  
 SSLDTSTHKSSDNKLEETLTREQKEGAFSNFPISEETIKLLKGRGVTYLFPVIQVKTFGP  
 VYEGKDLIAQARTGTGKTFSAIPLIERLQRNQETIKKSRSPKVLVLAPTRELANQVAK  
 DFKDITRKL SVACFYGGTSYQSQINHIRNGIDILVGTGRIKDLQSGRLDLSKLRHV  
 LDEVDQMLDLGFAEQVEDIIHESYKTDSEDNPQTLLFSATCPQWVYKVAKKYMKSR  
 YEQVDLVGKMTQKAATTVEHLAIQCHWSQRPAVIGDVLQVYSGSEGRAIIFCETKKN  
 VTEMAMNPHIKQNAQCLHGDIASQREITLKGFRREGSKVLVATNVAARGLDIPEVD  
 LVIQSSPPQDVESYIHRSGRTGRAGRTGICICFYQPRERGLRYVEQKAGITFKRVG  
 VPSTMDLVKSKSMDAIRSLASVSYAAVDFFRPSAQRLLIEEKGAVDALAAALAHISGAS  
 SFEPRLITSDKGFVTMTLESLEEIQDVSCAWKELNRKLSSNAVSQITRMCLLKGNM  
 GVCFDVPTTESERLQAEWHSDWILSVPAKLPEIEEYYDGNTSSNSRQRSGWSSG  
 RSGRSGRSGGRSGGRSGRQSRQGSRSRQDGRRRSGNRNRSRSGGHKRSFD

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**
**Gene Name**

DDX50 DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 [ Homo sapiens ]

**Official Symbol**

DDX50

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<b>Synonyms</b>	DDX50; DEAD (Asp-Glu-Ala-Asp) box polypeptide 50; ATP-dependent RNA helicase DDX50; GU2; GUB; MGC3199; RH II/GuB; gu-beta; DEAD box protein 50; nucleolar protein GU2; RNA helicase II/Gu beta; RH-II/GuB;
<b>Gene ID</b>	<a href="#">79009</a>
<b>mRNA Refseq</b>	<a href="#">NM_024045</a>
<b>Protein Refseq</b>	<a href="#">NP_076950</a>
<b>MIM</b>	<a href="#">610373</a>
<b>UniProt ID</b>	<a href="#">Q9BQ39</a>

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