

## Product datasheet for TP300990

### DDX50 (NM\_024045) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 (DDX50), 20 µg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC200990 protein sequence<br>Red=Cloning site Green=Tags(s)                          |

MPGKLLWGDIMELEAPLEESQKKERQKSDRRKSRHHYDSDEKSETRENGVTDDLDPKAKKSKMKEKL  
NGDTEEGFNRLSDEFSKSHKSRKDLPNGDIDEYEKSKRVSSLDTSTHKSSDNKLEETLTREQKEGAFS  
NFPISEETIKLLKGRGVTYLFPQVKTGPGVYEGKDLIAQARTGTGKTFSAIPLIERLQRNQETIKKSR  
SPKVLVLAPTRELANQVAKDFKDITRKLVSACFYGGTSYQSQINHIRNGIDILVGTGRIKDLQSGRLD  
LSKLRHVLDDEVQMLDLGFAEQVEDIIHESYKTDSEDNPQTLFSATCPQWVYKVAKKYMKSRYEQVDL  
VGKMTQKAATTVEHLAIQCHWSQRPAVIGDVLQVYSGSEGRAIIFCETKKNVTEMAMNPHIKQNAQCLHG  
DIAQSQREITLKGFRGSKVAVATNVAARGLDIPEVDLVIQSSPPQDVESYIHRSGRTGRAGRTGICIC  
FYQPRERQQLRYVEQKAGITFKRVGPSTMDLVKSKSMDAIRSLASVSAAVDFFRPSAQLIEEKGAVD  
ALAAALAHISGASSFEPRSLITSDKGFVTMTLESLEEIQDVSCAWKELNRKLSNAVSQITRMCLLKGNM  
GVCDFVPTTESERLQAEWHDSDWILSVPKALPEIEEYDGTSSNSRQRSGWSSGRSGRSGRSGRSGRSGR  
SGRQSRQSGSRQDGRRRSGNRNRSRSGGHKRSFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

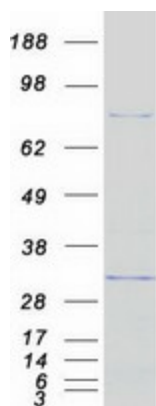
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 82.4 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |



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|                      |  |
|----------------------|--|
| <b>Stability:</b>    | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>       | <u>NP_076950</u>   |
| <b>Locus ID:</b>     | 79009  |
| <b>UniProt ID:</b>   | <u>Q9BQ39</u>  |
| <b>RefSeq Size:</b>  | 2575   |
| <b>Cytogenetics:</b> | 10q22.1  |
| <b>RefSeq ORF:</b>   | 2211   |
| <b>Synonyms:</b>     | GU2; GUB; mcdrh; RH-II/GuB   |
| <b>Summary:</b>      | 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. [provided by RefSeq, Jul 2008] |

### Product images:



Coomassie blue staining of purified DDX50 protein (Cat# TP300990). The protein was produced from HEK293T cells transfected with DDX50 cDNA clone (Cat# [RC200990]) using MegaTran 2.0 (Cat# [TT210002]).