

## Recombinant Human DDX41 protein, GST-tagged

**Cat. No.** DDX41-35H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human DDX41(1 - 144 aa) fused with GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1 - 144 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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 the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a member of the DEAD box protein family and interacts with several spliceosomal proteins. In addition, the encoded protein may recognize the bacterial second messengers cyclic di-GMP and cyclic di-AMP, resulting in the induction of genes involved in the innate immune response.</p> |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MEESEPERKRARTDEVPAGGSRSEAEDDEDYVPYVPLRQRRQLLLQKLLQRRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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KGAAEEEQQDSGSEPRGDEDDIPLGPQSNVSLLDQHQLKEKAEARKESAKEKQL  
KEEEKILESVAEGRALMSVKEMAKGITYDDPIKT

**Purity**

90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

**Storage**

Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.  
Storage of Reconstituted Protein:  
Short-term storage: Store at 2-8 centigrade for two weeks.  
Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution**

Reconstitute at 0.25  $\mu\text{g}/\mu\text{l}$  in 200  $\mu\text{l}$  sterile water for short-term storage.  
Reconstitution with 200  $\mu\text{l}$  50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).  
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).  
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## GENE INFORMATION

**Gene Name**

DDX41 DEAD (Asp-Glu-Ala-Asp) box polypeptide 41 [ Homo sapiens ]

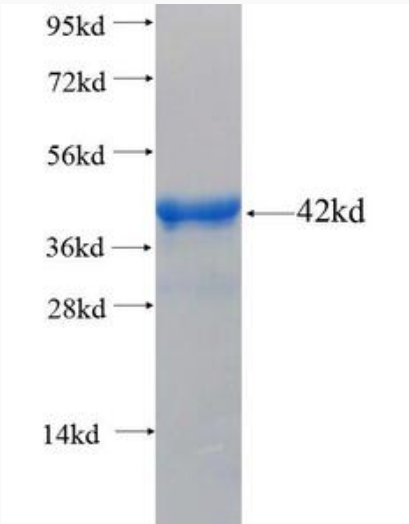
**Official Symbol**

DDX41

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|                                                                                     |                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                                                                     | DDX41; DEAD (Asp-Glu-Ala-Asp) box polypeptide 41; probable ATP-dependent RNA helicase DDX41; ABS; MGC8828; 2900024F02Rik; DEAD box protein 41; putative RNA helicase; DEAD-box protein abstrakt; DEAD box protein abstrakt homolog; |
| <b>Gene ID</b>                                                                      | <a href="#">51428</a>                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>                                                                  | <a href="#">NM_016222</a>                                                                                                                                                                                                           |
| <b>Protein Refseq</b>                                                               | <a href="#">NP_057306</a>                                                                                                                                                                                                           |
| <b>MIM</b>                                                                          | <a href="#">608170</a>                                                                                                                                                                                                              |
| <b>UniProt ID</b>                                                                   | <a href="#">Q9UJV9</a>                                                                                                                                                                                                              |
|  |                                                                                                                                                                                                                                     |