# Recombinant Full Length Human DDX4 Protein, GST-tagged

**Cat. No.** DDX4-2588HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human DDX4 full-length ORF ( AAH47455.1, 1 a.a. - 690 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 690 amino acids |
| **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 family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is a homolog of VASA proteins in Drosophila and several other species. The gene is specifically expressed in the germ cell lineage in both sexes and functions in germ cell development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009] |
| **Molecular Mass** | 102.2 kDa |
| **AA Sequence** | MGDEDWEAEINPHMSSYVPIFEKDRYSGENGDNFNRTPASSSEMDDGPSRRDHFM KSGFASGRNFGNRDAGECNKRDNTSTMGGFGVGKSFGNRGFSNSRFEDGDSSGF |

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

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| | WRESSNDCEDNPTRNRGFSKRGDNDLDPDECMQRTGGLFGSRRPVLSGTGNGDT SQSRSGSGSERGGYKGLNEEVITGSGKNSWKSEAEGGESSDTQGPKVTYIPPPPP EDEDSIFAHYQTGINFDKYDTILVEVSGHDAPPAILTFEEANLCQTLNNNIAKAGYTKL TPVQKYSIPIILAGRDLMACAQTGSGKTAAFLLPILAHMMHDGITASRFKELQEPECIIV APTRELVNKIYLEARKFSFGTCVRAVVIYGGTQLGHSIRQIVQGCNILCATPGRLMDII GKEKIGLKQIKYLVLDEADRMLDMGFGPEMKKLISCPGMPSKEQRQTLMFSATFPEE IQRLAAEFLKSNYLFVAVGQVGGACRDVQQTVLQVGQFSKREKLVEILRNIGDERTM VFVETKKKADFIATFLCQEKISTTSIHGDREQREREQALGDFRFGKCPVLVATSVAAR GLDIENVQHVINFDLPSTIDEYVHRIGRTGRCGNTGRAISFFDLESDNHLAQPLVKVL TDAQQDVPAWLEEIAFSTYIPGFSGSTRGNVFASVDTRKGKSTLNTAGFSSSQAPN PVDDESWD |
| **Applications** | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>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

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| **Gene Name** | DDX4 DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 [ Homo sapiens ] |
| **Official Symbol** | DDX4 |
| **Synonyms** | DDX4; DEAD (Asp-Glu-Ala-Asp) box polypeptide 4; DEAD/H (Asp Glu Ala Asp/His) box polypeptide 4; probable ATP-dependent RNA helicase DDX4; VASA; vasa |

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| | homolog; DEAD box protein 4; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 4; MGC111074; |
| **Gene ID** | 54514 |
| **mRNA Refseq** | NM_001142549 |
| **Protein Refseq** | NP_001136021 |
| **MIM** | 605281 |
| **UniProt ID** | Q9NQI0 |

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