

Recombinant Full Length Human DDX4 Protein, GST-tagged

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

SPECIFICATION

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	MGDEDWEAEINPHMSSYVPIFEKDRYSGENGDNFNRTPASSEMDDGPSRRDHFM KSGFASGRNFGNRDAGECNKRDNSTMGFGVGKSFNGRGSNSRFEDGDSSGF

 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

WRESSNDCEDNPTRNRGFSKRGDNDLDPDECMQRTGGLFGSRRPVLSGTGNGDT
 SQSRSGSGSERGGYKGLNEEVITGSGKNSWKSEAEGGESDQTGPKVTYIPPPPP
 EDEDSIFAHYQTGINFDKYDTILVEVSGHDAPPAILTFEEANLCQTLNNNIAKAGYTKL
 TPVQKYSIPIILAGRDLMACAQTGSGKTAFLLPILAHMMHDGITASRFKELQEPECIIV
 APTRELVNKIYLEARKFSFGTCVRAVVIYGGTQLGHSIRQIVQGCNILCATPGRLMDII
 GKEKIGLKQIKYLVLDEADRMLDMGFGPEMKKLISCPGMPSKEQRQTLMFSAFPPEE
 IQLAAEFLKSNYLFVAVGQVGGACRDVQQTVLQVGQFSKREKLVEILRNIGDERTM
 VFVETKKKADFIATFLCQEKISTTSIHGDREQREREQALGDFRFGKCPVLVATSVAAR
 GLDIENVQHVINFDPSTIDEYVHRIGRTGRCGNTGRAISFFDLESDNHLAQPLVKVL
 TDAQQDVPALWEEIAFSTYIPGFSGSTRGNVFASVDTRKKGKSTLNTAGFSSSQAPN
 PVDDSWD

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

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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