

Recombinant Full Length Human DDX4 Protein, C-Flag-tagged

Cat. No. DDX4-500HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DDX4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	79.1 kDa
AA Sequence	MGDEDWEAEINPHMSSYVPIFEKDRYSGENGDNFNRTPASSEMDDGPSRRDHFM KSGFASGRNFGNRDA GECNKRDNTSTMGGFGVGKSFGNRGFSNSRFEDGDSSG FWRESSNDCEDNPTRNRGFSKRGGYRDGNNSE ASGPYRRGGRGSGFRGCRGGF

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GLGSPNNDLDPDECMQRTGGLFGSRRPVLSGTGNGDTSQSRSGSGSERGG YKG
 LNEEVITGSGKNSWKSEAEGGESSDTQGPKVTYIPPPPEDEDSIFAHYQTGINFDK
 YDTILVEVSG HDAPPAILTFEEANLCQTLNNNIAKAGYTKLTPVQKYSIPIILAGRDLM
 ACAQTGSGKTA AFLLPILAHM MHDGITASRFKELQEPECIIVAPTRELVNQIYLEARK
 FSFGTCVRAVVIYGGTQLGHSIRQIVQGCNLC ATPGRLMDIIGKEKIGLKQIKYLVLD
 EADRMLDMGFGPEMKKLISCPGMPKSKEQRQTLMFSAFPFEEIQR LAEFLKSNYLF
 VAVGQVGGACRDVQQTVLQVGQFSKREKLVEILRNIGDERTMVFVETKKKADFIATF
 L CQEKISTTSIHGDREQREREQALGDFRFGKCPVLVATSVAARGLDIENVQHVINFD
 LPSTIDEYVHRIGR TGRCGNTGRAISFFDLESDNHLAQPLVKVLTDAQQDVPWLEE
 IAFSTYIPGFSGSTRGNVFASVDTRKG
 KSTLNTAGFSSSQAPNPVDDSWDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

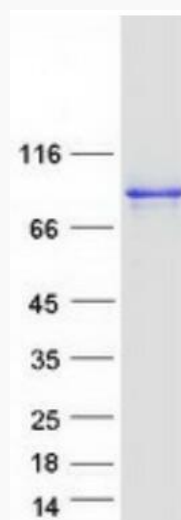
Gene Name	DDX4 DEAD-box helicase 4 [Homo sapiens (human)]
Official Symbol	DDX4

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Synonyms	VASA
Gene ID	54514
mRNA Refseq	NM_024415.3
Protein Refseq	NP_077726.1
MIM	605281
UniProt ID	Q9NQI0



Coomassie blue staining of purified DDX4 protein.