

Recombinant Human DDX4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DDX4-2012H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DDX4 MS Standard C13 and N15-labeled recombinant protein (NP_001129506) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	79.3 kDa
AA Sequence	MGDEDWEAEINPHMSSYVPIFEKDRYSGENGDNFNRTPASSEMDDGPSRRDHFM KSGFASGRNFGNRDAGECNKRDNTSTMGGFGVGKSFGNRRGFSNSRFEDGDSSGF WRESSNDCEDNPTRNRGFSKRGGYRDGNNSEASGPYRRGGRGSFRGCRGGFGL

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GSPNNDLDPDECMQRTGGLFGSRRPVLSGTGNGDTSQSRSGSGSERGGYKGLNE
 EVITGSGKNSWKSEAEGGESDQTQGPVKTYIPPPPEDEDSIFAHYQTGINFDKYDTI
 LVEVSGHDAPPAILTFEEANLCQTLNNNIAKAGYTKLTPVQKYSIPIILAGRDLMACAQ
 TGSGKTA AFLLPILAHMMHDGITASRFKELQEPECIIVAPTRELVNQIYLEARKFSFGT
 CVRAVVIYGGTQLGHSIRQIVQGCNLCATPGRLMDIIGKEKIGLKQIKYLVLDEADRM
 LDMGFPEMKKLISCPGMPKSKEQRQTLMFSAFPFEEIQLAAEFLKSNYLFVAVGQV
 GGACRDVQQTVLQVGQFSKREKLVEILRNIGDERTMVFVETKKKADFIATFLCQEKIS
 TTSIHGDREQREREQALGDFRFGKCPVLVATSVAARGLDIENVQHVINFDLPSTIDEY
 VHRIGRTGRCGNTGRAISFFDLESDNHLAQPLVKVLTDAQQDVPWLEEIAFSTYIP
 GFSGSTRGNVFASVDTRKGKSTLNTAGFSSSQAPNPVDDSWDTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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](#)

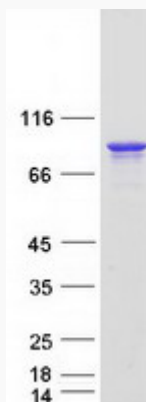
mRNA Refseq [NM_001136034](#)

Protein Refseq [NP_001129506](#)

MIM [605281](#)

UniProt ID [Q9NQI0](#)

SDS-PAGE



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