

[Go to Product page](#)

Datasheet for ABIN7553626  
**DDX4 Protein (AA 1-724) (His tag)**

## Overview

Quantity:	1 mg
Target:	DDX4
Protein Characteristics:	AA 1-724
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat DDX4 Protein expressed in mammalien cells.
Sequence:	MGDEDWEAEI NPHMSSYVPI FEKDRYGEN GDNFNRTPAS SSEMDDGPSR RDHFMKSGFA SGRNFGNRDA GECNKRDNST TMGGFGVGKS FGNRGFSNSR FEDGDSSGFW RESSNDCEDN PTRNRGFSKR GGYRDGNNSE ASGPYRRGGR GSFRGCRGGF GLGSPNNDLD PDECMQRTGG LFGSRRPVLS GTGNGDTSQS RSGSGSERGG YKGLNEEVIT GSGKNSWKSE AEGGESSDTQ GPKVTYIPPP PPEDEDSIFA HYQTGINFDK YDTILVEVSG HDAPPAILTF EEANLCQTLN NNTAKAGYTK LTPVQKYSIP ILAGRDLMA CAQTGSGKTA AFLLPILAHM MHDGITASRF KELQEPECII VAPTRELVNQ IYLEARKFSF GTCVRAVIY GGTQLGHSIR QIVQGCNLC ATPGRLMDII GKEKIGLKQI KYLVLDEADR MLDMGFGPEM KKLISCPGMP SKEQRQTLMF SATFPEEIQR LAAEFLKSNY LFAVAVQVGG ACRDVQQTVL QVGFQSKREK LVEILRNIGD ERTMVFVETK KKADFIATFL CQEKISTTSI HGDREQRERE QALGDFRFGK CPVLVATSV ARGLDIENVQ HVINFDLPST IDEYVHRIGR TGRCGNTGRA ISFFDLESDN HLAQPLVKVL

TDAQDVPAW LEEIAFSTYI PGFSGSTRGN VFASVDTRKG KSTLNTAGFS SSQAPNPVDD ESWD

**Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

DDX4

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### Alternative Name:

DDX4 ([DDX4 Products](#))

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### Background:

Probable ATP-dependent RNA helicase DDX4 (EC 3.6.4.13) (DEAD box protein 4) (Vasa homolog),FUNCTION: ATP-dependent RNA helicase required during spermatogenesis (PubMed:10920202, PubMed:21034600). Required to repress transposable elements and preventing their mobilization, which is essential for the germline integrity (By similarity). Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons (By similarity). Involved in the secondary piRNAs metabolic process, the production of piRNAs in fetal male germ cells through a ping-pong amplification cycle (By similarity). Required for PIWIL2 slicing-triggered

## Target Details

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piRNA biogenesis: helicase activity enables utilization of one of the slice cleavage fragments generated by PIWIL2 and processing these pre-piRNAs into piRNAs (By similarity).  
{ECO:0000250|UniProtKB:Q61496, ECO:0000269|PubMed:10920202, ECO:0000269|PubMed:21034600}.

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Molecular Weight: 79.3 kDa

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UniProt: [Q9NQI0](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months