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Datasheet for ABIN3092095

## DHX37 Protein (AA 1-1157) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	DHX37
Protein Characteristics:	AA 1-1157
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX37 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence:	<p>MGKLRRRYNI KGRQQAGPGP SKGPPEPPPV QLELEDKDTL KGVDASNALV LPGKKKKKTK APPLSKKEKK PLTKKEKKVL QKILEQKEKK SQRAEMLQKL SEVQASEAEM RLFYTTSKLG TGNRMVYHTKE KADEVVAPGQ EKISSLSGAH RKRRRWPSAE EEEEEEESE SELEEESELD EDPAAEPAEA GVGTTVAPLP PAPAPSSQPV PAGMTVPPPP AAAPPLPRAL AKPAVFIPVN RSPERMQEERL KLPILSEEQV IMEAVAEPHI VIVCGETGSG KTTQVPQFLY EAGFSSEDSI IGVTEPRRVA AVAMSQRVAK EMNLSQRVVS YQIRYEGNVT EETRIKFMTD GVLLKEIQKD FLLRYKVI IDEAHERSVY TDILIGLLSR IVTLRAKRNL PLKLLIMSAT LRVEDFTQNP RLFKPPPV KVESRQFPVT VHFNKRTPLD DYSGECFRKV CKIHRMLPAG GILVFLTGQA EVHALCRRLR KAFPPSRARP QEKDDDQKDS VEEMRKFKKS RARAKKARAE VLPQINLDHY SVLPAGEGDE DREAEDVEEE GALDSDLDLG LGDGGQDGGG QPDASLPLHV LPLYSLLAPE KQAQVFKPPP EGTRLCVVAT NVAETSLTIP GIKYVVDCGK VVKRYYDRVT GVSSFRVTWV SQASADQRAG RAGRTEPGHC YRLYSSAVFG DFEQFPPPEI TRRPVEDLIL QMKALNVEKV INFPFPTPPS</p>
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VEALLAAEEL LIALGALQPP QKAERVKQLQ ENRLSCPITA LGRTMATFPV APRYAKMLAL  
SRQHGLPYA ITIVASMTVR ELFEELDRPA ASDEELTRLK SKRARVAQMK RTWAGQGASL  
KLGDLMVLLG AVGACEYASC TPQFCEANGL RYKAMMEIRR LRGQLTTAVN AVCPEAELFV  
DPKMQPPTES QVTYLRQIVT AGLGDHLARR VQSEEMLEDK WRNAYKTPLL DDPVFIHPSS  
VLFKELPEFV VYQEIVETTK MYMKGVSSE VQWIPALLPS YCQFDKPLEE PPTYCPERG  
RVLCHRASVF YRVGWPLPAI EVDFPEGIDR YKHFARFLE GQVFRKLASY RSCLLSSPGT  
MLKTWARLQP RTESLLRALV AEKADCHEAL LAAWKKNPKY LLAEYCEWLP QAMHPDIEKA  
WPPTTVH

**Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

## Product Details

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### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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### Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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### Grade:

Crystallography grade

## Target Details

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### Target:

DHX37

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### Alternative Name:

DHX37 ([DHX37 Products](#))

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### Background:

Probable ATP-dependent RNA helicase DHX37 (EC 3.6.4.13) (DEAH box protein 37),FUNCTION: ATP-binding RNA helicase that plays a role in maturation of the small ribosomal subunit in ribosome biogenesis (PubMed:30582406). Required for the release of the U3 snoRNP from pre-ribosomal particles (PubMed:30582406). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). Plays a role in early testis development (PubMed:31287541, PubMed:31337883). Probably also plays a role in brain development (PubMed:31256877). {ECO:0000269|PubMed:30582406, ECO:0000269|PubMed:31256877, ECO:0000269|PubMed:31287541, ECO:0000269|PubMed:31337883, ECO:0000269|PubMed:34516797}.

## Target Details

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Molecular Weight: 129.5 kDa

UniProt: [Q8IY37](#)

## 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.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process