

Datasheet for ABIN3092153  
DHX15 Protein (AA 1-795) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	DHX15
Protein Characteristics:	AA 1-795
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX15 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MSKRHRLDLG EDYPSGKKRA GTDGKDRDRD RDREDRSKDR DRERDRGDRE REREKEKEKE LRASTNAMLI SAGLPPLKAS HSAHSTHSAH STHSTHSAHS THAGHAGHTS LPQCINPFTN LPHTPRYYDI LKKRLQLPVW EYKDRFTDIL VRHQSFVLVG ETGSGKTTQI PQWCVEYMRS LPGPKRGVAC TQPRRVAAMS VAQRVADEM VMLGQEVGYS IRFEDCSSAK TILKYMTDGM LLREAMNDPL LERYGVILD EAHERTLATD ILMGVLKEVV RQRSDLKVIV MSATLDAGKF QIYFDNCPLL TIPGRTHPVE IFYTPEPERD YLEAAIRTVI QIHMCEEEEG DLLLFLTGQE EIDEACKRIK REVDDLGPVE GDIKIIPLYS TLPPQQQQRI FEPPPPKKQN GAIGRKVVVS TNIAETSLTI DGVVFVIDPG FAKQKVYNPR IRVESLLVTA ISKASAQRA GRAGRTRPGK CFRLYTEKAY KTEMQDNTYP EILRSNLGSV VLQLKKLGID DLVHFDMDP PAPETLMRAL ELLNYLAALN DDGDLTELGS MMAEFPLDPQ LAKMVIASCD YNCSNEVLSI TAMLSVPQCF VRPTEAKKAA DEAKMRFAHI DGDHLTLLNV YHAFKQNHES VQWCYDNFIN YRSLMSADNV RQQLSRIMDR FNLPRRSTDF TSRDYYINIR KALVTGYFMQ VAHLERTGHY LTVKDNQVVQ LHPSTVLDHK
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PEWVLYNEFV LTTKNYIRTC TDIKPEWLVK IAPQYYDMSN FPQCEAKRQL DRIIAKLQSK EYSQY

**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!

#### 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

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## Product Details

(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.

Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	DHX15
Alternative Name:	DHX15 ( <a href="#">DHX15 Products</a> )
Background:	<p>ATP-dependent RNA helicase DHX15 (EC 3.6.4.13) (ATP-dependent RNA helicase #46) (DEAH box protein 15) (Splicing factor Prp43) (hPrp43),FUNCTION: RNA helicase involved in mRNA processing and antiviral innate immunity (PubMed:19432882, PubMed:19103666, PubMed:32179686, PubMed:24990078, PubMed:24782566, PubMed:34161762). Pre-mRNA processing factor involved in disassembly of spliceosomes after the release of mature mRNA (PubMed:19103666). In cooperation with TFIP11 seem to be involved in the transition of the U2, U5 and U6 snRNP-containing IL complex to the snRNP-free IS complex leading to efficient debranching and turnover of excised introns (PubMed:19103666). Plays a key role in antiviral innate immunity by promoting both MAVS-dependent signaling and NLRP6 inflammasome (PubMed:24990078, PubMed:24782566, PubMed:34161762). Acts as an RNA virus sensor: recognizes and binds viral double stranded RNA (dsRNA) and activates the MAVS-dependent signaling to produce interferon-beta and interferon lambda-3 (IFNL3) (PubMed:24990078, PubMed:24782566, PubMed:34161762). Involved in intestinal antiviral innate immunity together with NLRP6: recognizes and binds viral dsRNA and promotes activation of the NLRP6 inflammasome in intestinal epithelial cells to restrict infection by enteric viruses (PubMed:34161762). The NLRP6 inflammasome acts by promoting maturation and secretion of IL18 in the extracellular milieu (PubMed:34161762). Also involved in antibacterial innate immunity by promoting Wnt-induced antimicrobial protein expression in Paneth cells (By similarity). {ECO:0000250 UniProtKB:O35286, ECO:0000269 PubMed:19103666, ECO:0000269 PubMed:19432882, ECO:0000269 PubMed:24782566, ECO:0000269 PubMed:24990078, ECO:0000269 PubMed:32179686,</p>

## Target Details

	ECO:0000269 PubMed:34161762}.
Molecular Weight:	90.9 kDa
UniProt:	<a href="#">O43143</a>

## Application Details

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

## Handling

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