

Datasheet for ABIN3092154

## DHX29 Protein (AA 1-1369) (Strep Tag)



[Go to Product page](#)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	DHX29
Protein Characteristics:	AA 1-1369
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX29 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MGGKNKKHKA PAAAVVRAAV SASRAKSAEA GIAGEAQSKK PVS RPATAAA AAAGSREPRV  
 KQGPKIYSFN STNDSSGPAN LDKSILKVVI NNKLEQRIIG VINEHKKQNN DKGMISGRLT  
 AKKLQDLYMA LQAFSFKTKD IEDAMTNTLL YGGDLHSALD WLCLNLSDDA LPEGFSQEFE  
 EQQPKSRPKF QSPQIQATIS PPLQPCKTKTY EEDPKSKPKK EEKNMEVNMK EWILRYAEQQ  
 NEEENKNSK SLEEEEFKDP NERYLHLLAAK LLDAKEQAAT FKLEKNKQGQ KEAQEKIRKF  
 QREMETLEDH PVFNPAMKIS HQQNERKKPP VATEGESALN FNLFEKSAAA TEEEKDKKKE  
 PHDVRNFDYT ARSWTGKSPK QFLIDWVRKN LPKSPNPSFE KVPVGRYWK RVRVIKSEDD  
 VLVVCP TILT EDGMAQHLG ATLALYRLVK GQSVHQLLPP TYRDVWLEWS DAEKKREELN  
 KMETNKPRDL FIAKLLNKLK QQQQQQQHS ENKRENSDP EESWENLVSD EDFSALSLES  
 ANVEDLEPVR NLFRLKQSTP KYQKLLKERQ QLPVFKHRDS IVETLKRHRV VVAGETGSG  
 KSTQVPHFLL EDLLLNEWEA SKCNIVCTQP RRISAVSLAN RVCDELGCEN GPGGRNSLCG  
 YQIRMESRAC ESTRLLYCTT GVLLRKLQED GLLSNVSHVI VDEVHERSVQ SDFLLIILKE

ILQKRSDLHL ILMSATVDSE KFSTYFTHCP ILRISGRSYP VEVFHLEDII EETGFVLEKD  
SEYCQKFLLEE EEEVTINVT S KAGGIKKYQE YIPVQTGAHA DLNPFYQKYS SRTQHAILYM  
NPHKINLDLI LELLAYLDKS PQFRNIEGAV LIFLPGLAHI QQLYDLLSND RRFYSERYKV  
IALHSILSTQ DQAAAFTLPP PGVRKIVLAT NIAETGITIP DVVFDITGR TKENKYHESS  
QMSSLVETFV SKASALQRQG RAGRVRDGF C FRMYTRERFE GFMDYSVPEI LRVPLEELCL  
HIMKCNLGSP EDFLSKALDP PQLQVISNAM NLLRKIGACE LNEPKLTPLG QHLAALPVNV  
KIGKMLIFGA IFGCLDPVAT LAAVMTEKSP FTTPIGRKDE ADLAKSALAM ADSDHLYIYN  
AYLGWKKARQ EGGYRSEITY CRRNFLNRTS LLTLEDVKQE LIKLVKAAGF SSSTTSTSWE  
GNRASQTL SF QEIALLKAVL VAGLYDNV GK IYTKSVDVT EKLACIVETA QGKAQVHPSS  
VNRDLQTHGW LLYQE KIRYA RVYLRETTLI TPFPVLLFGG DIEVQHRERL LSIDGWIFYQ  
APVKIAVIFK QLRVLIDSVL RKKLENPKMS LENDKILQII TELIKTENN

**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

## Product Details

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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 (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	DHX29
Alternative Name:	DHX29 ( <a href="#">DHX29 Products</a> )
Background:	ATP-dependent RNA helicase DHX29 (EC 3.6.4.13) (DEAH box protein 29) (Nucleic acid helicase DDx),FUNCTION: ATP-binding RNA helicase involved in translation initiation. Part of the 43S pre-initiation complex that is required for efficient initiation on mRNAs of higher eukaryotes with structured 5'-UTRs by promoting efficient NTPase-dependent 48S complex formation. Specifically binds to the 40S ribosome near the mRNA entrance. Does not possess a processive helicase activity. {ECO:0000255 HAMAP-Rule:MF_03068, ECO:0000269 PubMed:19109895, ECO:0000269 PubMed:23706745}.
Molecular Weight:	155.2 kDa
UniProt:	<a href="#">Q7Z478</a>

## 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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**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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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

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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:** Unlimited (if stored properly)

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