

Datasheet for ABIN3092154

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



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### Overview

Quantity:	250 µg
Target:	DHX29
Protein Characteristics:	AA 1-1369
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX29 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MGGKNKKHKA PAAAVVRAAV SASRAKSAEA GIAGEAQSKK PVS RPATAAA AAAGSREPRV</p> <p>KQGPKIYSFN STNDSSGPAN LDKSILKVVI NNKLEQRIIG VINEHKKQNN DKGMISGRLT</p> <p>AKKLQDLYMA LQAFSFKTKD IEDAMTNTLL YGGDLHSALD WLCLNLSDDA LPEGFSQEFE</p> <p>EQQPKSRPKF QSPQIQATIS PPLQPKTKTY EEDPKSKPKK EEKNMEVNMK EWILRYAEQQ</p> <p>NEEEEKNENSK SLEEEEFKDP NERYLHLAAK LLDAKEQAAT FKLEKNKQGQ KEAQEKIRKF</p> <p>QREMETLEDH PVFNPAMKIS HQQNERKKPP VATEGESALN FNLFEKSAAA TEEEDKDKKE</p> <p>PHDVRNFDYT ARSWTGKSPK QFLIDWVRKN LPKSPNPSFE KVPVGRYWKC RVRVIKSEDD</p> <p>VLVVCPTILT EDGMAQHLG ATLALYRLVK GQSVHQLLPP TYRDVWLEWS DAEKKREELN</p> <p>KMETNKPRDL FIAKLLNKLK QQQQQQQQS ENKRENSDP EESWENLVSD EDFSALSLES</p> <p>ANVEDLEPVR NLFRLQSTP KYQKLLKERQ QLPVFKHRDS IVETLKRHRV VVVAGETGSG</p> <p>KSTQVPHFLL EDLLLNEWEA SKCNIVCTQP RRISAVSLAN RVCDELGCEN GPGGRNSLCG</p>

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 DVVFVIDTGR TKENKYHESS  
QMSSSLVETFV SKASALQRQG RAGRVRDGF C FRMYTRERFE GFMDYSVPEI LRVPLEELCL  
HIMKCNLGSP EDFLSKALDP PQLQVISNAM NLLRKIGACE LNEPKLTPLG QHLAALPVNV  
KIGKMLIFGA IFGCLDPVAT LAAVMTEKSP FTTPIGRKDE ADLAKSALAM ADSDHITIYN  
AYLGWKKARQ EGGYRSEITY CRRNFLNRTS LLTLEDVKQE LIKLVKAAGF SSSTTSTSWE  
GNRASQTLSF QEIALLKAVL VAGLYDNVGK IYTKSVDVT EKLACIVETA QGKAQVHPSS  
VNRDLQTHGW LLYQEIRYA RVYLRETTLI TFPVLLFGG DIEVQHRERL LSIDGWIYFQ  
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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

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 DDXx),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

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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months