

Datasheet for ABIN3092155 DHX36 Protein (AA 1-1008) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DHX36
Protein Characteristics:	AA 1-1008
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX36 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSYDYHQNWG RDGGPRSSGG GYGGGPAGGH GGNRGSGGGG GGGGGGRGGR GRHPGHLKGR
	EIGMWYAKKQ GQKNKEAERQ ERAVVHMDER REEQIVQLLN SVQAKNDKES EAQISWFAPE
	DHGYGTEVST KNTPCSENKL DIQEKKLINQ EKKMFRIRNR SYIDRDSEYL LQENEPDGTL
	DQKLLEDLQK KKNDLRYIEM QHFREKLPSY GMQKELVNLI DNHQVTVISG ETGCGKTTQV
	TQFILDNYIE RGKGSACRIV CTQPRRISAI SVAERVAAER AESCGSGNST GYQIRLQSRL
	PRKQGSILYC TTGIILQWLQ SDPYLSSVSH IVLDEIHERN LQSDVLMTVV KDLLNFRSDL
	KVILMSATLN AEKFSEYFGN CPMIHIPGFT FPVVEYLLED VIEKIRYVPE QKEHRSQFKR
	GFMQGHVNRQ EKEEKEAIYK ERWPDYVREL RRRYSASTVD VIEMMEDDKV DLNLIVALIR
	YIVLEEEDGA ILVFLPGWDN ISTLHDLLMS QVMFKSDKFL IIPLHSLMPT VNQTQVFKRT
	PPGVRKIVIA TNIAETSITI DDVVYVIDGG KIKETHFDTQ NNISTMSAEW VSKANAKQRK
	GRAGRVQPGH CYHLYNGLRA SLLDDYQLPE ILRTPLEELC LQIKILRLGG IAYFLSRLMD

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN3092155 | 02/26/2025 | Copyright antibodies-online. All rights reserved. PPSNEAVLLS IRHLMELNAL DKQEELTPLG VHLARLPVEP HIGKMILFGA LFCCLDPVLT
IAASLSFKDP FVIPLGKEKI ADARRKELAK DTRSDHLTVV NAFEGWEEAR RRGFRYEKDY
CWEYFLSSNT LQMLHNMKGQ FAEHLLGAGF VSSRNPKDPE SNINSDNEKI IKAVICAGLY
PKVAKIRLNL GKKRKMVKVY TKTDGLVAVH PKSVNVEQTD FHYNWLIYHL KMRTSSIYLY
DCTEVSPYCL LFFGGDISIQ KDNDQETIAV DEWIVFQSPA RIAHLVKELR KELDILLQEK
IESPHPVDWN DTKSRDCAVL SAIIDLIKTQ EKATPRNFPP RFQDGYYS
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.

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
 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.

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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:	DHX36
Alternative Name:	DHX36 (DHX36 Products)
Background:	ATP-dependent DNA/RNA helicase DHX36 (EC 3.6.4.12) (EC 3.6.4.13) (DEAD/H box polypeptide
	36) (DEAH-box protein 36) (G4-resolvase-1) (G4R1) (MLE-like protein 1) (RNA helicase
	associated with AU-rich element protein),FUNCTION: Multifunctional ATP-dependent helicase
	that unwinds G-quadruplex (G4) structures (PubMed:16150737, PubMed:18854321,
	PubMed:20472641, PubMed:21586581). Plays a role in many biological processes such as
	genomic integrity, gene expression regulations and as a sensor to initiate antiviral responses
	(PubMed:14731398, PubMed:18279852, PubMed:21993297, PubMed:22238380,
	PubMed:25579584). G4 structures correspond to helical structures containing guanine tetrads
	(By similarity). Binds with high affinity to and unwinds G4 structures that are formed in nucleic
	acids (G4-ADN and G4-RNA) (PubMed:16150737, PubMed:18842585, PubMed:20472641,
	PubMed:21586581, PubMed:24369427, PubMed:26195789). Plays a role in genomic integrity
	(PubMed:22238380). Converts the G4-RNA structure present in telomerase RNA template
	component (TREC) into a double-stranded RNA to promote P1 helix formation that acts as a
	template boundary ensuring accurate reverse transcription (PubMed:20472641,
	PubMed:21149580, PubMed:21846770, PubMed:22238380, PubMed:24151078,
	PubMed:25579584). Plays a role in transcriptional regulation (PubMed:21586581,
	PubMed:21993297). Resolves G4-DNA structures in promoters of genes, such as YY1, KIT/c-kit
	and ALPL and positively regulates their expression (PubMed:21993297). Plays a role in post-
	transcriptional regulation (PubMed:27940037). Unwinds a G4-RNA structure located in the 3'-
	UTR polyadenylation site of the pre-mRNA TP53 and stimulates TP53 pre-mRNA 3'-end
	processing in response to ultraviolet (UV)-induced DNA damage (PubMed:27940037). Binds to
	the precursor-microRNA-134 (pre-miR-134) terminal loop and regulates its transport into the
	synapto-dendritic compartment (By similarity). Involved in the pre-miR-134-dependent inhibition

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of target gene expression and the control of dendritic spine size (By similarity). Plays a role in
the regulation of cytoplasmic mRNA translation and mRNA stability (PubMed:24369427,
PubMed:26489465). Binds to both G4-RNA structures and alternative non-quadruplex-forming
sequence within the 3'-UTR of the PITX1 mRNA regulating negatively PITX1 protein expression
(PubMed:24369427). Binds to both G4-RNA structure in the 5'-UTR and AU-rich elements
(AREs) localized in the 3'-UTR of NKX2-5 mRNA to either stimulate protein translation or induce
mRNA decay in an ELAVL1-dependent manner, respectively (PubMed:26489465). Binds also to
ARE sequences present in several mRNAs mediating exosome-mediated 3'-5' mRNA
degradation (PubMed:14731398, PubMed:18279852). Involved in cytoplasmic urokinase-type
plasminogen activator (uPA) mRNA decay (PubMed:14731398). Component of a multi-
helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA
(dsRNA) and plays a role in the activation of a cascade of antiviral responses including the
induction of pro-inflammatory cytokines via the adapter molecule TICAM1 (By similarity).
Required for early embryonic development and hematopoiesis. Involved in the regulation of
cardioblast differentiation and proliferation during heart development. Involved in
spermatogonia differentiation. May play a role in ossification (By similarity).
{EC0:0000250 UniProtKB:D4A2Z8, EC0:0000250 UniProtKB:Q05B79,
EC0:0000250 UniProtKB:Q8VHK9, EC0:0000269 PubMed:14731398,
ECO:0000269 PubMed:16150737, ECO:0000269 PubMed:18279852,
EC0:0000269 PubMed:18842585, EC0:0000269 PubMed:18854321,
EC0:0000269 PubMed:20472641, EC0:0000269 PubMed:21149580,
EC0:0000269 PubMed:21586581, EC0:0000269 PubMed:21846770,
EC0:0000269 PubMed:21993297, EC0:0000269 PubMed:22238380,
EC0:0000269 PubMed:24151078, EC0:0000269 PubMed:24369427,
EC0:0000269 PubMed:25579584, EC0:0000269 PubMed:26195789,
EC0:0000269 PubMed:26489465, EC0:0000269 PubMed:27940037}.

Molecular Weight:	114.8 kDa
UniProt:	Q9H2U1
Pathways:	Toll-Like Receptors Cascades

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.

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Application Details

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

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