

Datasheet for ABIN3136749 DHX36 Protein (AA 1-1001) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DHX36
Protein Characteristics:	AA 1-1001
Origin:	Mouse
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:	MSYDYHQSWS RDGGPRGSGQ GSSGGGGGGS RGSGGGGGG GGRGRHPAHL KGREIGLWYA
	KKQTQKNKEA ERQERAVVHM DERREEQIVQ LLNSVQAKTD KDSEAQISWF APEDHGYGTE
	VSSEKKINSE KKLDNQEKKL LNQEKKTFRI TDKSYIDRDS EYLLQENEPN LSLDQHLLED
	LQRKKTDPRY IEMQRFRKKL PSYGMQKELV NLINNHQVTV ISGETGCGKT TQVTQFILDN
	YIERGKGSAC RIVCTQPRRI SAISVAERVA TERAESCGNG NSTGYQIRLQ SRLPRKQGSI
	LYCTTGIILQ WLQSDSRLSS VSHIVLDEIH ERNLQSDVLM TVIKDLLHFR SDLKVILMSA
	TLNAEKFSEY FGNCPMIHIP GFTFPVVEYL LEDIIEKIRY VPDQKEHRSQ FKRGFMQGHV
	NRQEKEEKEA IYKERWPAYI KELRTRYSAS TVDVLQMMDD DKVDLNLIAA LIRYIVLEEE
	DGAILVFLPG WDNISTLHDL LMSQVMFKSD KFLIIPLHSL MPTVNQTQVF KKTPPGVRKI
	VIATNIAETS ITIDDVVYVI DGGKIKETHF DTQNNISTMS AEWVSKANAK QRKGRAGRVQ
	PGHCYHLYNG LRASLLDDYQ LPEILRTPLE ELCLQIKILR LGGIAYFLSR LMDPPSNEAV

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 ABIN3136749 | 02/26/2025 | Copyright antibodies-online. All rights reserved. VLSIKHLMEL SALDKQEELT PLGVHLARLP VEPHIGKMIL FGALFCCLDP VLTIAASLSF KDPFVIPLGK EKIADARRKE LAKETRSDHL TVVNAFEGWE EAKRRGFRYE KDYCWEYFLS SNTLQMLHNM KGQFAEHLLG AGFVSSRSPK DPKANINSDN EKIIKAVICA GLYPKVAKIR LNLGKKRKMV KVHTKSDGLV SIHPKSVNVE QTDFHYNWLI YHLKMRTSSI YLYDCTEVSP YCLLFFGGDI SIQKDKDQEI IAVDEWIVFQ SPERIAHLVK GLRKELDSLL QEKIESPHPV DWDDTKSRDC AVLSAILDLI KTQEKATPRN LPPRSQDGYY S

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 3.6.4.13) (DEAD/H box polypeptide 36) (DEAH
	box protein 36) (MLE-like protein 1) (RNA helicase associated with AU-rich element
	ARE),FUNCTION: Multifunctional ATP-dependent helicase that unwinds G-quadruplex (G4)
	structures (PubMed:25611385). Plays a role in many biological processes such as genomic
	integrity, gene expression regulations and as a sensor to initiate antiviral responses
	(PubMed:21703541, PubMed:21590736). 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) (By similarity). Plays a role in genomic
	integrity (By similarity). 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 (By similarity). Plays a role in
	transcriptional regulation. Resolves G4-DNA structures in promoters of genes, such as YY1,
	KIT/c-kit and ALPL and positively regulates their expression (PubMed:25611385) (By similarity).
	Plays a role in post-transcriptional regulation (By similarity). 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 (By similarity).
	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 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 (By similarity).
	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 (By similarity). Binds
	to both G4-RNA structure in the 5'-UTR and AU-rich elements (AREs) localized in the 3'-UTR of

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	NKX2-5 mRNA to either stimulate protein translation or induce mRNA decay in an ELAVL1-
	dependent manner, respectively (By similarity). Binds also to ARE sequences present in several
	mRNAs mediating exosome-mediated 3'-5' mRNA degradation (By similarity). Involved in
	cytoplasmic urokinase-type plasminogen activator (uPA) mRNA decay (By similarity).
	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 (PubMed:21703541). Required for the early embryonic development and
	hematopoiesis (PubMed:22422825). Involved in the regulation of cardioblast differentiation and
	proliferation during heart development (PubMed:26489465). Involved in spermatogonia
	differentiation (PubMed:25611385). May play a role in ossification (PubMed:21590736).
	{EC0:0000250 UniProtKB:D4A2Z8, EC0:0000250 UniProtKB:Q05B79,
	ECO:0000250 UniProtKB:Q9H2U1, ECO:0000269 PubMed:21590736,
	ECO:0000269 PubMed:21703541, ECO:0000269 PubMed:22422825,
	ECO:0000269 PubMed:25611385, ECO:0000269 PubMed:26489465}.
Molecular Weight:	113.9 kDa
UniProt:	Q8VHK9
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.
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

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Handling

Format:	Liquid
Buffer:	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 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months