

Datasheet for ABIN3135827 DDX58 Protein (AA 1-926) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DDX58
Protein Characteristics:	AA 1-926
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX58 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTAEQRQNLQ AFRDYIKKIL DPTYILSYMS SWLEDEEVQY IQAEKNNKGP MEAASLFLQY
	LLKLQSEGWF QAFLDALYHA GYCGLCEAIE SWDFQKIEKL EEHRLLLRRL EPEFKATVDP
	NDILSELSEC LINQECEEIR QIRDTKGRMA GAEKMAECLI RSDKENWPKV LQLALEKDNS
	KFSELWIVDK GFKRAESKAD EDDGAEASSI QIFIQEEPEC QNLSQNPGPP SEASSNNLHS
	PLKPRNYQLE LALPAKKGKN TIICAPTGCG KTFVSLLICE HHLKKFPCGQ KGKVVFFANQ
	IPVYEQQATV FSRYFERLGY NIASISGATS DSVSVQHIIE DNDIIILTPQ ILVNNLNNGA IPSLSVFTLM
	IFDECHNTSK NHPYNQIMFR YLDHKLGESR DPLPQVVGLT ASVGVGDAKT AEEAMQHICK
	LCAALDASVI ATVRDNVAEL EQVVYKPQKI SRKVASRTSN TFKCIISQLM KETEKLAKDV
	SEELGKLFQI QNREFGTQKY EQWIVGVHKA CSVFQMADKE EESRVCKALF LYTSHLRKYN
	DALIISEDAQ MTDALNYLKA FFHDVREAAF DETERELTRR FEEKLEELEK VSRDPSNENP
	KLRDLYLVLQ EEYHLKPETK TILFVKTRAL VDALKKWIEE NPALSFLKPG ILTGRGRTNR

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 1/4 | Product datasheet for ABIN3135827 | 02/25/2025 | Copyright antibodies-online. All rights reserved. ATGMTLPAQK CVLEAFRASG DNNILIATSV ADEGIDIAEC NLVILYEYVG NVIKMIQTRG RGRARDSKCF LLTSSADVIE KEKANMIKEK IMNESILRLQ TWDEMKFGKT VHRIQVNEKL LRDSQHKPQP VPDKENKKLL CGKCKNFACY TADIRVVETS HYTVLGDAFK ERFVCKPHPK PKIYDNFEKK AKIFCAKQNC SHDWGIFVRY KTFEIPVIKI ESFVVEDIVS GVQNRHSKWK DFHFERIQFD PAEMSV

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 posttranslational 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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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:	DDX58
Alternative Name:	Rigi (DDX58 Products)
Background:	Antiviral innate immune response receptor RIG-I (ATP-dependent RNA helicase DDX58) (EC
	3.6.4.13) (DEAD box protein 58) (RIG-I-like receptor 1) (RLR-1) (RNA sensor RIG-I) (Retinoic acid-
	inducible gene 1 protein) (RIG-1) (Retinoic acid-inducible gene I protein) (RIG-I),FUNCTION:
	Innate immune receptor that senses cytoplasmic viral nucleic acids and activates a
	downstream signaling cascade leading to the production of type I interferons and pro-
	inflammatory cytokines. Forms a ribonucleoprotein complex with viral RNAs on which it
	homooligomerizes to form filaments. The homooligomerization allows the recruitment of
	RNF135 an E3 ubiquitin-protein ligase that activates and amplifies the RIG-I-mediated antiviral
	signaling in an RNA length-dependent manner through ubiquitination-dependent and -
	independent mechanisms. Upon activation, associates with mitochondria antiviral signaling
	protein (MAVS/IPS1) that activates the IKK-related kinases TBK1 and IKBKE which in turn
	phosphorylate the interferon regulatory factors IRF3 and IRF7, activating transcription of
	antiviral immunological genes including the IFN-alpha and IFN-beta interferons. Ligands
	include: 5'-triphosphorylated ssRNA and dsRNA and short dsRNA (<1 kb in length). In addition
	to the 5'-triphosphate moiety, blunt-end base pairing at the 5'-end of the RNA is very essential.
	Overhangs at the non-triphosphorylated end of the dsRNA RNA have no major impact on its
	activity. A 3'overhang at the 5'triphosphate end decreases and any 5'overhang at the 5'
	triphosphate end abolishes its activity. Detects both positive and negative strand RNA viruses
	including members of the families Paramyxoviridae: Sendai virus (SeV), Rhabdoviridae and
	Flaviviridae. It also detects rotavirus and orthoreovirus. Also involved in antiviral signaling in
	response to viruses containing a dsDNA genome. Detects dsRNA produced from non-self
	dsDNA by RNA polymerase III. May play important roles in granulocyte production and
	differentiation, bacterial phagocytosis and in the regulation of cell migration.
	{ECO:0000269 PubMed:16039576, ECO:0000269 PubMed:16625202,

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Target Details	
	ECO:0000269 PubMed:17942531, ECO:0000269 PubMed:19576794,
	EC0:0000269 PubMed:19609254, EC0:0000269 PubMed:19631370}.
Molecular Weight:	106.0 kDa
UniProt:	Q6Q899
Pathways:	Activation of Innate immune Response, Hepatitis C
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
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

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