Datasheet for ABIN3115566

ATG9B Protein (AA 1-924) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ATG9B
Protein Characteristics:	AA 1-924
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG9B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MVSRMGWGGR RRRLGRWGDL GPGSVPLLPM PLPPPPPPSC RGPGGGRISI FSLSPAPHTR SSPSSFSPPT AGPPCSVLQG TGASQSCHSA LPIPATPPTQ AQPAMTPASA SPSWGSHSTP PLAPATPTPS QQCPQDSPGL RVGPLIPEQD YERLEDCDPE GSQDSPIHGE EQQPLLHVPE GLRGSWHHIQ NLDSFFTKIY SYHQRNGFAC ILLEDVFQLG QFIFIVTFTT FLLRCVDYNV LFANQPSNHT RPGPFHSKVT LSDAILPSAQ CAERIRSSPL LVLLLVLAAG FWLVQLLRSV CNLFSYWDIQ VFYREALHIP PEELSSVPWA EVQSRLLALQ RSGGLCVQPR PLTELDIHHR ILRYTNYQVA LANKGLLPAR CPLPWGGSAA FLSRGLALNV DLLLFRGPFS LFRGGWELPH AYKRSDQRGA LAARWGRTVL LLAALNLALS PLVLAWQVLH VFYSHVELLR REPGALGARG WSRLARLQLR HFNELPHELR ARLARAYRPA AAFLRTAAPP APLRTLLARQ LVFFAGALFA ALLVLTVYDE DVLAVEHVLT AMTALGVTAT VARSFIPEEQ CQGRAPQLLL QTALAHMHYL PEEPGPGGRD RAYRQMAQLL QYRAVSLLEE LLSPLLTPLF LLFWFRPRAL EIIDFFHHFT

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VDVAGVGDIC SFALMDVKRH GHPQWLSAGQ TEASLSQRAE DGKTELSLMR FSLAHPLWRP PGHSSKFLGH LWGRVQQDAA AWGATSARGP STPGVLSNCT SPLPEAFLAN LFVHPLLPPR DLSPTAPCPA AATASLLASI SRIAQDPSSV SPGGTGGQKL AQLPELASAE MSLHVIYLHQ LHQQQQQQEP WGEAAASILS RPCSSPSQPP SPDEEKPSWS SDGSSPASSP RQQWGTQKAR NLFPGGFQVT TDTQKEPDRA SCTD

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

Product Details

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:	ATG9B
Alternative Name:	ATG9B (ATG9B Products)
Background:	Autophagy-related protein 9B (APG9-like 2) (Nitric oxide synthase 3-overlapping antisense gene protein) (Protein sONE),FUNCTION: Phospholipid scramblase involved in autophagy by mediating autophagosomal membrane expansion. Cycles between the preautophagosomal structure/phagophore assembly site (PAS) and the cytoplasmic vesicle pool and supplies membrane for the growing autophagosome. Lipid scramblase activity plays a key role in preautophagosomal structure/phagophore assembly by distributing the phospholipids that arrive through ATG2 (ATG2A or ATG2B) from the cytoplasmic to the luminal leaflet of the bilayer, thereby driving autophagosomal membrane expansion (By similarity). In addition to autophagy, also plays a role in necrotic cell death (By similarity). {ECO:0000250|UniProtKB:Q68FE2, ECO:0000250|UniProtKB:Q7Z3C6}.
Molecular Weight:	101.0 kDa
UniProt:	Q674R7

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

Application Details

	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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