Datasheet for ABIN3093990

Myosin XIX Protein (MYO19) (AA 1-970) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Myosin XIX (MYO19)
Protein Characteristics:	AA 1-970
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myosin XIX protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLQQVNGHNP GSDGQAREYL REDLQEFLGG EVLLYKLDDL TRVNPVTLET VLRCLQARYM ADTFYTNAGC TLVALNPFKP VPQLYSPELM REYHAAPQPQ KLKPHVFTVG EQTYRNVKSL IEPVNQSIVV SGESGAGKTW TSRCLMKFYA VVATSPASWE SHKIAERIEQ RILNSNPVME AFGNACTLRN NNSSRFGKFI QLQLNRAQQM TGAAVQTYLL EKTRVACQAS SERNFHIFYQ ICKGASEDER LQWHLPEGAA FSWLPNPERS LEEDCFEVTR EAMLHLGIDT PTQNNIFKVL AGLLHLGNIQ FAASEDEAQP CQPMDDAKYS VRTAASLLGL PEDVLLEMVQ IRTIRAGRQQ QVFRKPCARA ECDTRRDCLA KLIYARLFDW LVSVINSSIC ADTDSWTTFI GLLDVYGFES FPDNSLEQLC INYANEKLQQ HFVAHYLRAQ QEEYAVEGLE WSFINYQDNQ PCLDLIEGSP ISICSLINEE CRLNRPSSAA QLQTRIETAL AGSPCLGHNK LSREPSFIVV HYAGPVRYHT AGLVEKNKDP IPPELTRLLQ QSQDPLLMGL FPTNPKEKTQ EEPPGQSRAP VLTVVSKFKA SLEQLLQVLH STTPHYIRCI KPNSQGQAQT FLQEEVLSQL EACGLVETIH ISAAGFPIRV

SHRNFVERYK LLRRLHPCTS SGPDSPYPAK GLPEWCPHSE EATLEPLIQD ILHTLPVLTQ AAAITGDSAE AMPAPMHCGR TKVFMTDSML ELLECGRARV LEQCARCIQG GWRRHRHREQ ERQWRAVMLI QAAIRSWLTR KHIQRLHAAA TVIKRAWQKW RIRMACLAAK ELDGVEEKHF SQAPCSLSTS PLQTRLLEAI IRLWPLGLVL ANTAMGVGSF QRKLVVWACL QLPRGSPSSY TVQTAQDQAG VTSIRALPQG SIKFHCRKSP LRYADICPEP SPYSITGFNQ ILLERHRLIH VTSSAFTGLG

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.

Product Details

- 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:	Myosin XIX (MYO19)
Alternative Name:	MYO19 (MYO19 Products)
Background:	Unconventional myosin-XIX (Myosin head domain-containing protein 1),FUNCTION: Actin-based motor molecule with ATPase activity that localizes to the mitochondrion outer membrane (PubMed:19932026, PubMed:23568824, PubMed:25447992). Motor protein that moves towards the plus-end of actin filaments (By similarity). Required for mitochondrial inheritance during mitosis (PubMed:25447992). May be involved in mitochondrial transport or positioning (PubMed:23568824). {ECO:0000250|UniProtKB:Q5SV80, ECO:0000269|PubMed:19932026, ECO:0000269|PubMed:25447992, ECO:0000305|PubMed:23568824}.
Molecular Weight:	109.1 kDa
UniProt:	Q96H55

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

Application Details

	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