Datasheet for ABIN3135089

Chromosome 6 Open Reading Frame 170 (C6ORF170) (AA 1-1296) protein (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Chromosome 6 Open Reading Frame 170 (C6ORF170)
Protein Characteristics:	AA 1-1296
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAHFSSEDEV MLQAMLRQLF QSVKEKITGA PSLECAEEIL LRLEETDENF HNYEFVKYLR QHICNMLGSM IEEEMEKCTS DQNQGEDSGY DTVVQHVTKR TQESKEYKEM MHSLKNIMMV VVEAMINKFE EDETRSEDRQ RKMQSGSCCT DNCSDSDSSF NQSYKFCQGK LRLILDQLDP GQPKEVRYEA LQTLCSAPPS DVLSCENWTT LCEKLTTSLS DPDPMFTDRI LKFYAQTFTL SPLHMTKEIY TSLAKYLEVY FLSRENHLPT LSTGVDITSP NVTRLLKKVR LLNEYQKEAP SFWIRHPEKY MEEIVESTLS LLSVKHEQSH LVPQKILDPI YFFALVDTKA VWFKKWMHAY YSRTAVLRLL EKKYKCLITT AVQQCVQYLE LCEAMKADEI LRHPKHCGTK QKSFYYSGQE LQYIYFIHSL CLLGRLLIYT QGRKLFPIKL KNRKDSVSLT NLLVLFTQLI YYSPSCPKMT SIMCSENYSP ASMVTDVLRM LCDQKECAVE CLYNSTVTEA LLLPIHNLTK GTAAAPDCSE TALIHIADIL ARIASVEEGL ILLLYGENMN SSEEESLTGA HIIAKFSKKL LEEDISIFSG SEMLPVVKGA FISVCRQIYG TCEGLQVLLP YGLHESIAKA WKKTSLLSER IPTPVEGSDS VSSVSQVSPN

SVAWEDNLLD DLLNFAATPK GLLLLQRTGA INECVTFMLS QYAKKPQVNR QKKFGYEVLV VQVASTAAGA VALQNSGFIS ALITELWSNL ECGRDDVRLT HPRATPVDPI DRSCQKSFLA LVNLLSYPAV YELTANQELP NKAEYSLREV PTCIIDIMDR LIVLNSEAKI RSLLNYEQSH TFGLRLLSVV CCDLDALLLL EAQYQVSNML LHAQEENTFE ISENHRNFII DGLSVERNHV LVRINLIGGP SERILPPRML EKGDDPYPWP MFSSYPLPHC YQSEGPRSAD LKQDNDIGNL LSCFKMSDKQ TEWIENCRRQ FCKTMKSKPD AVHGSALGEL LEKFVLLLTE NPSECYFPSV EYTATDANVK NESLSSVQQL GMKMTVRYGR FLNLLKDGAE NELALVLKHC EKFLKQQQSP VTSSLLCLQG NYAGHDWFVS SLFMIMLGDK GKTFHFLQHF SRLLTSAFLW VPRLHNSRYL PVDTLGTGIH PIYFCSAHYI EMLLKAEVPL VFSAFHMSGF APSQICLQWI TQCFWNYLDW IEICHYIATC VVLGPDYQVY VCIAVLKHLQ RDILQHTQTQ DLQVFLKEEA LHGFRVSNYF EYMENLEQNY RPVLLRDMRS IRVQNT

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 -

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	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.
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:	Chromosome 6 Open Reading Frame 170 (C6ORF170)
Alternative Name:	Tbc1d32 (C6ORF170 Products)
Background:	Protein broad-minded (TBC1 domain family member 32),FUNCTION: Required for high-level Shh responses in the developing neural tube. Together with CDK20, controls the structure of the primary cilium by coordinating assembly of the ciliary membrane and axoneme, allowing GLI2 to be properly activated in response to Shh signaling. {ECO:0000269|PubMed:20159594}.
Molecular Weight:	148.1 kDa
UniProt:	Q3URV1

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