

Datasheet for ABIN3135089

Chromosome 6 Open Reading Frame 170 (C6ORF170) (AA 1-1296) protein (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Chromosome 6 Open Reading Frame 170 (C6ORF170)
Protein Characteristics:	AA 1-1296
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAHFSEDEV MLQAMLRQLF QSVKEKITGA PSLECAEEIL LRLEETDENF HNYEFVKYLR
 QHICNMLGSM IEEEMKCTS DQNQGEDSGY DTVVQHVTKR TQESKEYKEM MHSLKNIMMV
 VVEAMINKFE EDETRSEDQR RKMQSGSCCT DNCSDSDSSF NQSYKFCQ GK LRLILDQLDP
 GQPKEVRYEA LQTLCSAPPS DVLSNENWTT LCEKLTTSLS DPDPMFTDRI LKFYAQTFTL
 SPLHMTKEIY TSLAKYLEVY FLSRENHLPT LSTGVDITSP NVTRLLKKVR LLNEYQKEAP
 SFWIRHPEKY MEEIVESTLS LLSVKHEQSH LVPQKILDPI YFFALVDTKA VWFKKWMHAY
 YSRTAVLRLLEKKYKCLITT AVQQCVQYLE LCEAMKADEI LRHPKHCGTK QKSFYYSQGE
 LQYIYFIHSL CLLGRLLIYT QGRKLFPIKL KNRKDSVSLT NLLVLFTQLI YYSPSCP KMT
 SIMCSENYSP ASMVTDLVRM LCDQKECAVE CLYNSTVTEA LLLPIHNLTK GTAAAPDCSE
 TALIHIADIL ARIASVEEGL ILLLYGENMN SSEEESLTGA HIIAKFSKLL LEEDISIFSG SEMLPVVKGA
 FISVCRQIYG TCEGLQVLLP YGLHESIAKA WKKTSLLSER IPTPVEGSDS VSSVSQVSPN
 SVAWEDNLLD DLLNFAATPK GLLLLQRTGA INECVTFMLS QYAKKPQVNR QKKFGYEVLV

VQVASTAAGA VALQNSGFIS ALITELWSNL ECGRDDVRLT HPRATPVDPI DRSCQKSFLA
LVNLLSYP AV YELTANQELP NKAEYSLREV PTCIIDIMDR LIVLNSEAKI RLLNNEYQSH
TFGLRLLSVV CCDLDALLLL EAQYQVSNML LHAQEENTFE ISENHRNFII DGLSVERNHV
LVRINLIGGP SERILPPRML EKGDDPYWP MFSSYPLPHC YQSEGPR SAD LKQDNDIGNL
LSCFKMSDKQ TEWIENCRRQ FCKTMKSKPD AVHGSALGEL LEKFVLLLTE NPSECYFPSV
EYTATDANVK NESLSSVQQL GMKMTVRYGR FLNLLKDGAE NELALVLKHC EKFLKQQQSP
VTSSLLCLQG NYAGHDWFVS SLFMIMLGDK GKTFHFLQHF SRLLTSAFLW VPR LHNSRYL
PVDTLGTGIH PIYFCSAHI EMLLKAEVPL VFSAFHMSGF APSQICLQWI TQCFWNYLDW
IEICHYIATC VVLGPDYQVY VCI AVLKHLQ RDILQHTQTQ DLQVFLKEEA LHGFRVSNYF
EYMENLEQNY RPVLLRDMRS IRVQNT

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Tbc1d32 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: Chromosome 6 Open Reading Frame 170 (C6ORF170)

Alternative Name: Tbc1d32 ([C6ORF170 Products](#))

Background: 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: 149.0 kDa Including tag.

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process