

Datasheet for ABIN3090597

CCDC88B Protein (AA 1-1476) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	CCDC88B
Protein Characteristics:	AA 1-1476
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC88B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEGGKGPRRLR DFLSGSLATW ALGLAGLVGE AEDSEGEEEE EEEEEPLWLE KRFLRLSDGA LLLRVLGIIA PSSRGGPRML RGLDGPAAWR VWNLNHLWGR LRDFYQEELQ LLILSPPPDL QTLGFDPLSE EAVEQLEGVL RLLLGASVQC EHRELFIRHI QGLSLEVQSE LAAAIQEVTV PGAGVVLALS GPDPGELAPA ELEMLSRSLM GTLSKLARER DLGAQRLAEL LLEREPLCLR PEAPSRAPAE GPSHHALQL ANAKAQLRRL RQELEEKAEL LLDSQAEVQG LEAEIRRLRQ EAQALSGQAK RAELYREEAE ALRERAGRLP RLQEELRRCR ERLQAAEAYK SQLEEERVLS GVLEASKALL EEQLEAARER CARLHETQRE NLLLRTRLGE AHAEELSLRH QVDQLAEENV ELELELQRSL EPPPGSPGEA PLAGAAPSLQ DEVREAEAGR LRTLRENRE LRGLLQVLQG QPGGQHPLLE APREDPVLVPV LEEAPQTPVA FDHSPQGLVQ KARDGGPQAL DLAPPALDSV LEASAECPQA PDSDPQEAES PLQAAAMPDQ ASDWSPQESG SPVETQESPE KAGRSSLQS PASVAPPQGP GTKIQAPQLL GGETEGREAP QGELVPEAWG LRQEGPEHKP GPSEPSSVQL EEQEGPNQGL DLATGQAEAR EHDQRLEGTV RDPAWQKPQQ KSEGALEVQV WEGPIPGESL
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ASGVAEQEAL REEVAQLRRK AEALGDELEA QARKLEAQT EAARLSKELA QARRAEAEAH
REAEQAWEQ ARLREAVEAA GQELESASQE REALVEALAA AGRERRQWER EGSRLRAQSE
AAEERMVLE SEGRQHLEEA ERERREKEAL QAELEKAVVR GKELGDRLEH LQRELEQAAL
ERQEFLREKE SQHQRYQGLE QRLEAELQAA ATSKEEALME LKTRALQLEE ELFQLRQGPA
GLGPKKRAEP QLVETQNVRL IEVERSNAML VAEKAALQGQ LQHLEGQLGS LQGRAQELL
QSQRAQEHSS RLQAEKSVLE IQGQELHRKL EVLEEEVRAA RQSQEETRQ QQALLRDHKA
LAQLQRRQEA ELEGLLVRHR DLKANMRALE LAHRELQGRH EQLQAQRASV EAQEVALLAE
RERLMQDGHR QRGLEELRR LQSEHDRAQM LLAELSRERG ELQGERGELR GRLARLELER
AQLEMQSQQL RESNQQLDLS ACRLTTQCEL LTQLRSAQEE ENRQLLAEVQ ALSRENRELL
ERSLESRDHL HREQREYLDQ LNALRREKQK LVEKIMDQYR VLEPVPLPRT KKGSWLADKV
KRLMRPRREG GPPGGLRLGA DGAGSTESLG GPPETELPEG READGTGSPS PPMRRAQSS
LCLRDETLG GQRRKLSSRF PVGRSSESFS PGDTPRQFR QRHPGPLGAP VSHSKGPGVG
WENSAETLQE HETDANREGP EVQEPEKRPL TPSLSQ

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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

Product Details

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 in several dilutions and is measured against its specific reference buffer.
 - We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	CCDC88B
Alternative Name:	CCDC88B (CCDC88B Products)
Background:	Coiled-coil domain-containing protein 88B (Brain leucine zipper domain-containing protein) (Gipie) (Hook-related protein 3) (HkRP3),FUNCTION: Acts as a positive regulator of T-cell maturation and inflammatory function. Required for several functions of T-cells, in both the CD4(+) and the CD8(+) compartments and this includes expression of cell surface markers of activation, proliferation, and cytokine production in response to specific or non-specific stimulation (By similarity). Enhances NK cell cytotoxicity by positively regulating polarization of microtubule-organizing center (MTOC) to cytotoxic synapse, lytic granule transport along microtubules, and dynein-mediated clustering to MTOC (PubMed:25762780). Interacts with

Target Details

	HSPA5 and stabilizes the interaction between HSPA5 and ERN1, leading to suppression of ERN1-induced JNK activation and endoplasmic reticulum stress-induced apoptosis (PubMed:21289099). {ECO:0000250 UniProtKB:Q4QRL3, ECO:0000269 PubMed:21289099, ECO:0000269 PubMed:25762780}.
Molecular Weight:	164.8 kDa
UniProt:	A6NC98

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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