

Datasheet for ABIN3090768

CCDC40 Protein (AA 1-1142) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CCDC40
Protein Characteristics:	AA 1-1142
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC40 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MAEPGGAAGR SHPEDGSASE GEKEGNNESH MVSPPEKDDG QKGEEAVGST EHPEEVTQA</p> <p>EAAIEEGEVE TEGEAAVEGE EEAVSYGDAE SSEEYYTET SSPEGQISAA DTTYPYFSP</p> <p>QELPGEEAYD SVSGEAGLQG FQQEATGPPE SRERRVTSPE PSHGVLGPSE QMGQVTS GPA</p> <p>VGRLTGSTEE PQGQVLP MG V QHRFRLSHGS DISSDLEEF VSQEPVIPPG VPD AHPREGD</p> <p>LPVFQDQIQQ PSTEEGAMAE RVESEGSDEE AEDEGSQ L VV LDPDHPLMVR FQAALKNYLN</p> <p>RQIEKLKLDL QELVVATKQS RAQRQELGVN LYEVQQHLVH LQKLEKSHD RHAMASSERR</p> <p>QKEEELQAAR ALYTKTCAA NEERKKLAAL QTEMENLALH LFYMQNIDQD MRDDIRVMTQ</p> <p>VVKKATERI RAEIEKKKQD LYVDQLTTRA QQLEEDIALF EAQYLAQ AED TRILRKAVSE</p> <p>ACTEIDAI SV EKRRIMQQWA SSLVGMKHRD EAHRAVLEAL RGCQHQA KST DGEIEAYKKS</p> <p>IMKEEEKNEK LASILNRTET EATLLQKLTT QCLTKQVALQ SQFNTYRLTL QDTEDALSQD</p> <p>QLEQMILTEE LQAIRQAIQG EELRRKTD AIREKLQEHM TSNKTTKYFN QLILRLQKEK</p>

TNMMTHLSKI NGDIAQTTLTD ITHTSSRLDA HQKTLVELDQ DVKKVNELIT NSQSEISRRT
ILIERKQGLI NFLNKQLERM VSELGGEEVG PLELEIKRLS KLIDEHDGKA VQAQVTWLRL
QQEMVKVTQE QEEQLASLDA SKKELHIMEQ KKLRVESKIE QEKKEQKEIE HHMKDLNDL
KKLNMLMNKN RCSSEELEQN NRVTENEFVR SLKASERETI KMQDKLNQLS EEKATLLNQL
VEAEHQIMLW EKKIQLAKEM RSSVDSEIGQ TEIRAMKGEI HRMKVRLGQL LKQQEKMIRA
MELAVARRET VTTQAEQQRK MDRKALTRTD FHHKQLELRR KIRDVRKATD ECTKTVLELE
ETQRNVSSSL LEKQEKLSVI QADFDTLEAD LTRLGALKRQ NLSEIVALQT RLKHLQAVKE
GRYVFLFRSK QSLVLERQRL DKRLALIATI LDRVRDEYPQ FQEALHKVSQ MIANKLESPG PS

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:

Product Details

- 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: CCDC40

Alternative Name: CCDC40 ([CCDC40 Products](#))

Background: Coiled-coil domain-containing protein 40, FUNCTION: Required for assembly of dynein regulatory complex (DRC) and inner dynein arm (IDA) complexes, which are responsible for ciliary beat regulation, thereby playing a central role in motility in cilia and flagella (PubMed:21131974). Probably acts together with CCDC39 to form a molecular ruler that determines the 96 nanometer (nm) repeat length and arrangements of components in cilia and flagella (By similarity). Not required for outer dynein arm complexes assembly. Required for axonemal recruitment of CCDC39 (PubMed:21131974). {ECO:0000250|UniProtKB:A8IQ22, ECO:0000269|PubMed:21131974}.

Molecular Weight: 130.1 kDa

UniProt: [Q4G0X9](#)

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.

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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