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Datasheet for ABIN3123530

**CCDC66 Protein (AA 1-935) (Strep Tag)**

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | CCDC66  |
| Protein Characteristics:      | AA 1-935  |
| Origin:                       | Mouse   |
| Source:                       | Tobacco (Nicotiana tabacum)                     |
| Protein Type:                 | Recombinant                                     |
| Purification tag / Conjugate: | This CCDC66 protein is labelled with Strep Tag. |
| Application:                  | ELISA, SDS-PAGE (SDS), Western Blotting (WB)    |

## Product Details

|           |  |
|-----------|--|
| Sequence: | MNLGDGLKLE TELLDGKTKL ILSPYEHKSK VSVKMGNKFK IAKCPLRTKQ TGHTLKSTQN<br>TYIGNENLSQ KKISTLDTSQ AKPENSRLTF SPSTDKQYSE KDSVRVQKEI SPTTSNIRKI<br>INTTGTCPVA KQKPCCKNPT AETMNSGLVC LTQDQLRQIL MLSVNQGNQS VCLTETGEEE<br>ASQDSLHLIN IPSQPKDVND TGFLQNTEAA SPVTSEHEHV HRRAQEAFQQ CEQKAATENE<br>WKPADIFSTL GERERDKSLL EARRAQWKKE LDEQVALKKK EKEASQKWHN PWKPSDIECE<br>KSQVHDQSKE ARLLESPCSA IKQEQRKWI EELNKQVEDD QQRKAERMI YSKGEEHWRW<br>AVHFDLSKSH PGSQSRLSSQ LTHQHLESLC VSPDTQELAD VNGVFTPPPG VQAEPSEKEQ<br>RARPVLEMAV SHGPKTNFLR SMTALLDPAQ IEERERRRQK QLEHQKAIMA QVEENRRKKR<br>LEEEQRKKEE QELELRLARE REEMQRQYEE DILKQRQREE IMTLKTNELF HTMQRAQELA<br>QRLKQEQRIR ELAQKGHDTS RLIQNLGAQV DYKAFTTISS SHSDPEETAD TSTASPKKDT<br>GVQTDDVNLG IFNDALPPCG SVTEKGIRNI SSPEISAEFS GQTDIRKENQ ELSMNKGTNL<br>DKENSWHNGQ CNQYRRTEKQ TKLMKKCPKK PAWNINKPLK KYVPASAKYP AHLQKEKEEK |
|-----------|--|

KVQRQMELLH LVERNNPENL SQNRGISPLA TSHRETES RLHLIKKVEE PLKTPSVSKE  
RFQTSPAVKN RTQQTQSNVL HLPLKNNDYE KETLTLDGDH TKLSDEMSEP SHFIPYVRTN  
EIYYLDPDAP LSRPSTQDNQ YQKSHDCARE QELFSDHIR DPLLNPKLVK NRDRQQAILK  
GLSELRQGLL QKQKELETNL IPLTANQEDN FSSSF

**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.**

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### 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 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.

## Product Details

- 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®):<br><br>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.<br>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)  |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | CCDC66  |
| Alternative Name: | Ccdc66 ( <a href="#">CCDC66 Products</a> )  |
| Background:       | Coiled-coil domain-containing protein 66,FUNCTION: Microtubule-binding protein required for ciliogenesis. May function in ciliogenesis by mediating the transport of proteins like BBS4 to the cilium, but also through the organization of the centriolar satellites (By similarity). Plays a role in retina morphogenesis and/or homeostasis (PubMed:21680557).<br>{ECO:0000250 UniProtKB:A2RUB6, ECO:0000269 PubMed:21680557}. |
| Molecular Weight: | 107.4 kDa   |
| UniProt:          | <a href="#">Q6NS45</a>  |

## 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.<br><br>During lysate production, the cell wall and other cellular components that are not required for |

Application 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!

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)   |