

Datasheet for ABIN3091833

## CNOT2 Protein (AA 1-540) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	CNOT2
Protein Characteristics:	AA 1-540
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNOT2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MVRTDGHTLS EKRNYQVTNS MFGASRKKFV EGVDSDYHDE NMYYSQSSMF PHRSEKDMLA  SPSTSGQLSQ FGASLYGQQS ALGLPMRGMS NNTPQLNRSL SQGTQLPSHV TPTTGVPTMS  LHTPPSPSRG ILPMNPRNMM NHSQVGQGIG IPSRTNSMSS SGLGSPNRSS PSIICMPKQQ  PSRQPFTVNS MSGFGMNRNQ AFGMNNLSLSS NIFNGTDGSE NVTGLDLSDF PALADNRNRE  GSGNPTPLIN PLAGRAPYVG MVTKPANEQS QDFSIHNEDF PALPGSSYKD PTSSNDDSKS  NLNTSGKTTS STDGPKFPGD KSSTTQNNNQ QKKGIVQLPD GRVTNIPQGM VTDQFGMIGL  LTFIRAAETD PGMVHLALGS DLTTLGLNLN SPENLYPKFA SPWASSPCRP QDIDFHVPS  YL TNIHIRDK LAAIKLGRYG EDLLFYLYYM NGGDVLQLLA AVELFNRDWR YHKEERVWIT  RAPGMEPTMK TNYERGTYY FFDCLNWRKV AKEFHLEYDK LEERPHLPST FNYNPAQQA</p> <p><b>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</b></p>

### 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 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:

- 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.

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#### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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#### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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#### Grade:

custom-made

## Target Details

Target:	CNOT2
Alternative Name:	CNOT2 ( <a href="#">CNOT2 Products</a> )
Background:	<p>CCR4-NOT transcription complex subunit 2 (CCR4-associated factor 2),FUNCTION: Component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation. Additional complex functions may be a consequence of its influence on mRNA expression. Required for the CCR4-NOT complex structural integrity. Can repress transcription and may link the CCR4-NOT complex to transcriptional regulation, the repressive function may specifically involve the N-CoR repressor complex containing HDAC3, NCOR1 and NCOR2. Involved in the maintenance of embryonic stem (ES) cell identity. {ECO:0000269 PubMed:14707134, ECO:0000269 PubMed:16712523, ECO:0000269 PubMed:21299754, ECO:0000269 PubMed:22367759}.</p>
Molecular Weight:	59.7 kDa
UniProt:	<a href="#">Q9NZN8</a>
Pathways:	<a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> , <a href="#">Stem Cell Maintenance</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:	<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

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months