

Datasheet for ABIN3088841

## EIF2C3 Protein (AA 1-860) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	EIF2C3
Protein Characteristics:	AA 1-860
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF2C3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEIGSAGPAG AQPLLMVPRR PGYGTMGKPI KLLANCFQVE IPKIDVYLYE VDIKPDKCPR</p> <p>RVNREVVD SM VQHFKVTIFG DRRPVYDGKR SLYTANPLPV ATTGVLDLVT LPGEGGKDRP</p> <p>FKVSIKFVSR VSWHLLHEVL TGRTLPEPLE LDKPISTNPV HAVDVVLRHL PSMKYTPVGR</p> <p>SFFSAPEGYD HPLGGGREGVW FGFHQSVRPA MWKMMLNIDV SATAFYKAQP VIQFMCEVLD</p> <p>IHNIDEQPRP LTDSHRVKFT KEIKGLKVEV THCGTMRRKY RVCNVTRRPA SHQTFPLQLE</p> <p>NGQTVERTVA QYFREKYTLQ LKYPHLPCLQ VGQEQKHTYL PLEV CNIVAG QRCIKKLT DN</p> <p>QTSTMIKATA RSAPDRQEEI SRLVRSANYE TDPFVQEFQF KVRDEMAHVT GRVLPAPMLQ</p> <p>YGGRNRTVAT PSHGVWDMRG KQFHTGVEIK MWAIACFATQ RQCREEILKG FTDQLRKISK</p> <p>DAGMPIQGQP CFCKYAQGAD SVEPMFRHLK NTYSGLQLII VILPGKTPVY AEVKRVGDTL</p> <p>LGMATQCVQV KNVIKTSPQT LSNLCLKINV KLGGINNILV PHQRPSVFQQ PVIFLGADVT</p> <p>HPPAGDGKKP SIAAVVGSMD AHPSRYCATV RVQRPRQEII QDLAS MVREL LIQFYKSTRF</p>

KPTRIIFYRD GVSEGRFRQV LYYELLAIRE ACISLEKDYQ PGITYIVVQK RHHTRLFCD  
RTERVGRSGN IPAGTTVDTD ITHPYEFDY LCASHAGIQGT SRPSHYHVLW DDNCFTADEL  
QLLTYQLCHT YVRCTRSVSI PAPAYYAHV AFRARYHLVD KEHDSAEGSH VSGQSNRDP  
QALAKAVQIH QDTLRTMYFA

**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 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.

## Product Details

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: EIF2C3

Alternative Name: AGO3 ([EIF2C3 Products](#))

Background: Protein argonaute-3 (Argonaute3) (hAgo3) (EC 3.1.26.n2) (Argonaute RISC catalytic component 3) (Eukaryotic translation initiation factor 2C 3) (eIF-2C 3) (eIF2C 3),FUNCTION: Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. Proposed to be involved in stabilization of small RNA derivatives (siRNA) derived from processed RNA polymerase III-transcribed Alu repeats containing a DR2 retinoic acid response element (RARE) in stem cells and in the subsequent siRNA-dependent degradation of a subset of RNA polymerase II-transcribed coding mRNAs by recruiting a mRNA decapping complex involving EDC4. Possesses RNA slicer activity but only on select RNAs bearing 5'- and 3'-flanking sequences to the region of guide-target complementarity (PubMed:29040713). {ECO:0000255|HAMAP-Rule:MF\_03032, ECO:0000269|PubMed:18771919, ECO:0000269|PubMed:23064648, ECO:0000269|PubMed:29040713}.

Molecular Weight: 97.4 kDa

UniProt: [Q9H9G7](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Regulatory RNA Pathways](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

## 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

Application Details

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!

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 <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