

Datasheet for ABIN3089515

ASCC2 Protein (AA 1-757) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ASCC2
Protein Characteristics:	AA 1-757
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASCC2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MPALPLDQLQ ITHKDPKTGK LRTSPALHPE QKADRYFVLY KPPPKDNIPA LVEEYLERAT</p> <p>FVANDLDWLL ALPHDKFWCQ VIFDETLQKC LDSYLRYVPR KFDEGVASAP EVVDMQKRLH</p> <p>RSVFLTFLRM STHKESKDH F ISPSAFGEIL YNNFLFDIPK ILDL CVLFGK GNSPLLQKMI</p> <p>GNIFTQQPSY YSDLDETLPT ILQVFSNQLQ HCGLQGDGAN TTPQKLEERG RLTPSDMPLL</p> <p>ELKDIVLYLC DTCTTLWAF L DIFPLACQTF QKHDFCYRLA SFYEAAIPEM ESAIKKRRLE</p> <p>DSKLLGDLWQ RLSHSRKKLM EIFHIILNQI CLLPILESSC DNIQGFIEEF LQIFSSLLQE KRFLRDYDAL</p> <p>FPVAEDISLL QQASSVLDET RTAYILQAVE SAWEGVDRRK ATDAKDPSVI EEPNGEPNGV</p> <p>TVTAEAVSQA SSHPENSEEE ECMGAAA V G PAMCGVELDS LISQVKDLLP DLGEGFILAC</p> <p>LEYHYDPEQ VINNILEERL APTLSQLDRN LDREMKPDPT PLLTSRHN VF QNDEFDVFSR</p> <p>DSVDLSRVHK GKSTRKEENT RLLNDKRAV AAQRQRYEQY SVVVEEVPLQ PGESLPYHSV</p> <p>YYEDEYDDTY DGNQVGANDA DSDDELISRR PFTIPQVLRT KVPREGQEED DDDEEDDADE</p>

EAPKPDHFVQ DPAVLREKAE ARRMAFLAKK GYRHSSTAV AGSPRGHGQS RETTQERRKK
EANKATRANH NRRTMADRKR SKGMIPS

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:

- 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®).

Product Details

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

Grade: custom-made

Target Details

Target: ASCC2

Alternative Name: ASCC2 ([ASCC2 Products](#))

Background: Activating signal cointegrator 1 complex subunit 2 (ASC-1 complex subunit p100) (Trip4 complex subunit p100),FUNCTION: Ubiquitin-binding protein involved in DNA repair and rescue of stalled ribosomes (PubMed:29144457, PubMed:32579943, PubMed:32099016, PubMed:36302773). Plays a role in DNA damage repair as component of the ASCC complex (PubMed:29144457). Recruits ASCC3 and ALKBH3 to sites of DNA damage by binding to polyubiquitinated proteins that have 'Lys-63'-linked polyubiquitin chains (PubMed:29144457). Part of the ASC-1 complex that enhances NF-kappa-B, SRF and AP1 transactivation (PubMed:12077347). Involved in activation of the ribosome quality control (RQC) pathway, a pathway that degrades nascent peptide chains during problematic translation (PubMed:32579943, PubMed:32099016, PubMed:36302773). Specifically recognizes and binds RPS20/uS10 ubiquitinated by ZNF598, promoting recruitment of the RQT (ribosome quality control trigger) complex on stalled ribosomes, followed by disassembly of stalled ribosomes (PubMed:36302773). {ECO:0000269|PubMed:12077347, ECO:0000269|PubMed:29144457, ECO:0000269|PubMed:32099016, ECO:0000269|PubMed:32579943, ECO:0000269|PubMed:36302773}.

Molecular Weight: 86.4 kDa

UniProt: [Q9H1I8](#)

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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Application Details

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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