Datasheet for ABIN3135953

# CP110 Protein (AA 1-1004) (Strep Tag)

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 250 µg |
| Target: | CP110 (CCP110) |
| Protein Characteristics: | AA 1-1004 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CP110 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

| | |
|---|---|
| Brand: | AliCE® |
| Sequence: | MEEYEEFCEK ALGRAQEASL STGSFLPAQA ESVSLIRFHG VAVLSPLLTI EKRKKIQEEK QKALDVQSRK QANRKKALLT RVQEILENVQ VRKAPNASDF DQWATETIYS NPEVTDLNVP VRVPNSLPSP TEHCTSVKLE KITGLLPVNN EDQQTPKRVG LPGDSEVSGS LRQCESPESR QAEDGAALRL SSASPQETII SDVLGKEEQD PSCLAEVTPD PYIMSLQNLM KRSKEYVERE LSSRSLRNSL KRSVNETHSD RENDAAKASD CVKEKAPPMP IGRHCGSAIP DKPSLNKSNV LLQGASQASS MGTAGLASFS KIDLPAGAAP PAAPDAGSDF TVIPTFVTEN KVKSLKGPYA KLPSPEPSMS PTMHRRHSRS ASACQILINN PVNACELSPK GKEEAVDRTA PAAAETTNES ETVPKSPTDL TGVCSSNVSA TKITSESTRE MVVGKPSQRQ QALGAHLGNN VTVERSAMEG PFIADDRGAQ KVDGTCMAVP KLHELQPSSQ CVSSQTLEDV CELKSASLLA KNSCNLQMEL NKSYDVKHPS PLLTQTQTSR QQMDTPPVFR GNEQFVDNSF EKVKRRLDLD VDSLQKENCP YIITAGVAEQ ERDRLLERRY PKGFVHINKN KMLETSPKEG QELLKSKMLA FEEMRKRLEE |

QHAQQLSLLI AEQEREQEQL QKEIEEQEKM LKEKAVTTDV SDLNSALEWR QRTDSALLET MLSQVDSLQT SNNSGFITSA LQYSFGSAGE APFYLWGSLT SGVTRVSGTR PCGRAQAKWS QVFNPEIHAK FNKITAVAKG FLTRKLMQTD KLKQLRQTVK DTMEFIRSFQ SEAPLKRGVV SAQDASLQER VLAQLRAALY GIHDIFFVMD AAERMSILHH DREARKEKLL RQMDKMKSPR VALSVATQKS LDRKKFMKVA EMGMPNKKFL LKQNPSETRV LQPNQGQNAP VHRLLSRQGT PKTSVKGVVQ NRQKPSQSRV PNRAPVSGAY AGKTQRKRPN VATI

**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.

## Product Details

- 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: | CP110 (CCP110) |
| Alternative Name: | Ccp110 (CCP110 Products) |
| Background: | Centriolar coiled-coil protein of 110 kDa (Centrosomal protein of 110 kDa) (Cep110) (Cp110),FUNCTION: Necessary for centrosome duplication at different stages of procentriole formation. Acts as a key negative regulator of ciliogenesis in collaboration with CEP97 by capping the mother centriole thereby preventing cilia formation (PubMed:23141541). Also involved in promoting ciliogenesis. May play a role in the assembly of the mother centriole subdistal appendages (SDA) thereby effecting the fusion of recycling endosomes to basal bodies during cilia formation (PubMed:26965371). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (By similarity). {ECO:0000250\|UniProtKB:O43303, ECO:0000269\|PubMed:23141541, ECO:0000269\|PubMed:26965371}. |
| Molecular Weight: | 111.1 kDa |
| UniProt: | Q7TSH4 |
| Pathways: | M Phase |

## 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.<br>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.<br>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 |