

Datasheet for ABIN3091910

CP110 Protein (AA 1-1012) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CP110 (CCP110)
Protein Characteristics:	AA 1-1012
Origin:	Human
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:	<p>MEEYEKFCCK SLARIQEASL STESFLPAQS ESISLIRFHG VAILSPLLNI EKRKEMQQEK</p> <p>QKALDVEARK QVNRKKALLT RVQEILDNVQ VRKAPNASDF DQWEMETVYS NSEVRNLNVP</p> <p>ATFPNSFPSH TEHSTAACKL KIAGILPLDN EDQCKTDGID LARDSEGFNS PKQCDSSNIS</p> <p>HVENEAFPKT SSATPQETLI SDGPFSVNEQ QDLPLLAIVI PDPYVMSLQN LMKKSKEYIE</p> <p>REQSRRSLRG SINRIVNESH LDKEHDAVEV ADCVKEKGQL TGKHCVSVIP DKPSLNKSNV</p> <p>LLQGASTQAS SMSMPVLASF SKVDIPIRTG HPTVLESNSD FKVIPTFVTE NNVIKSLTGS</p> <p>YAKLPSPEPS MSPKMHRRRS RTSSACHILI NNPINACELS PKGKEQAMD LIIQD TDENTN</p> <p>VPEIMPKLPT DLAGVCSSKV YVGKNTSEVK EDVVLGKSNQ VCQSSGNHLE NKVTHGLVTV</p> <p>EGQLTSDERG AHIMNSTCAA MPKLHEPYAS SQCIASPNFG TVSGLKPASM LEKNCSLQTE</p> <p>LNKSYDVKNP SPLLMQNQNT RQQMDTPMVS CGNEQFLDNS FEKVKRRDL DIDGLQKENC</p> <p>PYVITSGITE QERQHLPEKR YPKGSGFVNK NKMLGTSSKE SEELLKSKML AFEEMRKRLE</p>

EQHAQQLSLL IAEQEREQER LQKEIEEQEK MLKEKKAMTA EASELDINNA VELEWRKISD
SSLLETMLSQ ADSLHTSNSN SSGFTNSAMQ YSFVSANEAP FYLWGSSTSG LTKLSVTRPF
GRAKTRWSQV FSLEIQAKFN KITAVAKGFL TRRLMQTDKL KQLRQTVKDT MEFIRSFQSE
APLKRGIUSA QDASLQERVL AQLRAALYGI HDIFFVMDAA ERMSILHHDR EVRKEKMLRQ
MDKMKSPRVA LSAATQKSLD RKKYMKAAEM GMPNKKFLVK QNPSETRVLQ PNQGQNAPVH
RLLSRQGTPK TSVKGVVQNR QKPSQSRVPN RVPVSGVYAG KIQRKRPNVA TI

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) (CP110) (Cep110), 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:17719545, PubMed:17681131, PubMed:23486064, PubMed:30375385, PubMed:35301795). 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 (By similarity). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (PubMed:16760425). {ECO:0000250|UniProtKB:Q7TSH4, ECO:0000269|PubMed:12361598, ECO:0000269|PubMed:16760425, ECO:0000269|PubMed:17681131, ECO:0000269|PubMed:17719545, ECO:0000269|PubMed:23486064, ECO:0000269|PubMed:30375385, ECO:0000269|PubMed:35301795}.

Molecular Weight: 113.4 kDa

UniProt: [O43303](#)

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.

Application Details

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>
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Restrictions:	For Research Use only
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Handling

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