

Datasheet for ABIN3095815
CCDC79 Protein (AA 1-727) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	CCDC79
Protein Characteristics:	AA 1-727
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC79 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MESEDTKKTQ EMKTDLNL LLL ECLKYQMDNA FSQKEALVTI HSICQQNSNA SVYFREIGGL MFVKNLAKSS EHSMVKEAAL YTLGAI AEKN VYCQQLCTS ELFEDLTWFL SNDSNINLKR MSVYVILVLV SNNRTGQTLV RETGCITVLS RLFRTVSKH ELDLSDKNVF QSYQLWSSVC STLCVCVNNP QNDENQM FCC SLFP HANEWL KNCTTPEIIR PICSFGLTL ANNTYVQKYF VSVGGLDVLS QVLMQLES DS HETLSSAKLA VVTKTVDAC IADNPTFGIV LSKYHIVSKL LALLLHESLD SGEKFSIMLT LGHCTEDCEE NQYDLFKNNG LPLMIQALTE SQNEELN KAA TFLVHNCKKI TEKLSLSLGE YPFDENETQQ LKDISVKENN LEEHWRKAKE ILHRIEQLER EGNEEEIQRE NYQDNIS SMN ISIQNTWKHL HADRIGR GSK AEDEDKSHSR QLQSYKSHGV MSKACTNDDQ MKTPLKSANP VHACYRESEQ NKTLYKAKSS CNQNLHEETT FEKNFVSQSS DHVFKHPVHI AKNIKQQLPV TDPFTLCSDI INKEVVSFLA TPSCSEMLTY RCSGCI AVEK SLNSRNFSKL LHSCP YQCDR HKVIVEAEDR YKSELRKSLI CNKILLTPR RRQRLSNEST TPGGIKRRRI RKNFTEEEVN YLFNGVKKMG NHWNSILWSF PFQQRKA VD LAHKYHKLTK

HPTCAAS

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

Product Details

(ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade: Crystallography grade

Target Details

Target: CCDC79

Alternative Name: TERB1 ([CCDC79 Products](#))

Background: Telomere repeats-binding bouquet formation protein 1 (Coiled-coil domain-containing protein 79),FUNCTION: Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis. Component of the MAJIN-TERB1-TERB2 complex, which promotes telomere cap exchange by mediating attachment of telomeric DNA to the inner nuclear membrane and replacement of the protective cap of telomeric chromosomes: in early meiosis, the MAJIN-TERB1-TERB2 complex associates with telomeric DNA and the shelterin/telosome complex. During prophase, the complex matures and promotes release of the shelterin/telosome complex from telomeric DNA. In the MAJIN-TERB1-TERB2 complex, TERB1 probably mediates association with the shelterin/telosome complex via interaction with TERF1, promoting priming telomeric DNA attachment'. Promotes telomere association with the nuclear envelope and deposition of the SUN-KASH/LINC complex. Also recruits cohesin to telomeres to develop structural rigidity. {ECO:0000250|UniProtKB:Q8C0V1}.

Molecular Weight: 83.1 kDa

UniProt: [Q8NA31](#)

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>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process