Datasheet for ABIN3095815

CCDC79 Protein (AA 1-727) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	CCDC79
Protein Characteristics:	AA 1-727
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC79 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MESEDTKKTQ EMKTDLNLLL ECLKYQMDNA FSQKEALVTI HSICQQNSNA SVYFREIGGL MFVKNLAKSS EHSMVKEAAL YTLGAIAEKN VYCQQTLCTS ELFEDLTWFL SNDSNINLKR MSVYVILVLV SNNRTGQTLV RETGCITVLS RLFRTVISKH ELDLSDKNVF QSYQLWSSVC STLCVCVNNP QNDENQMFCC SLFPHANEWL KNCTTPEIIR PICSFIGLTL ANNTYVQKYF VSVGGLDVLS QVLMQLESDS HETLSSAKLA VVVTKTVDAC IADNPTFGIV LSKYHIVSKL LALLLHESLD SGEKFSIMLT LGHCTEDCEE NQYDLFKNNG LPLMIQALTE SQNEELNKAA TFVLHNCKKI TEKLSLSLGE YPFDENETQQ LKDISVKENN LEEHWRKAKE ILHRIEQLER EGNEEEIQRE NYQDNISSMN ISIQNTWKHL HADRIGRGSK AEDEDKSHSR QLQSYKSHGV MSKACTNDDQ MKTPLKSANP VHACYRESEQ NKTLYKAKSS CNQNLHEETT FEKNFVSQSS DHVFKHPVHI AKNIKQQLPV TDPFTLCSDI INKEVVSFLA TPSCSEMLTY RCSGCIAVEK SLNSRNFSKL LHSCPYQCDR HKVIVEAEDR YKSELRKSLI CNKKILLTPR RRQRLSNEST

TPGGIKKRRI RKNFTEEEVN YLFNGVKKMG NHWNSILWSF PFQQGRKAVD 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 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:	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.
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 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

Application Details

	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 **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