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Datasheet for ABIN3136347

CCDC79 Protein (AA 1-768) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	CCDC79
Protein Characteristics:	AA 1-768
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC79 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MESEKPKKTQ EMKTDLKLLL ECLKYHMGNP LSQKEVLITI HSVCKQNSDA GIYFREIGGL
 MFIINLAKSS EQSLVKEAAL YTLGSIAEEN VYCQQLCTS ELFQDLTGLL TNDDSNNTLK
 RMSVYVLLVL VSNNRNGQTL VREVCIEVL SQMFRTVLSN YELNLSDNSV FQSYLLWSSV
 CSTLCVCVNN PQNDENQMLC CSLFPCVNEW LMNCMRPEVI RPICSFIGHT LANNTHAQNC
 FVSSGGLDVL CQVLVQLESD SHNTLSSAKL AVIVTKTMDA CITDNSAFT VVLSKYHIVS
 TLLALLLHES LDSREKFSII LAIGHCTEDC EKNQYELLKN NGLPLMIQAL TEFKNEKLSK
 AATYVLHNCK KITGKLSLSL GQNSFGENEI ELKDISEKET LREHWKAAKE ILCRIKQFEK
 GGKEEKQQR SGHYKDNTPS MKVNIQTNLK RLCADSTGGT RAEDKDINQS RELRSYKPSE
 IMSKACANEN QLTTRKKNNTN PVHPFCKEKG QSKIVHETTP SCAQNLDKEK TFDQKDSVSQ
 SSDQVLKHLPTVTKNRKQVP ETDPFRTLCLD IIDREVGIIQA TDSCSRMLKY TCSGCIVARK
 LLNSRNFSKF LHSCAYQCVH HKVIMEAEDK YKNELRKTFI CAKKILLTPC RRRQLCKEST
 ASEELKIVHQ KPDSKKLPGL EAQALNTSIP EAMERRSPVP GQSGLHKKRR IRKDFTKEEV

NYLFHGVKTM GNHWNSILWS PPFQKGRRAV DLAHKYHRLI KGPSCAAL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ccdc79 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Product Details

Grade: Crystallography grade

Target Details

Target: CCDC79

Alternative Name: Ccdc79 ([CCDC79 Products](#))

Background: Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis (PubMed:24413433, PubMed:26548954). 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 (PubMed:26548954). In the MAJIN-TERB1-TERB2 complex, TERB1 probably mediates association with the shelterin/telosome complex via interaction with TERF1, promoting priming telomeric DNA attachment' (PubMed:26548954). Promotes telomere association with the nuclear envelope and deposition of the SUN-KASH/LINC complex (PubMed:24413433). Also recruits cohesin to telomeres to develop structural rigidity (PubMed:24413433). {ECO:0000269|PubMed:24413433, ECO:0000269|PubMed:26548954}.

Molecular Weight: 87.8 kDa Including tag.

UniProt: [Q8C0V1](#)

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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