Datasheet for ABIN3095505

CCDC99 Protein (AA 1-605) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	CCDC99
Protein Characteristics:	AA 1-605
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC99 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEADIITNLR CRLKEAEEER LKAAQYGLQL VESQNELQNQ LDKCRNEMMT MTESYEQEKY TLQREVELKS RMLESLSCEC EAIKQQQKMH LEKLEEQLSR SHGQEVNELK TKIEKLKVEL DEARLSEKQL KHQVDHQKEL LSCKSEELRV MSERVQESMS SEMLALQIEL TEMESMKTTL KEEVNELQYR QEQLELLITN LMRQVDRLKE EKEEREKEAV SYYNALEKAR VANQDLQVQL DQALQQALDP NSKGNSLFAE VEDRRAAMER QLISMKVKYQ SLKKQNVFNR EQMQRMKLQI ATLLQMKGSQ TEFEQQERLL AMLEQKNGEI KHLLGEIRNL EKFKNLYDSM ESKPSVDSGT LEDNTYYTDL LQMKLDNLNK EIESTKGELS IQRMKALFES QRALDIERKL FANERCLQLS ESENMKLRAK LDELKLKYEP EETVEVPVLK KRREVLPVDI TTAKDACVNN SALGGEVYRL PPQKEETQSC PNSLEDNNLQ LEKSVSIYTP VVSLSPHKNL PVDMQLKKEK KCVKLIGVPA DAEALSERSG NTPNSPRLAA ESKLQTEVKE GKETSSKLEK ETCKKLHPIL YVSSKSTPET QCPQQ **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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CCDC99
Alternative Name:	SPDL1 (CCDC99 Products)
Background:	Protein Spindly (hSpindly) (Arsenite-related gene 1 protein) (Coiled-coil domain-containing protein 99) (Rhabdomyosarcoma antigen MU-RMS-40.4A) (Spindle apparatus coiled-coil domain-containing protein 1),FUNCTION: Required for the localization of dynein and dynactin to the mitotic kintochore. Dynein is believed to control the initial lateral interaction between the kinetochore and spindle microtubules and to facilitate the subsequent formation of end-on kinetochore-microtubule attachments mediated by the NDC80 complex. Also required for correct spindle orientation. Does not appear to be required for the removal of spindle assembly checkpoint (SAC) proteins from the kinetochore upon bipolar spindle attachment (PubMed:17576797, PubMed:19468067). Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (PubMed:25035494). Plays a role in cell migration (PubMed:30258100). {ECO:0000255|HAMAP-Rule:MF_03041, ECO:0000269|PubMed:17576797, ECO:0000269|PubMed:19468067, ECO:0000269|PubMed:25035494, ECO:0000269|PubMed:30258100}.
Molecular Weight:	70.2 kDa
UniProt:	Q96EA4

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 components needed for protein production (amino acids, cofactors, etc.) are added to produce

Application Details

	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