

Datasheet for ABIN3136366

Strumpellin Protein (AA 1-1159) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Strumpellin (WASHC5)
Protein Characteristics:	AA 1-1159
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Strumpellin protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLDFLAENNL CGQAILRIVS CGNAIIAEVL RLSEFIPAVF LLKDRADQQR YGDIIFDFS</p> <p>Y FKGPEFWESK LEAKPELQDL DEEFRENNIE IVTRFYLA FQ SVHKYIVDLN RYLDDLNEG</p> <p>V YIQQTLETVL LSEDGKQLLC EALYLYGVML LVIDQKIEGE VRERMLVSYY RYSAARSSAD</p> <p>S SNMDDICKLL RSTGYSSQPG AKRPPNYPES YFQRPINET FISMVIGRLR SDDIYNQVSA</p> <p>Y YPLPEHRSTA LANQAAMLYV ILYFEPSILH THQAKMREIV DKYFPDNWVI SIYMGITVNL</p> <p>A ADAWEPYKAA KTALNNTLDL ANVKEQASRY ASVSDRVRAQ VQQLKEGYL REEVLLDNIP</p> <p>R RLLNCLRDCN VAIRWMLLHT ADSACDPNNK RLRQIKDQIL ADSRYNPKIL FQLLLDTAQF</p> <p>E EFILKEMFKQ MLSEKQSKWE HYKKEGSERM TELADVFSGV KPLTRVEKNE NLQAWFREIS</p> <p>K KQILSLNYDD STAAGRKT VQ LIQALEEVQE FHQLESNLQV CQFLADTRKF LHQMIRTINI</p> <p>K KEEVLITVQI IGDLSFAWQL IDSFTSIMQE SIRVNPSMVT KLRATFLKLA SALDLPLLR</p> <p>I NQANSPDLLS VSQYYSGELV SYVRKVLQII PESMFTSLLK IIKLQTHDIM EVPTRLDKDK</p>

LRDYAQLGPR YEVAKLTHAI SIFTEGILMM KTTLVGIIKV DPKQLLEDGI RKELVKRVAF
ALHRGLIFNP RAKPSELMPK LKELGATMDG FHRSFEYIQD YVSIYGLKIW QEEVSRIINY
NVEQECNNFL RTKIQDWQSM YQSTHIPIK FAPVDESITF IGRLCREILR ITDPKMTCYI
DQLNTWYDVK THQEVTSRL FSEIQTTLGT FGLNGLDRLL CFMIVKELQN FLSMFQKIIL
KERTVQETLK MLMSAVNPLK SIVANSSKVY LSAITKTQKI WSAYLEAIMK VGQMQLRQQ
IANELNSSCR FDSRHAAAL DNLNKALLAD IEAHYRDPSL PYPKEDNTLL YEITAYLEAA
GIHNPLNKIY ITTKRLPYFP IVNFLFLIAQ LPKLQYNKNL GMVCRKPADP VDWPPPLVLGL
LTLLKQFHSR YTEQFLALIG QFIRSTMEQC TSQKMPEMPA DAVGALLFLE DYVRYTKLPR
RVAEAHVPNF IFDEFRTVL

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!

Product Details

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: Strumpellin (WASHC5)

Alternative Name: Washc5 ([WASHC5 Products](#))

Background: WASH complex subunit 5 (WASH complex subunit strumpellin),FUNCTION: Acts as a component of the WASH core complex that functions as a nucleation-promoting factor (NPF) at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role in the fission of tubules that serve as transport intermediates during endosome sorting. May be involved in axonal outgrowth. Involved in cellular localization of ADRB2. Involved in cellular trafficking of BLOC-1 complex cargos such as ATP7A and VAMP7 (By similarity). Involved in cytokinesis and following polar body extrusion during oocyte meiotic maturation (PubMed:24998208). {ECO:0000250|UniProtKB:Q12768, ECO:0000269|PubMed:24998208}.

Molecular Weight: 134.1 kDa

UniProt: [Q8C2E7](#)

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.

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Application Details

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!

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