Datasheet for ABIN3135752

CEP135 Protein (AA 1-1140) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	CEP135
Protein Characteristics:	AA 1-1140
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP135 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MTTAAERKYI NIRKRLDQLG YRQTLSVDSL PLVEKLFSDL VHTTESLRQC RLSSGKAEKE SANLDFVLEP YKLENTRLNK ENNELYLELM KLRECSDKHI KDLKTTLKKC SRETADLKFL NNQYVHKVKV LEKESKAKDE KIQQLQEKNL RAVVQTPGGR KRNIAFRRQR MQIDEPAPPS EVSAYPVPQP EDPYIADLLQ VADNRIQELQ EEVQQLQEKL AQMEKGVLDY SKQIELRERE IQRLSLALDG GCSPDVLSLE TRNKTNEKLI AHLNVQVDFL QQANKELEKH IQELMETKET VTTEVVNLSN RNEKLCQELT EIDQLAQRLE RHKEQVLETA DKELGEAKKE IKRNLCEMRN LEEKMSKLQW ELDLSHKEKE RLNSELLLKS DLETVVHQLE QEKQRLSKKL QSFAVTEREL TLEVERMRLE HGIKRRDKSP SRLDTFLKGI EEERDYYKKE LEKLQHLIQR RSCAINYSAR EKPPVVKCSE KGDCSTDVHL ITRERDELQR MLERFEKYME DIQSNVKLLT AERDKLNVLY KEAKEELSTL RKESTNSTSP NHLVSCVEKE KERALSELRR ITAEKEALRE KLKNIQERNA VGKSDLEKTI EHLTYINHQL ENEKYELQSK MLMMKETVES LENKSKLQAQ KLSHVTGDSS

HQKTEMTSLR IVSEQLQRSL DDCQHRLSIK RGELESAQEQ IKMLEQKLEN LSHRMTVQSE ETHAMKKTIG VMDKEKDFLQ ETVDEKTEKI ANLQESLLSK EKVIAQLKVT VAEYETSLNQ LQETLTTRDR EINSLRRQLD ASHKELDDVG KSREISFKEN RRLQDDLATM ARENQEISLE LEAAVQEKEE MKSRVHKYIT EVSRWESLMA AKEKENKDLL DRFQMLHSRA EDWEVKAQQA EGENSSVRLE LLSIDTERRH LRERVDLLEK EIQEHINAHH AYESQISSMA KAMSQLEEEL RRHESEKATM LGDVSSLREL CIKLDSGKDV MTQQLNSKSL ELERAVAELE NVKSESELLK KQLTNERQTI KNLESLLATN RDKEFQSHLT SHEKDTEIQL LKEKLNLSES KLTTQSRETS MLRTKVTQLQ TDYDNLKRQM SNEKYERERA IQEMRRLGLP TSPLSSTLKS PVQTPDHINA

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:

Product Details

- 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:	CEP135
Alternative Name:	Cep135 (CEP135 Products)
Background:	Centrosomal protein of 135 kDa (Cep135) (Centrosomal protein 4),FUNCTION: Centrosomal microtubule-binding protein involved in centriole biogenesis. Acts as a scaffolding protein during early centriole biogenesis. Required for the targeting of centriole satellite proteins to centrosomes such as of PCM1, SSX2IP and CEP290 and recruitment of WRAP73 to centrioles. Also required for centriole-centriole cohesion during interphase by acting as a platform protein for CEP250 at the centriole. Required for the recruitment of CEP295 to the proximal end of new-born centrioles at the centriolar microtubule wall during early S phase in a PLK4-dependent manner (By similarity). {ECO:0000250|UniProtKB:Q66GS9}.
Molecular Weight:	133.3 kDa
UniProt:	Q6P5D4
Pathways:	M Phase, SARS-CoV-2 Protein Interactome

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.

Application Details

	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