

Datasheet for ABIN3135680

NCAPG2 Protein (AA 1-1138) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NCAPG2
Protein Characteristics:	AA 1-1138
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPG2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEKREAFIQA VSKELVEEFL QFLQLDKDSS NPFSLSELLD ELSRKQKEEL WQRLKDLLTE</p> <p>TLLESPVDRW QTVEVEGADD MESEHSPKMR KSIKIICAIV TVILASVSII NEHENYGALL</p> <p>ECAVILNGIL YALPESEQKL QNSIQDLCVK WWERGLPAKE DMGKTAFIML LRRSLETKSG</p> <p>ADVCRWLWRIH QALYCFDYDW EESREIKDML LECFINVNYI KKEEGRRFLS FLFSWNVDFI</p> <p>KMIHETIKNQ LAGLQKSLMV HIAEIYFRAW KKASGKMLET IEYDCIQDFM FHGIHLLRRS</p> <p>PVHSKVREVL SYFHQQKVRQ GVEEMLYRLY KPILWRGLKA RNSEVRSNAA LLFVEAFPIR</p> <p>DPNFTATEMD NEIQKQFEEL YNLIEDPYPR VRSTGILGVC KISSKYWEMM PPNILVDFLK</p> <p>KVTGELAFDI SSADVRCVSF KCLPIILDNK LSHPLLEQLL PTLRYSLHDN SEKVRVAFVD</p> <p>LLLKIKAVRA AKFWKICPME DILVRLEMDS RPSVRRVLVSL IFNSFLPVNQ PEEVWCERCV</p> <p>TLIQMNRAAA RRFYQYAHEH TASTNIAKLI HVIRHCLNAC IQRTLREGSE AHKECEKENA</p> <p>SVLDKTL SVN DTASMAGLLE IIVILWKNIH RSLENNKEAK IYTINKFAAV LPEYLKVKFD</p>

ERCKIPLFML MSFLPASAVP VFSCGVISVL RNQESVTGRS YCTLLDCLCS WGQVGHVLEL
IVDWLPTVPP QAKSNLASKR KVEINDTCSV KPELALLYME YLLTHPKNRE CLLSVPQKKL
NQLLKALEGS KAELESFLQS PSGNPLNFNK ATALHAFGLY CRMSVHLQYK FCSEEKIHLS
ILDDTGSWLE NKVLPILLEDQ EEEYLKLRKD VYQQIIQTYL AVCKDVVMVG LGDPKFQMQL
LQRSFGIMKT VKGFFYVSL L GILKEIAGN TIIHKTDSD E KVTVFLDLVQ EVFQKMLECI
ACIFRKQPEE SLPLFHSVQT PLHEFITTQ SWHKDTAVHH AVLSTLIAAP VVEISHQLQK
VSDIEELTSP QCLHDLPPFS RCLVGVMKS SDVVRSFVDE LKACVTSGDV EGIVCLTAVL
HIILVINKGK HISAKVKEVA TAVYRKLKTF MEITLEEDSL ERFLYESSMR TLGEFLNP

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: NCAPG2

Alternative Name: Ncapg2 ([NCAPG2 Products](#))

Background: Condensin-2 complex subunit G2 (Chromosome-associated protein G2) (CAP-G2) (Leucine zipper protein 5) (More than blood protein) (Non-SMC condensin II complex subunit G2),FUNCTION: Regulatory subunit of the condensin-2 complex, a complex which establishes mitotic chromosome architecture and is involved in physical rigidity of the chromatid axis. Is required for early embryonic development and is essential for viability and expansion of the inner cell mass (ICM) of the implanting blastocyst. {ECO:0000269|PubMed:14729962}.

Molecular Weight: 130.9 kDa

UniProt: [Q6DFV1](#)

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.

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Application Details

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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