

Datasheet for ABIN3136902

SMC6 Protein (AA 1-1097) (Strep Tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 250 µg |
| Target: | SMC6 |
| Protein Characteristics: | AA 1-1097 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SMC6 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

| | |
|-----------|---|
| Brand: | AliCE® |
| Sequence: | <p>MAKRKEENFC SPENAKRPRQ EELEDFDKDG DEDECTISFT NGTSTLTAAE VGIIESIQLR</p> <p>NFMCHSMLGP FKFGSNVNFV VGNNSGSKSA VLTALIVGLG GKAVATNRGS SLKGFVKAGQ</p> <p>NSADISITLR NRGDDAFRAN VYGDSIVVQQ HISVDGSRSY KLKSEKGTVV STRKEELIAI</p> <p>LDHFNIQVDN PVSVLQEMS KQFLQSKNEG DKYKFFMKAT QLEQMKEDYS YIMETKERTK</p> <p>EQINQGEERL TELKRQCLEK EERFQNIAGL STMKTNLEYL KHEMAWAVVN EIEKQLNAIR</p> <p>DNIKIGEERA AKLDRKMEEQ QVRLNDAEKK YKDIQDKLEK ISEETNARAP ECMALKTDVI</p> <p>ARTRAFND AE VLYNRSLNEY KALKKDGEQL CKRIEELKKS TDQSLEPERL ERQKRICWLK</p> <p>EKV KALQDQE HTVNQAEQF EQAIEKDKQE HGRVRKEDIE VRHALNYNQR QLKELKDSKT</p> <p>DRLKRFGPHV PALLEAIDDA YRRRQFTHKP IGPLGACIHL RDP ELALAIE SCLKGLLQAY</p> <p>CCHNHADERV LQSLMKKFYP PGTSRPQIIV SEFRDEVYDV RLRAAYHPEF PTVLTALEID</p> <p>NAVVANSLID MRSIETVLLI KNNSVARAVM QSQKPPKNCR EAFTADGDQV FAGRYYSSES</p> |

TRPKFLSRDV DSEISDLETE IENKKGHIIT LQQRSALEK DIKRNEELLK RCQLHYKEIK MKIRKNISEI
RELENIEEHQ SVDIATLEDE AEENKIKMQM VEKNMEQQKE NMENLKSLKI EAENKYDTIK
LKINQLSELA DPLKDELNLA DSEVDSQKRG KQHYEDKQKE HLDTLNKKRR ELDMKEKELQ
EKMSQARQIC PERIEVKKSA SILDKEINRL RQKIQAEHAS HGDREEIMKQ YQEARETYLD
LDNKVRTLRR FIKLLEEIMT HRYKTYQQFR RCLTLRCKLY FDNLLSQRAY CGKMNFDHKN
ETLSITVQPG EGNKASFNDM RALSGGERSF STVCFILSLW SIAESPFRCCL DEFVDVYMDMV
NRRIAMDMIL KMADSQRFRQ FILLTPQSMS SLPSSKLIRI LRMSDPERGQ TTLPRFPVTQ
EEDDSAS

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: SMC6

Alternative Name: Smc6 ([SMC6 Products](#))

Background: Structural maintenance of chromosomes protein 6 (SMC protein 6) (SMC-6) (mSMC6),FUNCTION: Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components (By similarity). {ECO:0000250}.

Molecular Weight: 127.2 kDa

UniProt: [Q924W5](#)

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