

Datasheet for ABIN7564866  
**SMC6 Protein (AA 1-1097) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SMC6
Protein Characteristics:	AA 1-1097
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Smc6 Protein expressed in mammalien cells.
Sequence:	MAKRKEENFC SPENAKRPRQ EELEDFDKDG DEDECTISFT NGTSTLTAAE VGIIESIQLR NFMCHSMLGP FKFGSNVNFV VGNNGSGKSA VLTALIVGLG GKAVATNRGS SLKGFVKAGQ NSADISITLR NRGDDAFRAN VYGDSIVVQQ HISVDGSRSY KLKSEKGTVV STRKEELIAI LDHFNIQVDN PVSVLQEMMS KQFLQSKNEG DKYKFFMKAT QLEQMKEDYS YIMETKERTK EQINQGEERL TELKRQCLEK EERFQNIAGL STMKTNLEYL KHEMAWAVVN EIEKQLNAIR DNIKIGEERA AKLDRKMEEQ QVRLNDAEKK YKDIQDKLEK ISEETNARAP ECMALKTDVI ARTRAFNDAE VLYNRSLNEY KALKKDGEQL CKRIEELKKS TDQSLEPERL ERQKRICWLK EKVKALQDQE HTVNQAEAEQF EQAIEKDKQE HGRVRKEDIE VRHALNYNQR QLKELKDSKT DRLKRFGPHV PALLEAIDDA YRRRQFTHKP IGPLGACIHL RDPALALAI SCLKGLLQAY CCHNHADERV LQSLMKKFYP PGTSRPQIIV SEFRDEVYDV RLRAAYHPEF PTVLTALEID NAVVANSLID MRSIETVLLI KNNSVARAVM QSQKPPKNCR EAFTADGDQV FAGRYYSSES

## Product Details

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TRPKFLSRDV DSEISDLETE IENKKGHIIT LQQRSALEK DIKRNEELLK RCQLHYKEIK MKIRKNISEI  
RELENIEEHQ SVDIATLEDE AEENKIKMQM VEKNMEQQKE NMENLKSLKI EAENKYDTIK  
LKINQLSELA DPLKDELNLA DSEVDSQKRG KQHYEDKQKE HLDTLNKKRR ELDMKEKELQ  
EKMSQARQIC PERIEVKKSA SILDK EINRL RQKIQAEHAS HGDREEIMKQ YQEARETYLD  
LDNKVRTLRR FIKLLEEIMT HRYKTYQQFR RCLTLRCKLY FDNLLSQRAY CGKMNFDHKN  
ETLSITVQPG EGNKASFNDM RALSGGERSF STVCFILSLW SIAESPFRCCL DEFVDVYMDMV  
NRRIAMDMIL KMADSQRFRQ FILLTPQSMS SLPSSKLIRI LRMSDPERGQ TTLPFRPVTQ  
EEDDSAS **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

SMC6

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### Alternative Name:

Smc6 ([SMC6 Products](#))

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### 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

## Target Details

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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}.

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Molecular Weight: 127.2 kDa

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UniProt: [Q924W5](#)

## Application Details

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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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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months