

Datasheet for ABIN755577  
**SMC4 Protein (AA 1-1288) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SMC4
Protein Characteristics:	AA 1-1288
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat SMC4 Protein expressed in mammalian cells.
Sequence:	<p>MPRKGQTQPST ARRREEGPPP PSPDGASSDA EPEPPSGRTE SPATAAETAS EELDNRSLLEE ILNSIPPPPP PAMTNEAGAP RLMITHIVNQ NFKSYAGEKI LGPFHKRFSC IIGPNGSGKGS NVIDSMLFVF GYRAQKIRSK KLSVLIHNSD EHKDIQSCTV EVHFQKIIDK EGDDYEVIPN SNFYVSRTAC RDNTSVYHIS GKKTTFKDVG NLLRSHGIDL DHNRFLILQG EVEQIAMMKP KGQTEHDEGM LEYLEDIGC GRLNEPIKVL CRRVEILNEH RGEKLN RVKM VEKEKDALEG EKNIAIEFLT LENEIFRKKH HVCQYYIYEL QKRIAEMETQ KEKIHEDTKE INEKSNI LSN EMKAKNKDVK DTEKLNKIT KFIEENKEKF TQLDLEDVQV REKLNK HATSK AKKLEKQLQK DKEKVEEFKS IPAKSNNIIN ETTTRNNALE KEKEKEEKKL KEVMSLQKQE TQGLQKEKES REKELMGFSK SVNEARSKMD VAQSELDIYL SRHNTAVSQL TKAKEALIAA SETLKERKAA IRDIEGKLPQ TEQELKEKEK ELQKLTQEET NFKSLVHDLF QKVVEAKSSL AMNRSRGKVL DAIQEKKSG RIPGIYGR LG DLGAIDEKYD VAISSCCHAL DYIVVDSIDI AQECVNFLKR QNIGVATFIG</p>

LDKMAVWAKK MTEIQTpent PRLFDLVKVK DEKIRQAFYF ALRDTLVADN LDQATRVAYQ  
KDRRWRVVTl QGQIIEQSGT MTGGGSKVMK GRMGSSLVIE ISEEEVNKME SQLQNDSSKA  
MQIQEQKVQL EERVVKLRHS EREMNTLEK FTASIQRLIE QEEYLVNQVK ELEANVLATA  
PDKKKQKLE ENVSAFKTEY DAVA EKAGKV EAEVKRLHNT IVEINNHKLLK AQQDKLDKIN  
KQLDECASAI TKAQVAIKTA DRNLQKAQDS VLRTEKEIKD TEKEVDDLTA ELKSLEDKAA  
EYVKNNTAAE ESLPEIQKEH RNLLQELKVI QENEHALQKD ALSIKLKLEQ IDGHIAEHNS  
KIKYWHKEIS KISLHPIEDN PIEEISVLSP EDLEAIKNPD SITNQIALLE ARCHEMKPNL GAIAEYKKKE  
ELYLQRVAEL DKITYERDSF RQAYEDLRKQ RLNEFMAGFY IITNKLKENY QMLTLGGDAE  
LELVDSLDPF SEGIMFSVRP PKKSWKKIFN LSGGEKTLSS LALVFALHHY KPTPLYFMDE  
IDAALDFKNV SIVAFYIEQ TKNAQFIIIS LRNNMFEISD RLIGIYKTYN ITKSVAVNPK EIASKGLC

**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:

SMC4

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### Alternative Name:

SMC4 ([SMC4 Products](#))

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## Target Details

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Background:	Structural maintenance of chromosomes protein 4 (SMC protein 4) (SMC-4) (Chromosome-associated polypeptide C) (hCAP-C) (XCAP-C homolog),FUNCTION: Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases. {ECO:0000269 PubMed:11136719}.
Molecular Weight:	147.2 kDa
UniProt:	<a href="#">Q9NTJ3</a>

## 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.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months