

Datasheet for ABIN755525  
**SMC2 Protein (AA 1-1197) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SMC2
Protein Characteristics:	AA 1-1197
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat SMC2 Protein expressed in mammalian cells.
Sequence:	MHIKSIILEG FKSIAQRTEV NGFDPLFNAI TGLNGSGKSN ILDSICFLG ISNLSQVRAS NLQDLVYKNG QAGITKASVS ITFDNSDKKQ SPLGFEVHDE ITVTRQVVIG GRNKYLINGV NANNTRVQDL FCSVGLNVNN PHFLIMQGRI TKVLNMKPPE ILSMIEEAAG TRMYEYKKIA AQKTIEKKEA KLKEIKTILE EEITPTIQL KEERSSYLEY QKVMREIEHL SRLYIAYQFL LAEDTKVRS EELKEMQDKV IKLQEELSEN DKKIKALNHE IEELEKRDK ETGGILRSLE DALAEAQRVN TKSQSAFDLK KKNLACEESK RKELEKNMVE DSKTLAAKEK EVKKITDGLH ALQEASNKDA EALAAAQHF NAVSAGLSSN EDGAEATLAG QMMACKNDIS KAQTEAKQAQ MKLKHAQQEL KNKQAEVKKM DSGYRKDQEA LEAVKRLKEK LEAEMKKLNY EENKEESLLE KRRQLSRDIG RLKETYEALL ARFPNRFAY KDPEKNWNRN CVKGLVASLI SVKDTSATTA LELVAGERLY NVVVDTEVTG KKLLERSELK RRYTIPLNK ISARCIAPET LRVAQNLVGP DNVHVALSLV EYKPELQKAM EFVFGTTFVC DNMDNAKKVA FDKRIMTRTV TLGGDVDFPH GTLSGGARSQ

## Product Details

---

AASILTKFQE LKDVQDELRI KENELRALEE ELAGLKNTAE KYRQLKQWE MKTEEADLLQ  
TKLQQSSYHK QQEELDALKK TIEESEETLK NTKEIQRKAE EKYEVLNKM KNAEAERERE  
LKDAQKLDK AKTKADASSK KMKEKQVEVE AITLELEELK REHTSYKQQL EAVNEAIKSY  
ESQIEVMAAE VAKNKESVNK AQEEVTKQKE VITAQDTVIV AKYAEVAKHK EQNNDSQLKI  
KELDHNISKH KREAEDGAAK VSKMLKDYDW INAERHLFGQ PNSAYDFKTN NPKEAGQRLQ  
KLQEMKEKLG RNVNMRAMNV LTEAEERYND LMKKKRIVEN DSKILTITIE DLDQKKNQAL  
NIAWQKVNKD FGSIFSTLLP GANAMLAPPE GQTVLDGLEF KVALGNTWKE NLTELSGGQR  
SLVALSLILS MLLFKPAPIY ILDEVDAALD LSHTQNIGQM LRTHFTHSQF IVVSLKEGMF  
NNANVLFKTK FVDGVSTVAR FTQCQNGKIS KEAKSKAKPP KGAHVEV **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.**

---

### 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.

---

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

Grade: custom-made

---

## Target Details

---

Target: SMC2

Alternative Name: SMC2 ([SMC2 Products](#))

Background: Structural maintenance of chromosomes protein 2 (SMC protein 2) (SMC-2) (Chromosome-

## Target Details

---

associated protein E) (hCAP-E) (XCAP-E 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: 135.7 kDa

UniProt: [O95347](#)

## 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.

Restrictions: For Research Use only

## Handling

---

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