



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Datasheet

### MCM4 (Human) Recombinant Protein (P01)

**Catalog Number:** H00004173-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human MCM4 full-length ORF (AAH31061.1, 1 a.a. - 863 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MSSPASTPSRRGSRRRGRATPAQTPRSEDARSSPSQR  
RRGEDSTSTGELQPMPTSPGVLDLQSPAAQDVLFSPP  
PQMHSIAIPLDFDVSSPLTYGTPSSRVEGTTPRSGVVRG  
TPVRQRPDLDGSAQKGLQVDLQSDGAAEDIVASEQSL  
GQKLVWGTDVNVAACKENFQRFLQRFDPLAKEEEN  
VGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFCKNL  
YRQLISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVR  
PFNALKTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQ  
EAFFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTTHS  
MALIHNRSFLFSKQMIKLQESPEDMPAGQTPHTVILFA  
HNDLVDKVQPGDRVNVGTGIYRAVPIRVNPRVSNVKS  
YKTHIDVIHYRKTDAKRLHGLDEEAEQKLFSEKRVELL  
KELSRKPDYERLASALAPSIYEHEDIKKGILLQLFGGTR  
KDFSHTGRGKFRAEINILLCGDPGTSKSQLLYVYNLV  
PRGQYTSKGSSAVGLTAYVMKDPETRQLVLQTGAL  
VLSDNGICCIDEFDKMNESTRSVLHEVMEQQTLIAKA  
GIICQLNARTSVLAAANPIESQWNPKKTTIENIQLPHTLL  
SRFDLIFLMLDPQDEAYDRRLAHLVALYQSEEQAE  
ELLDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMR  
KIGSSRGMVSAYPRQLESILRLAEAHAKVRLSNKVEAI  
DVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATS  
KRKEELAEALKKLILSKGKTPALKYQQLFEDIRGQSDIAI  
TKDMFEEALRALADDDFLTVTGKTVRL

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 123

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression](#)

[system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 4173

**Gene Symbol:** MCM4

**Gene Alias:** CDC21, CDC54, MGC33310, P1-CDC21, hCdc21

**Gene Summary:** The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre-RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq]

**References:**

1. The selection and characterization of antibodies to minichromosome maintenance proteins that highlight cervical dysplasia. Henderson D, Hall L, Prpic N, Hessling J, Parker M, Sampson S, Simkins S, Brough G, Dixon E, Lenz K, Knapp S, Murphy P, Taylor A, Fischer T, Malinowski DP. J Immunol Methods. 2011 May 12. [Epub ahead of print]