

Datasheet for ABIN7563647

MCM9 Protein (AA 1-1134) (His tag)



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Overview

Quantity:	1 mg
Target:	MCM9
Protein Characteristics:	AA 1-1134
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCM9 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Mcm9 Protein expressed in mammalian cells.
Sequence:	<p> MNSEQVTLVG QVFESYVSEY HKNDILLILK ERDEDAHYPV VVNAMSLFET NMEIGDYFTV FPNEVLTVFD SALRRSALAI LQSLPETEGL SMKQNLHARI SGLPVCPELV REHIPKTKDV GHFLSVTGTV IRTSLVKVLE FERDYMCNKC KHVFMVEADF EQYYTFSRPS SCPSLASCD SKFSCLSDLSSSPARCRDYQ EIKIQEQVQR LSVGSIPRSM KVILEDLVD SCKSGDDLTI YGVVMQRWKP FQRDVRCEVE IVLKANYVQV NNEQSSGMVM DEDTRKEFED FWEHYKSDPF AGRNEILASL CPQVFGMYLV KLAVAMVLG GIQRTDAAGT RVRGESHL L VGDPTGKSQ FLKYAAKITP RSVLTTGIGS TSAGLTVTAV KDSGEWNLEA GALVLADAGL CCIDEFNSLK EHDRTSIHEA MEQQTISVAK AGLVCKLNTR TTILAATNPK GQYDPKESVS VNIALGSPLL SRFDLVLVLL DTRNEDWDRI ISSFILENKG YPSKSENLS MEKMKTYFCL IRNLHPTLSE VSNQVLLRYY QMQRQSDSRN AARTTIRLLE SLIRLAEAHA RLMFRSAVTL EDAVTAVSVM ESSMQGGALL GGVNALHTSF PENPRAQYQR QCELILEKLE LQGLLQEELR RLRLQNESV </p>

HQCQSHSLEE EVAPGSCRND PRDKPRLRTS TQQEQSCSWS STERSGADSP PGPGLNRPTS
CNNSAENRDG RGDGLDWLDP TSSPEIAPES TIVSPNVKTT EKNVNLKISN NKSQGKEKHG
PQQRSKLLEA GHLPSSGAMN APLRSHGVKR TKASQAVVVS EAGRGDEEDS VPRRLPKLLK
EGSQNVCRST TRVRPLPPTV PLSLSIPSPG SGKRSGTPKR KRRKSAQVEE PEPEGMETPT
VKLAKFTFKQ KTKLTHSPEG QGPIPPSASE IAVDSSKIPQ QRTREAAVP VVAPGKSTST
SGDRCSQLH GGTKELSRQP PDSNPPREER EQGPKRRVIQ PKPELGNQAG HSHLACEKDR
KEGVSCGNKS SKVHAGTIAR LASFSFTSPS ESKSESLPPE RKDSRDSRDS RDSRDRCHSP
PATTAPVLGQ QRQTFQLQQP TERANLSTLS LFTLSELDDE ALDFDWEEEM RKKP **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	MCM9
Alternative Name:	Mcm9 (MCM9 Products)
Background:	DNA helicase MCM9 (EC 3.6.4.12) (Mini-chromosome maintenance deficient domain-containing protein 1) (Minichromosome maintenance 9),FUNCTION: Component of the MCM8-

Target Details

MCM9 complex, a complex involved in the repair of double-stranded DNA breaks (DBSs) and DNA interstrand cross-links (ICLs) by homologous recombination (HR) (PubMed:23401855, PubMed:22771120). Required for DNA resection by the MRE11-RAD50-NBN/NBS1 (MRN) complex at double-stranded DNA breaks to generate ssDNA by recruiting the MRN complex to the repair site and by promoting the complex nuclease activity (By similarity). Probably by regulating the localization of the MNR complex, indirectly regulates the recruitment of downstream effector RAD51 to DNA damage sites including DBSs and ICLs (PubMed:22771120, PubMed:23401855). Acts as a helicase in DNA mismatch repair (MMR) following DNA replication errors to unwind the mismatch containing DNA strand (PubMed:22771120, PubMed:26300262). In addition, recruits MLH1, a component of the MMR complex, to chromatin (By similarity). The MCM8-MCM9 complex is dispensable for DNA replication and S phase progression (PubMed:21987787). Probably by regulating HR, plays a key role during gametogenesis (PubMed:21987787, PubMed:22771120). {ECO:0000250|UniProtKB:Q9NXL9, ECO:0000269|PubMed:21987787, ECO:0000269|PubMed:22771120, ECO:0000269|PubMed:23401855, ECO:0000269|PubMed:26300262}.

Molecular Weight: 125.8 kDa

UniProt: [Q2KHI9](#)

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