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# Datasheet for ABIN3133430 MCM3 Protein (AA 2-812) (His tag)

Image



### Overview

Quantity:	1 mg
Target:	MCM3
Protein Characteristics:	AA 2-812
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCM3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence:	AGTVVLDDVE LREAQRDYLD FLDDEEDQGI YQNKVRELIS DNQYRLIVSV NDLRRKNEKR
	ANRLLNNAFE ELVAFQRALK DFVASIDATY AKQYEEFYIG LEGSFGSKHV SPRTLTSCFL
	SCVVCVEGIV TKCSLVRPKV VRSVHYCPAT KKTIERRYSD LTTLVAFPSS SVYPTKDEEN
	NPLETEYGLS VYKDHQTITI QEMPEKAPAG QLPRSVDVIL DDDLVDKVKP GDRIQVVGTY
	RCLPGKKGCY TSGTFRTVLI ACNVKQMSKD IQPAFSADDI AKIKKFSKTR SKDVFEQLAR
	SLAPSIHGHD YVKKAILCLL LGGVERELEN GSHIRGDINI LLIGDPSVAK SQLLRYVLCT
	APRAIPTTGR GSSGVGLTAA VTTDQETGER RLEAGAMVLA DRGVVCIDEF DKMSDMDRTA
	IHEVMEQGRV TIAKAGIHAR LNARCSVLAA ANPVYGRYDQ YKTPMENIGL QDSLLSRFDL
	LFIMLDQMDP EQDREISDHV LRMHQYRAPG EQDGDALPLG SSVDILATDD PDFTQDDQQD
	TRIYEKHDSL LHGTKKKKEK MVSAAFMKKY IHVAKIIKPT LTQESAAYIA EEYSRLRSQD
	SMSSDTARTS PVTARTLETL IRLATAHAKA RMSKTVDLQD AEEAVELVQY AYFKKVLEKE
	KKRKKASEDE SDLEDEEEKS QEDTEQKRKR RKTHAKDGES YDPYDFSEAE TQMPQVHTPK

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	TDDSQEKTDD SQETQDSQKV ELSEPRLKAF KAALLEVFQE AHEQSVGMLH LTESINRNRE
	EPFSSEEIQA CLSRMQDDNQ VMVSEGIVFL I
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Mcm3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin free.

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### Product Details

#### Grade:

Crystallography grade

# Target Details

Target:	MCM3
Alternative Name:	Mcm3 (MCM3 Products)
Background:	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif i provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for DNA replication and cell proliferation.
Molecular Weight:	92.4 kDa Including tag.
UniProt:	P25206
Pathways:	DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication, Chromatin Binding, Synthesis of DNA

# 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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

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## Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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