



# Recombinant Mouse DNA replication licensing factor MCM7 (Mcm7)

<b>Product Code</b>	CSB-EP737046MO
<b>Abbreviation</b>	Mcm7
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q61881
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>ALKDYAIEK EKVKKFLQEF YYENELGKKQ FKYGTQLVHL AHREQVALYV  DLDDIAEDDP ELVDSICENA KRYSRLFGDV VQELLPEYKE KEVVNKDVLD  VYIEHRLMME QRSRDPGAVR NPQNQYPSEL MRRFELYFRG PSSSKPRVIR  EVRADSVGKL LTVRGIVTRV SEVKPRMVVA TYTCDQCGAE TYQPIQSPTF  MPLIMCPSQE CQTNRSGGRL YLQTRGSKFV KFQEMKIQEH SDQVPVGNIP  RSITVVLEGE NTRIAQPGDH VSVTGIFLPV LRTGFQQMAQ GLLSETYLEA  HWIVKMTKSD DDVSGAGELS SEELKQIAEE DFYEKLAASI APEIYGHEDV  KKALLLLL VG GVDQSPQGMK IRGNIHICLM GDPGVAKSQ LSYIDRLAPR  SQYTTGRGSS GVGLTAAVLR DSVSGELTLE GGALVLADQG VCCIDEFDKM  AEADRTAIHE VMEQQTISIA KAGILTTLNA RCSILAAANP AYGRYNPRRS  LEQNVQLPAA LLSRFDLLWL IQDRPDRDND LRLAQHITYV HQHSRQPPAQ  FEPLDMKLMR RYIAMCHERQ PTVPESLADY ITAAYVEMRR EARASKDATY  TSARTLLAIL RLSTALARLR MVDIVEKEDV NEAIRLMEMS KDSLLGEKGGQ  TARTQRPADV IFATIRELVS RGRSVHFSEA EQRCISRGFT PAQFQAALDE  YEELNVWQVN TSRTRITFV</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Mcm7
<b>Protein Names</b>	Recommended name: DNA replication licensing factor MCM7 EC= 3.6.4.12 Alternative name(s): CDC47 homolog
<b>Expression Region</b>	2-719
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein 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 the 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, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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