

Product datasheet for SC309663

MCM10 (NM 182751) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MCM10 (NM_182751) Human Untagged Clone

Tag: Tag Free Symbol: MCM10

Synonyms: CNA43; DNA43; PRO2249

Mammalian Cell

Selection:

None

Vector: pCMV6-XL4

E. coli Selection: Ampicillin (100 ug/mL)

Restriction Sites: Notl-Notl **ACCN:** NM 182751

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional

amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA.

Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence

verification at a reduced cost. Please contact our customer care team at

custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to differ from the

protein associated to this reference by a single amino acid.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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Reconstitution Method:

- 1. Centrifuge at 5,000xg for 5min.
- 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
- 3. Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
- 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeg: NM 182751.1, NP 877428.1

 RefSeq Size:
 4535 bp

 RefSeq ORF:
 2628 bp

 Locus ID:
 55388

 UniProt ID:
 Q7L590

 Cytogenetics:
 10p13

Protein Families: Stem cell - Pluripotency

2008]

Gene Summary: The protein encoded by this gene is one of the highly conserved mini-chromosome

maintenance proteins (MCM) that are involved in 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 it may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein can interact with MCM2 and MCM6, as well as with the origin recognition protein ORC2. It is regulated by proteolysis and phosphorylation in a cell cycle-dependent manner. Studies of a similar protein in Xenopus suggest that the chromatin binding of this protein at the onset of DNA replication is after pre-RC assembly and before origin unwinding. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul

Transcript Variant: This variant (1) uses a different splice site, compared to variant 2, that

results in a longer isoform (1). Though this variant is supported by EST data, the existence of its encoded isoform has not been experimentally verified.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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