

## Product datasheet for **RC202506L4V**

### **MCM2 (NM\_004526) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	MCM2 (NM_004526) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MCM2
Synonyms:	BM28; CCNL1; cdc19; CDCL1; D3S3194; DFNA70; MITOTIN
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004526
ORF Size:	2712 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202506).
OTI Disclaimer:	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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_004526.2</a>
RefSeq Size:	3504 bp
RefSeq ORF:	2715 bp
Locus ID:	4171
UniProt ID:	<a href="#">P49736</a>
Cytogenetics:	3q21.3
Domains:	MCM
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors



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**Protein Pathways:** Cell cycle, DNA replication

**MW:** 101.9 kDa

**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 may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]