

Product datasheet for MR202178

Gmn (NM_020567) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmn (NM_020567) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmn
Synonyms:	AW546347; Gem
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202178 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAATCTCAGTATGAAGCAGAAGCAGGAGGGAGCCCAAGAGAATGTGAAGAATAGTCTGTCCCAAGGA
GAACGCTGAAGATGATCCAGCCTTCTGCAGATGGATCTCTTGTGGCAGAGAAAATGAGTTGCCAAAAGG
CTTGTTCAAAAGGAAGCTTTGGGATGACCAGCTAGCATCTCAGACTTCAAGCTGTGGTCCAGAAGCTAAT
GAAAATAAGGATGTTGGAGACCTACCCAGGAAGCCTTTGATCTTATAAGTAAAGAGAACCCATCTTCTC
AGTATTGGAAGAAGTGGCAGAGCAGCGGAGGAAAGCTCTCTACGAAGCACTGAAAGAGAATGAGAACT
TCATAAAGAAATTGAACAAAAGGACAGTGAGATTGCCCGCTGAGAAAGGAGAATAAAGACTTGGCAGAA
GTAGCTGAGCACGTGCAGTACATGGCGGAGTAATCGAGAGGCTGAGTAATGAACCTCTGGATAACTTTG
AATCACCGGATAGTCAGGAATTTGATTCTGAAGAAGAAGCTGTTGAGTATTGAGAACTGGAAGACTCAGG
AGCTGGGACGTGTGCTGAAGAGACTGTGTCTTCTCCACGGATGCTAGGCCGTGTACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR202178 protein sequence Red=Cloning site Green=Tags(s)
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MNLSMKQKQEGAQENVKNSPVRRLKMIQPSADGSLVGRENELPKGLFKRKLWDDQLASQTSSCGPEAN
ENKDVGDLTQEAFLISKENPSSQYWKEVAEQRRKALYEALKENEKLHKEIEQKDEIARLRKENKDLAE
VAEHVYMAEVIERLSNEPLDNFESPDSEEFDSSEEEAVEYSELEDSGAGTCAEETVSSSDARPCT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020567

ORF Size: 621 bp

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

- 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.

RefSeq: [NM_020567.1](#), [NM_020567.2](#), [NP_065592.1](#)

RefSeq Size: 995 bp

RefSeq ORF: 621 bp

Locus ID: 57441

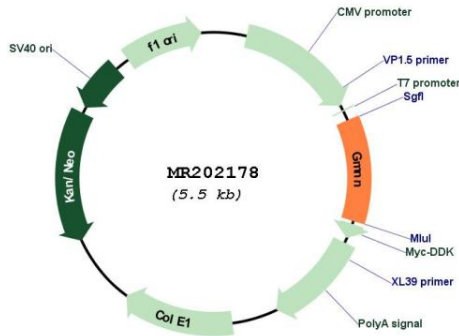
UniProt ID: [O88513](#)

Cytogenetics: 13 A3.1

MW: 23.3 kDa

Gene Summary: Inhibits DNA replication by preventing the incorporation of MCM complex into pre-replication complex (pre-RC). It is degraded during the mitotic phase of the cell cycle. Its destruction at the metaphase-anaphase transition permits replication in the succeeding cell cycle. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202178