

Product datasheet for **MG202178**

Gmn (NM_020567) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gmn (NM_020567) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gmn
Synonyms: AW546347; Gem
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202178 representing NM_020567
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATCTCAGTATGAAGCAGAAGCAGGAGGGAGCCCAAGAGAATGTGAAGAATAGTCCTGTCCCAAGGA
 GAACGCTGAAGATGATCCAGCCTTCTGCAGATGGATCTCTTGTGGCAGAGAAAAAGAGTTGCCAAAAGG
 CTTGTTCAAAGGAAGCTTTGGGATGACCAGCTAGCATCTCAGACTTCAAGCTGTGGTCCAGAAGCTAAT
 GAAAATAAGGATGTTGGAGACCTCACCCAGGAAGCCTTTGATCTTATAAGTAAAGAGAACCCATCTTCTC
 AGTATTGGAAGAAGTGGCAGAGCAGCGGAGGAAAGCTCTCTACGAAGCACTGAAAGAGAATGAGAACT
 TCATAAAGAAATTGAACAAAAGGACAGTGAGATTGCCCGCTGAGAAAGGAGAATAAAGACTTGGCAGAA
 GTAGCTGAGCACGTGCAGTACATGGCGGAGTAATCGAGAGGCTGAGTAATGAACCTCTGGATAACTTTG
 AATCACCGGATAGTCAGGAATTTGATTCTGAAGAAGAAGCTGTTGAGTATTGAGAACTGGAAGACTCAGG
 AGCTGGGACGTGTGCTGAAGAGACTGTCTTCTCCACGGATGCTAGGCCGTGTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202178 representing NM_020567
 Red=Cloning site Green=Tags(s)

MNLSMKQKQEGAQENVKNSPVPRRLLKMIQPSADGSLVGRENELPKGLFKRKLWDDQLASQTSSCGPEAN
 ENKDVGDLTQEAFDLISKENPSSQYWKVAEQRRKALYEALKENEKHLKEIEQKDEIARLRKENKDLAE
 VAEHVQYMAEVIERLSNEPLDNFESPDSQEFDSEEEAVEYSELEDSGAGTCAEETVSSSDARPCT

TRTRPLE - GFP Tag - V

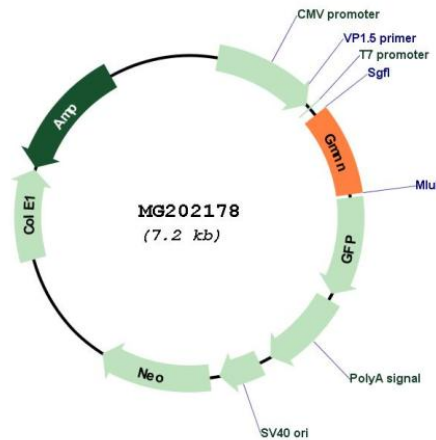
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_020567

ORF Size: 618 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_020567.2](#), [NP_065592.1](#)

RefSeq Size: 995 bp

RefSeq ORF: 621 bp

Locus ID: 57441

UniProt ID: [O88513](#)

Cytogenetics: 13 A3.1

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]