

## Product datasheet for **MC217190**

### Gcm2 (NM\_008104) Mouse Untagged Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Gcm2 (NM_008104) Mouse Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Gcm2                                  |
| Synonyms:                 | Gcm-rs1; Gcm1; Gcm1-rs2               |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-Entry (PS100001)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |



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**Fully Sequenced ORF:**

&gt;MC217190 representing NM\_008104

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

 ATGCCAGCAGACAGCAGCAGGACGAGGATGCTGTGCTCTCTACGGGATGAACTCACGTGGGACATCA  
 ATGACCCACAGATGCCTCAGGAACCAACCACTTTGACCACTTCCGGGAGTGGCCTGATGGCTACGTGCG  
 CTTTCATCTACAGCAGCCAGGAGAAGAAGGCTCAGCGCCACCTGAGTGGCTGGGCCATGCGCAACACCAAC  
 AACCACAATGGCCACATCCTCAAGAACTCCTGCCTGGCGTGGTGGTGTGTGCACGCGCTTGCGCCCTGA  
 AGGATGGCTCGCACCTGCAGCTGAGGCCAGCCATCTGTGACAAGGCCGCTGAAGCAACAAAAGAAAGC  
 TTGCCCAACTGTCACTCACCTTTGGAGCTGGTTCCTTGCCGAGGGCACAGCGGATACCTGTACCAAC  
 TTCTGGAGACTTGATGGCAATGCAATTTTTTTTTCAGGCCAAAGGAGTTTCATGATACCCAGACAGAGA  
 GTAAGTCAGAGACAGAAGGCAGAAGAAGTGCCCTCAAGAGACAGATGGCTTCTTTCTACCAACCCAGAA  
 AAGGAGATCAGGGGAGCCTGAGGCAAGAAGCACTCAGGACATCAGGGGACACCTCAATAGCACGGCTGCC  
 CTGGAACCCACAGAACTATTTGATATGACTGCTGATACAGCTTCCCTATTCCAGGGCAGCCTCCCTT  
 CGTTCCCAAACTCTGATGTCTACAGAGTTACCTGTGACCTGCCACCTTTCAAGGAGATATAATACTGCC  
 CTTTCAGAAATATCCAAATCCAAGCATTATTTCCCGGGCCACCTTGGGGCTATGAGTTGGCAAGTTCT  
 GGGGTTACAGGTTTCGAGTCCATATTTCCACCCTGTATAAAGATTCTCCGAGGTCCCGATGACCCAGATT  
 GGATTCCTCTAACTCACTACAGTATAATGTCACTTCTATGGCAGCTATGAGAGAACCTTGATTTTAC  
 AGCTAGGTATCATAGCTGGAAACCAACACACGGGAAGCCAGCCTTGAGGAGAAGGTTGACTGTGAGCAA  
 TGCCAGGCTGTGCCACATTGCCTTATTACAACCTAGAGCTGCCCTGCAGGTACCTGCCAGTGCCAGCAG  
 CGGGTAGCCAGGCTCTGCAGACAGTAATCACCACACAGTGGCTTACCAGGCCTACCAGCACCTGCTCT  
 GAAACACGGTGACAGCATGCAGGAGGTTAGCAGCCTTGCCAGCTGCACCTATGCCTCGGAAAACCTCCCA  
 ATGCCATCTATCCACAGCCTTAGACCCTCAAGAGGGAGTCATTAGGAGTCTCTCTTCAGGGAGAG  
 CCCCTCTGAAAGTCCCTGGAGACTGCCAGGCCCCAGACCCACTCTGGATTTTCTCAAGAAGCAGATCC  
 CTCCGGGACAGATGGAGCAGATGTGTGGGATGTGTGTCTGTCTGGGGTGGGCTCTGTGATGGGTTACTTA  
 GATAGGACAGGGCAGCCCTTAGCTTTGACAATGAGGACTTT**AG**
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_008104

**Insert Size:**

1515 bp

**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](mailto: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](#)

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u><a href="#">NM_008104.2</a></u> , <u><a href="#">NP_032130.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq Size:</b>           | 2879 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1515 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 107889                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u><a href="#">O09102</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 13 A3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Summary:</b>          | Transcription factor that binds specific sequences on gene promoters and activate their transcription. Through the regulation of gene transcription, may play a role in parathyroid gland development.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                   |