

Product datasheet for **MR225516**

Gcm2 (NM_008104) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcm2 (NM_008104) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR225516 representing NM_008104
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCAGACAGCAGCAGGACGAGGATGCTGTGCTCTCTACGGGATGAACTCACGTGGGACATCA
 ATGACCCACAGATGCCTCAGGAACCAACCACTTTGACCACTTCCGGGAGTGGCCTGATGGCTACGTGCG
 CTTTCATCTACAGCAGCCAGGAGAAGAAGGCTCAGCGCCACCTGAGTGGCTGGGCCATGCGCAACACCAAC
 AACCACAATGGCCACATCCTCAAGAAAGTCTGCCTGGCGTGGTGGTGTGTGCACGCGCTTGCGCCCTGA
 AGGATGGCTCGCACCTGCAGCTGAGGCCAGCCATCTGTGACAAGGCCCGCTGAAGCAACAAAAGAAAGC
 TTGCCCAACTGTCACTCACCTTTGGAGCTGGTTCCTTGGCGAGGGCACAGCGGATACCTGTACCAAC
 TTCTGGAGACTTGATGGCAATGCAATTTTTTTTTCAGGCCAAAGGAGTTTCATGATCACCCAGACCAGAGA
 GTAAGTCAGAGACAGAAGGCAGAAGAAGTGCCCTCAAGAGACAGATGGCTTCTTTCTACCAACCCAGAA
 AAGGAGATCAGGGGAGCCTGAGGCAAGAAGCACTCAGGACATCAGGGGACACCTCAATAGCACGGCTGCC
 CTGGAACCCACAGAACTATTTGATATGACTGCTGATACCACTTCCCTATTCCAGGGCAGCCCTCCCTT
 CGTTCCCAAACTCTGATGTCTACAGAGTTACCTGTGACCTGCCACCTTTCAAGGAGATATAATACTGCC
 CTTTCAGAAATATCCAAATCCAAGCATTATTTCCCGGGCCACCTTGGGGCTATGAGTTGGCAAGTTCT
 GGGGTTACAGGTTTCGAGTCCATATTTCCACCCTGTATAAAGATTCTCCGAGGTCCCGATGACCCAGATT
 GGATTCCTCTAACTCACTACAGTATAATGTGAGTTCCTATGGCAGCTATGAGAGAACCTTGATTTTAC
 AGCTAGGTATCATAGCTGGAACCAACACACGGGAAGCCAGCCTTGAGGAGAAGGTTGACTGTGAGCAA
 TGCCAGGCTGTGCCACATTGCCTTATTACAACCTAGAGCTGCCCTGCAGGTACCTGCCAGTGCCAGCAG
 CGGGTAGCCAGGCTCTGCAGACAGTAATCACCACACAGTGGCTTACCAGGCCTACCAGCACCTGCTCT
 GAAACACGGTGACAGCATGCAGGAGGTTAGCAGCCTTGCCAGCTGCACCTATGCCTCGGAAAACCTCCCA
 ATGCCCATCTATCCACCAGCCTTAGACCCTCAAGAGGGAGTCATTAGGAGTCTCTCTTCAGGGAGAG
 CCCCTCTGAAAGTCCCTGGAGACTGCCAGGCCCCAGACCCACTCTGGATTTTCTCAAGAAGCAGATCC
 CTCCGGGACAGATGGAGCAGATGTGTGGGATGTGTGTCTGTCTGGGGTGGGCTCTGTGATGGGTTACTTA
 GATAGGACAGGGCAGCCCTTAGCTTTGACAATGAGGACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225516 representing NM_008104
 Red=Cloning site Green=Tags(s)

MPADSTQDEDAVLSYGMKLTWDINDPQMPQEPHFDFHREWPDGYYVRFIYSSQEKKAQRHLSGWAMRNTN
 NHNGHILKKSLGVVVCARACALKDGSHLQLRPAICDKARLKQKKACPNCHSPLVPCRGHSGYPVTN
 FWRLDGNAIFFQAKGVHDHPRPESKSETEGRRSALKRQMASFYQPQKRRSGEPEARSTQDIRGHLNSTAA
 LEPTELFDMTADTSFPIPGQSPSPFNSDVYRVTCDLPTFQGDIIILPFQKYPNPSIYFPGPPWGYELASS
 GVTGSSPYSTLYKDSSEVPDDPDWIPLNSLQYNVSSYGSYERTLDFTARYHSWKPTHGKPSLEEKVDCEQ
 CQAVPTLPYYNLELPCRYLPVPAAGSQALQTVITTTVAYQAYQHPALKHGDMSMQEVSSLASCTYASENLP
 MPIYPPALDPQEGVIQAVSPSGRAPLKVPGDCQAPRPTLDFPQEADPSGTDGADVWDVCLSGVGSVMGYL
 DRTGQPFSDNEDF

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

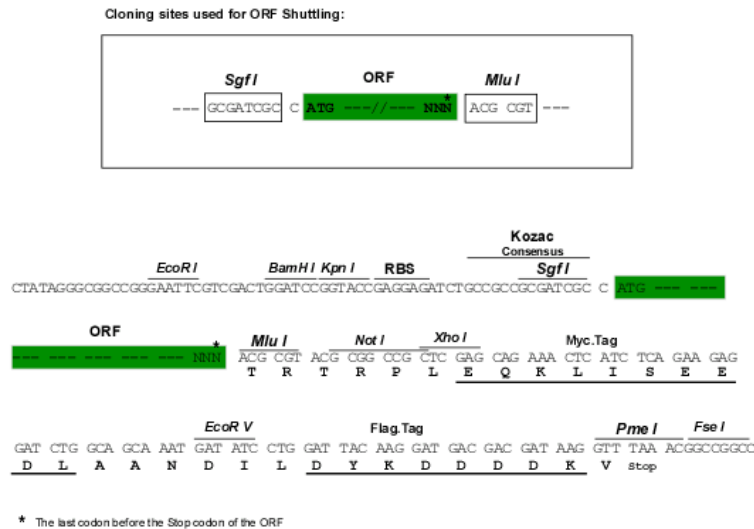
Chromatograms:

https://cdn.origene.com/chromatograms/ja2034_a10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008104

ORF Size: 1512 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 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

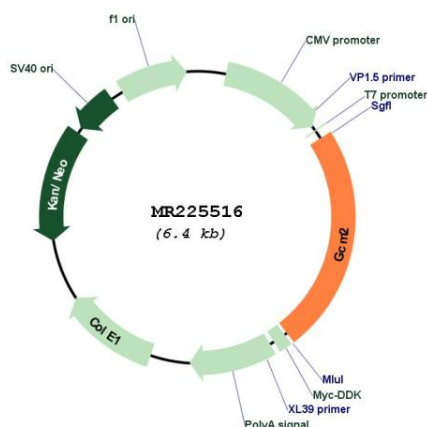
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_008104.2 , NP_032130.2
RefSeq Size:	2879 bp
RefSeq ORF:	1515 bp
Locus ID:	107889
UniProt ID:	O09102
Cytogenetics:	13 A3.3
MW:	56.5 kDa
Gene Summary:	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]

Product images:



Circular map for MR225516