

Product datasheet for **MR206959**

Gcm1 (NM_008103) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcm1 (NM_008103) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcm1
Synonyms:	Gcm-rs2; Gcm1-rs1; GCMA; glide
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206959 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGTGGACGACTTTGATCCTGAAGACAAAGAGATACTGAGCTGGGACATTAACGATGTGAACTGC
 CTCAGAACGTGAAAACGACTGACTGTTCCAGGAGTGGCCGACTCCTAGGTGAAACACATCTACAGCTC
 GGACGACAGGAACGCACAGCGCCACCTGAGCAGCTGGGCCATGCGCAACCAACAACCAACTCCCGG
 ATCCTCAAGAAGTCATGCCTGGGGTAGTGGTGTGCAGCAGGGACTGCTCCACAGAGGAAGGCCGAAGA
 TTTACCTGAGACCCGCCATCTGTGACAAAGCCAGACAGAAGCAGCAGAGGAAAAGCTGTCCCAACTGCAA
 TGGACCCCTGAAGCTTATCCCTGCCGAGGCCACGGCGGCTTCCCGGTACCAACTTCTGGAGGCACGAC
 GGACGCTTCATCTTTTCCAGTCAAAGGCGAGCATGATCATCCAGGCCGGAGACCAAGCTGGAAGCAG
 AGGCAAGAAGAGCCATGAAGAAAGTGCACATGGCATCTGCCTCCAACCTTACGGATGAAGGGGAGACC
 AGCAGCGAAGGCGCTTCCCTGCTGAAATCCCGAGTCAGGGAAGTTACCTTTAACTTGGTCATTCCAGGAA
 GCGTCCAACCTGCCCGGCACTTACAGCACACCTTAAATAGCTAACGCCCCCAAGCAGAACTCCCTGAATG
 ATTGCTTATCCTTCCCAAGAGTTATGATTTGGGGGAAGCACTGAGCTGGAAGATCCAACCTCCACCTT
 AGATTCATGAAGTTCTATGAGAGATGCAAATCTCCAGCAGTAGGATCTACGGCAGTGAAGAGCAGTTT
 CAGCCTCTGTCCCTGGGACGTATGGAGACTACGAAGACCTGCAAACCTTGGAAATAAAATGTTGCCTTAG
 GGAGAAATCCCTCCGATGACATCTACTATCCAGCCTATCCTCTGCCTGTGGCCAGCTGGCCCTACGACTA
 CTTTCCCTCCAGAACTTTGGAGCACTTACCCAGCAAGTTCATCAGAACCCCTGCAGCTCAACCA
 GGCTGTCTCCCTTGTGGTCCAATCCGGGAGGTGAGCCTTACGAAGAGAAAGTATCTGTGGATCTGAGCA
 GCTATGTGCCCTCCCTCACGTACCACCCACCTCAGCAGGATCCCTTCTGCTCACCTATGGCTCTCCTAC
 TCAGCAGCAACATGCACTGCCCGCAAGAGCAACAGGTGGGATTTTACGAAGAGATGGCATGCATGGGC
 TTAGATCACTTCAACAATGAGATGCTCCTAAACTTCTGTCTTTAAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206959 protein sequence
 Red=Cloning site Green=Tags(s)

MELDDFDPEDKEILSWDINDVKLPQNVKTTDFWQEWPDYVVKHIYSSDDRNAQRHLSSWAMRNTNNHNSR
 ILKKSCLGVVCSRDCSTEEGRKIYLRPAICDKARQKQRKSCPNCNGPLKLI PCRHGFGFPVTFWRHD
 GRFIFQSKGEHDHPRPETKLEAEARRAMKVVHMASASNSLRMKGRPAKALPAEIPSQGSLPLTWSFQE
 GVQLPGTYSTPLIANAPQQNSLNDCLSFPKSYDLGGSTELEDPTSTLDSMKFYERCKFSSSRIYGSEEQF
 QPPVPGTYGDYEDLQTNKNVALGRNPSDDIYYPAYPLPVASWPYDYFSPQNSLEHLPPQVPSEPPAAQP
 GCHPLWSNPGGEPYEEKVSVDLSSYVPSLTYHPPQQDPFLLTYGSPTQQQHALPGKSNRWFDEEMACMG
 LDHFNEMLLNFCSLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_008103

ORF Size: 1311 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).

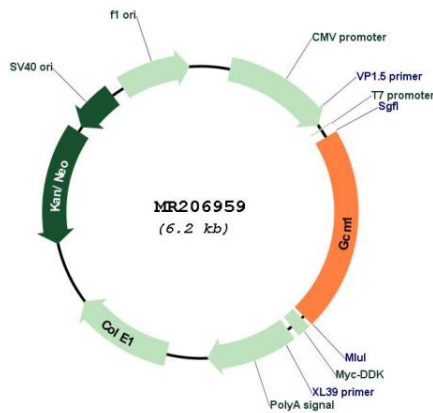
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

RefSeq: [NM_008103.3](#), [NP_032129.2](#)

RefSeq Size: 2034 bp
 RefSeq ORF: 1311 bp
 Locus ID: 14531
 UniProt ID: [P70348](#)
 Cytogenetics: 9 43.49 cM
 MW: 49.6 kDa

Gene Summary: Transcription factor that is necessary for placental development (PubMed:8962155). Involved in the control of expression of placental growth factor (PGF) and other placenta-specific genes. Binds to the trophoblast-specific element 2 (TSE2) of the aromatase gene enhancer. Binds to the SYDE1 promoter. Has a central role in mediating the differentiation of trophoblast cells along both the villous and extravillous pathways in placental development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206959