

## Product datasheet for **MG206959**

### Gcm1 (BC066866) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcm1 (BC066866) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcm1
Synonyms:	Gcm-rs2, glide, GCMa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206959 representing BC066866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGTGGACGACTTTGATCCTGAAGACAAAGAGATACTGAGCTGGGACATTAACGATGTGAACTGC  
CTCAGAACGTGAAAACGACTGACTGGTTCCAGGAGTGGCCGACTCCTACGTGAAACACATCTACAGCTC  
GGACGACAGGAACGCACAGCGCCACCTGAGCAGCTGGCCATGCGCAACACCAACAACCAACTCCCGG  
ATCCTCAAGAAGTCATGCCTGGGGTAGTGGTGTGCAGCAGGGACTGCTCCACAGAGGAAGGCCGAAGA  
TTTACCTGAGACCGCCATCTGTGACAAAGCCAGACAGAAGCAGCAGAGGAAAAGCTGTCCAACCTGCAA  
TGGACCCCTGAAGCTTATCCCTGCCGAGGCCACGGCGGCTTCCCGGTACCAACTTCTGGAGGCACGAC  
GGACGCTTCATCTTTTTCCAGTCCAAGGCGAGCATGATCATCCCAGGCCGGAGACCAAGCTGGAAGCAG  
AGGCAAGAAGAGCCATGAAGAAAGTGCACATGGCATCTGCCTCCAACCTTACGGATGAAGGGGAGACC  
AGCAGCGAAGGCGCTTCCCTGCTGAAATCCCGAGTCAGGGAAGTTACCTTTAACTTGGTCATTCCAGGAA  
GGCGTCCAACCTGCCCGCACTTACAGCACACCTTAAATAGCTAACGCCCCCAGCAGAATCCCTGAATG  
ATTGCTTATCCTTCCCAAGAGTTATGATTTGGGGGAAGCACTGAGCTGGAAGATCCAACCTCCACCTT  
AGATTCATGAAGTTCTATGAGAGATGCAAATTCAGCAGTAGGATCTACGGCAGTGAAGAGCAGTTT  
CAGCCTCTGTCCCTGGGACGTATGGAGACTACGAAGACCTGCAAACCTTGAATAAAAATGTTGCCTTAG  
GGAGAAATCCCTCCGATGACATCTACTATCCAGCCTATCCTCTGCCTGTGGCCAGCTGGCCCTACGACTA  
CTTTCCCTCCCAACTCTTTGGAGCACTTACCCAGCAAGTTCCATCAGAACCCTGCAGCTCAACCA  
GGCTGTATCCCTGTGGTCCAATCCGGGAGGTGAGCCTTACGAAGAGAAAGTATCTGTGGATCTGAGCA  
GCTATGTGCCCTCCCTCACGTACCACCCACCTCAGCAGGATCCCTTCTGCTCACCTATGGCTCTCTAC  
TCAGCAGCAACATGCACTGCCCGCAAGAGCAACAGGTGGGATTTTACGAAGAGATGGCATGCATGGCC  
TTAGATCACTTCAACAATGAGATGCTCCTAAACTTCTGTTCTTTAAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206959 representing BC066866  
 Red=Cloning site Green=Tags(s)

MELDDFDPEDKEILSWDINDVKLPQNVKTTDWFQEWPD SYVKHIYSSDDRNAQRHLSSWAMRNTNNHNSR  
 ILKKSCLGVVCSRDCSTEEGRKIYLRPAICDKARQKQRKSCPNCNGPLKLI PCRGHGGFPVTNFWRHD  
 GRFIF FQSKGEHDHPRPETKLEAEARRAMKKVHMASASNSLRMKGRPAAKALPAEIP SQGSLPL TWSFQE  
 GVQLPGTYSTPLIANAPQQNSLNDCL SFPKSYDLGGSTELEDPTSTLDSMKFYERCKFSSSRIYGSSEEQF  
 QPPVPGTYGDYEDLQTWNKNVALGRNPSDDIYYPAYPLPVASWPYDYFPSQNSLEHL PQQVPSEPPAAQP  
 GCHPLWSNPGGEPYEEKVSVDLSSYVPSLTYHPPQQDPFLLTYGSPTQQQHALPGKSNRWFDEEMACMG  
 LDHFNEMLLNFCSLR

TRTRPLE - GFP Tag - V

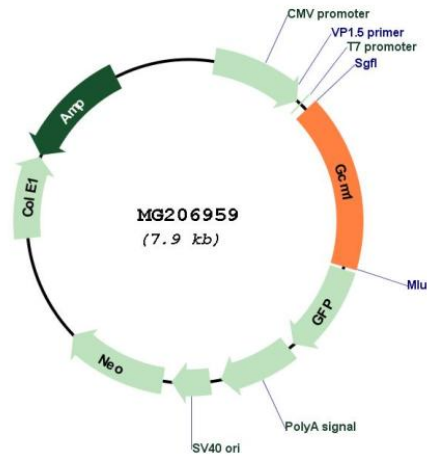
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

BC066866

<b>ORF Size:</b>	1310 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">BC066866</a> , <a href="#">AAH66866</a>
<b>RefSeq Size:</b>	2048 bp
<b>RefSeq ORF:</b>	1310 bp
<b>Locus ID:</b>	14531
<b>Cytogenetics:</b>	9 43.49 cM
<b>Gene Summary:</b>	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]