

## Product datasheet for **MG204065**

### Gem (NM\_010276) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gem (NM\_010276) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gem  
**Synonyms:** AV020497  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204065 representing NM\_010276  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTCTGAATAATGTCACCATGCGCCAAGGCACTGTGGGCATGCAGCCACAGCAGCGCTGGAGTATCC  
CTGCTGATGCCAGGCATCTGATGGTCCAGAAGGATCCCCACCCCTGCAACCTCCGAAACCGCCACTCTAC  
TGCTCCGGAAGAGCACTGCCGGCGGAGCTGGTCGTCGACTCCACAGACTCGGTCATCTCTTCTGAGTCT  
GGAAACACCTACTACCGAGTAGTCTTATAGGGGAGCAAGGAGTGGCAAGTCCACCTGGCCAACATCT  
TTGCAGGTGTGCATGACAGCATGGACAGCGACTGTGAGGTCTTGGGAGAAGATACATATGAGCGTACCCCT  
GGTCGTTGACGGAGAGAGTGCAACCATTATCCTCCTGGACATGTGGGAAAATAAGGGGGAGAACGAATGG  
CTCCATGACCACTGCATGCAGGTCGGGGATGCCTATCTGATCGTCTACTCTATCACAGACCGTGCAGCT  
TCGAGAAGGCATCTGAGCTGAGGATTCAGCTCCGCAGGGCCCGCAGACAGAAGACATTCCTATAATTTT  
GGTTGGCAACAAAAGCGACTTAGTGCGGTGTCGAGAAGTGTCTGTGTCAGAAGGGAGAGCTTGTGCTGTG  
GTGTTGCGACTGCAAAATTCATCGAGACCTCTGCGGCTGTGCAGCACAACGTGAAGGAACTGTTTGAGGGCA  
TTGTGCGACAGGTGCGCCTGCGCAGGGACAGCAAGGAGAAGAATGAGAGGAGGCTGGCCTACCAGAAGAG  
GCGGGAGAGCATTCCCAGGAAAGCCAGGCGCTTCTGGGCAAAATGTGGCAAAAACAACAAGAACATG  
GCTTTCAAGCTCAAGTCAAAATCCTGCCATGACCTGTCTGTGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG204065 representing NM\_010276  
 Red=Cloning site Green=Tags(s)

MTLNNVTMRQGTVGMQPQRWSIPADARHLMVQKDPHPCNLRNRHSTAPEEHCRWSWSSDSTDSVISES  
 GNTYYRVVLIQEQVGVKSTLANIFAGVHDSMDSCEVLGEDTYERTLVVDGESATIIILDMWENKGENEW  
 LHDHMQVGDAYLIVYSITDRASFEEKASELRIQLRRARQTEDIPIILVGNKSDLVRCREVSVSEGRACAV  
 VFDCKFIETSAAVQHNKELFEGIVRQVRLRRDSKEKNERRLAYQKRRESIPRKARRFWGKIVAKNNKNM  
 AFKLLKSKSCHDLSVL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

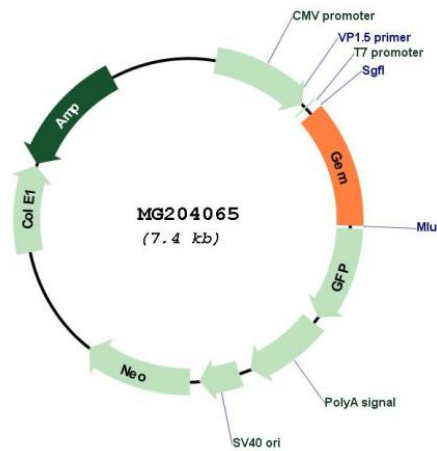
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_010276

**ORF Size:** 885 bp

<b>OTI Disclaimer:</b>	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>
<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="#">NM_010276.4</a>
<b>RefSeq Size:</b>	2008 bp
<b>RefSeq ORF:</b>	888 bp
<b>Locus ID:</b>	14579
<b>UniProt ID:</b>	<a href="#">P55041</a>
<b>Cytogenetics:</b>	4 5.34 cM
<b>Gene Summary:</b>	Could be a regulatory protein, possibly participating in receptor-mediated signal transduction at the plasma membrane. Has guanine nucleotide-binding activity but undetectable intrinsic GTPase activity.[UniProtKB/Swiss-Prot Function]