

## Product datasheet for **MG218003**

### Gpr101 (NM\_001033360) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr101 (NM_001033360) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpr101
Synonyms:	Gm365; GPCR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218003 representing NM\_001033360  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCACCAGCTGCACTAACAGTACTCAAGAGAACAATGGCAGTCGAGTGTGCCTCCCCCTCTCCAAGA  
 TGCTATTAGTGTAGCTCACGGCATCATCCGCTCAGTTGTGCTGCTCGTATCCTTGGTGTAGCCTTCT  
 GGGTAACGTAGTGTGGTTATGTATTGCACCGTAAGCCAACTTGTGTCAGGTGACCAACCGGTTCCATA  
 TTTAACCTGCTTGTCACTGACCTGCTGCAGTTGCTCTCGTGGCCCCCTGGGTGGTGTCCACTGCCATTC  
 CTTTCTTCTGGCCTCTCAACATCCACTTCTGCACTGCCCTGGTTAGCCTCACCCACTTATTTGCCTTTGC  
 TAGTGTCAATACCATTGTGGTGGTGTGAGTTGATCGTTACCTGACCATCATCCACCCTCTTCTACCCA  
 TCCAAGATGACCAACCGACGTAGTTATATTCTCCTCTATGGCACCTGGATTGCAGCCTTCTGCAGAGCA  
 CACCTCCACTCTATGGCTGGGGCCAGCTACTTTTGTATGACCGTAATGCCTTCTGTTCCATGATCTGGGG  
 AGCCAGCCCTGCCTATACGGTTGTGAGTGTGATCCTTCTCGTATTCCACTGGGTGTTATGATTGCC  
 TGCTATTCTGTGGTGTTCGGTGCAGCCCGAGGAGCAAGCTCTCCTGTATAAGGCCAAGAGCCACCGCT  
 TGGAGGTGAGAGTCGAGGACTCTGTGGTGCATGAGAATGAAGAGGGAGCAAGAAGAGGGATGAGTTCCA  
 GGACAAGAATGAGTTCAGGGCCAAGATGGAGGTGGTCAAGGCCGAGGCTAAGGGAAGCAGCTCCATGGAA  
 GAGAGTCCCATGGTAGCCGAGGGCAGCAGCCAGAAGACCGGAAAAGGAAGCCTGGATTTCACTGTCAGGTA  
 TCATGGAGGGCAAGGACAGTGCAGAGTGCAGTAAATGGCAGCATGGAGGGGCTGGAAGTCACTGAATT  
 TCAGGCTAGCAGCGCAAAGGCAGACACCGCCGCATAGATGCCAATCAGTGAACATTGACGTGGGGCAA  
 GATGATGTAGAGTTTGGCATGGATGAAATTCATTTCAACGACGATGTTGAGGCGATGCCATTCCAGAGA  
 GCAGTCCACCCAGTCGTGAAACAGCAGCAGCCACCCACTTTGCCTCCATGCTATGAGTCAAAGCTGC  
 TAGAGTGATCTTCGTATCATTCCACTTATGTGCTATCTCTGGGGCCCTACTGCTTTCTAGCAGTGTG  
 GCTGTGTGGTGGATATCGATACCAGGGTACCCAGTGGGTGATCACCATAATAATCTGGCTTTTTTTCC  
 TGCAGTGTTCATCCACCATATGTCTATGGCTATATGCACAAGAGCATCAAGAAGGAAATCCAGGAGGT  
 ACTGAAGAAGTTAATCTGTAAGAAAAGCCCCCTGTAGAAGATAGCCACCCTGACCTTTCATGAAACGGAA  
 GCTGGTACAGAGGGAGGTATTGAAGGCAAGGCTGTCCCCTCCCATGATTCAGCTACTTCACCT

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG218003 representing NM\_001033360  
 Red=Cloning site Green=Tags(s)

MPPSCTNSTQENNGSRVCLPLSKMPIVAHGIIRSVLLVILGVAFLGNVVLGYVLRKPNLLQVTNRFI  
 FNLLVTDLLQVALVAPWVSTAIPIFFWPLNIHFCTALVSLTHLFAFASVNTIVVSVDRYLTIIHPLSYP  
 SKMNTNRRSYILLYGTWIAAFLQSTPPLYGWHATFDDRNACSMIWGASPAYTVVSVVFLVIPLGVMI  
 CYSVVFGAARRQALLYKAKSHRLEVRVEDSVHENEAGAKRDEFQDKNEFQGGDGGGQAEAKGSSSME  
 ESPMVAEGSSQKTGKSLDFGAGIMEGKDSDEVSNGSMGLEVITTEFQASSAKADTGRIDANQCNDVGE  
 DDVEFGMDEIHFNDVEAMRIPESPSPSRNSTSDPPLPPCYECKAARVIFVIIISTYVLSLGPYCFVLV  
 AVWVDIDTRVPQWVITIIIIWLFQCCIHYPVYGYMHKSIKKEIQEVLLKLIKKSPPVEDSHPLHETE  
 AGTEGGIEGKAVPSHDSATSP

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001033360

ORF Size: 1533 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](#)

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

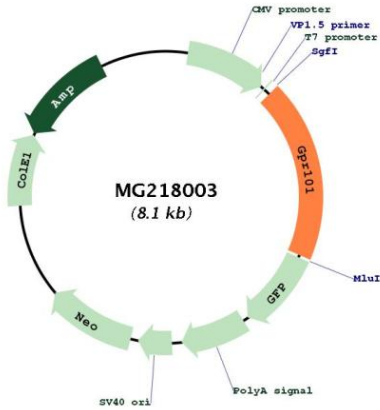
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001033360.3](#), [NP\\_001028532.1](#)

RefSeq Size: 5425 bp  
 RefSeq ORF: 1536 bp  
 Locus ID: 245424  
 UniProt ID: [Q80T62](#)  
 Cytogenetics: X A6  
 Gene Summary: Orphan receptor.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG218003