

Product datasheet for **MR218003**

Gpr101 (NM_001033360) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr101 (NM_001033360) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr101
Synonyms:	Gm365; GPCR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218003 representing NM_001033360
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCAGCTGCACTAACAGTACTCAAGAGAACAATGGCAGTCGAGTGTGCCTCCCCCTCTCCAAGA
 TGCTATTAGTGTAGCTCACGGCATCATCCGCTCAGTTGTGCTGCTCGTCATCCTTGGTGTAGCCTTTCT
 GGGTAACGTAGTGTGGTTATGTATTGCACCGTAAGCCAAACTTGTGCAGGTGACCAACCGGTTCCATA
 TTTAACCTGCTTGTCACTGACCTGCTGCAGTTGCTCTCGTGGCCCCCTGGGTGGTGTCCACTGCCATTC
 CTTTCTTCTGGCCTCTCAACATCCACTTCTGCACTGCCCTGGTTAGCCTCACCCACTTATTTGCCTTTGC
 TAGTGTCAATACCATTGTGGTGGTGTGAGTTGATCGTTACCTGACCATCATCCACCCTCTTCTACCCA
 TCCAAGATGACCAACCGACGTAGTTATATTCTCCTCTATGGCACCTGGATTGCAGCCTTCTGCAGAGCA
 CACCTCCACTCTATGGCTGGGGCCAGCTACTTTTGTGACCGTAATGCCTTCTGTTCCATGATCTGGGG
 AGCCAGCCCTGCCTATACGGTTGTGAGTGTGGTATCCTTCTCGTATTCCACTGGGTGTTATGATTGCC
 TGCATTCTGTGGTGTTCGGTGCAGCCCGAGGAGCAAGCTCTCCTGTATAAGGCCAAGAGCCACCGCT
 TGGAGGTGAGAGTCGAGGACTCTGTGGTGCATGAGAATGAAGAGGGAGCAAGAAGAGGGGATGAGTTCCA
 GGACAAGAATGAGTTCAGGGCCAAGATGGAGGTGGTCAGGCCGAGGCTAAGGGAAGCAGCTCCATGGAA
 GAGAGTCCCATGGTAGCCGAGGGCAGCAGCCAGAAGACCGGAAAAGGAAGCCTGGATTTCACTGCAGGTA
 TCATGGAGGGCAAGGACAGTGCAGAGTGCAGTAAATGGCAGCATGGAGGGGCTGGAAGTCATCACTGAATT
 TCAGGCTAGCAGCGCAAAGGCAGACACCGGCCCATAGATGCCAATCAGTGCAACATTGACGTGGGGCAA
 GATGATGTAGAGTTTGGCATGGATGAAATTCATTTCAACGACGATGTTGAGGCGATGCCATTCCAGAGA
 GCAGTCCACCCAGTCGTGAAACAGCACCCAGCCACCTTTGCCTCCATGCTATGAGTGCAAAGCTGC
 TAGAGTGATCTTCGTATCATTTCACCTTATGTGCTATCTCTGGGGCCCTACTGCTTTCTAGCAGTGTG
 GCTGTGTGGTGGATATCGATACCAGGGTACCCAGTGGGTGATCACCATAATAATCTGGCTTTTTTTCC
 TGCAGTGTTCATCCACCATATGTCTATGGCTATATGCACAAGAGCATCAAGAAGGAAATCCAGGAGGT
 ACTGAAGAAGTTAATCTGTAAGAAAAGCCCCCTGTAGAAGATAGCCACCCTGACCTTCATGAAACGGAA
 GCTGGTACAGAGGGAGGTATTGAAGGCAAGGCTGTCCCCTCCCATGATTCAGCTACTTCACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218003 representing NM_001033360
 Red=Cloning site Green=Tags(s)

MPPSCTNSTQENNGSRVCLPLSKMPIVAHGIIRSVVLLVILGVAFLGNVVLGYVLRKPNLLQVTNRFI
 FNLLVTDLLQVALVAPWVSTAIPFFWPLNIHFCTALVSLTHLFAFASVNTIVVSVDRYLIIHPLSYP
 SKMTRRSYILLYGTWIAAFLQSTPPLYGWHATFDDRNAFCSMIWGASPAYTVVSVVSFLVIPLGVMIA
 CYSVVFGAARRQALLYKAKSHREVRVEDSVVHENEAGAKRDEFQDKNEFQGGQAEAKGSSSME
 ESPMVAEGSSQKTGKSLDF SAGIMEGKDSDEVSNGSMGLEVITFEFQASSAKADTRIDANQCNIDVGE
 DDVEFGMDEIHFNDVEAMRIPESPSPSRNSTSDPPLPPCYECKAARVIFVIIISTYVLSLGPYCF LAVL
 AVWVDIDTRVPQWVITIIIIWLFFLQCCIHPYVYGYMHKSIKKEIQEVLKLIKCKSPVEDSHPLHETE
 AGTEGGIEGKAVPSHDSATSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_b06.zip

Restriction Sites:

Sgfl-Mlul

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 or by calling 301.340.3188 option 3 for pricing and delivery.

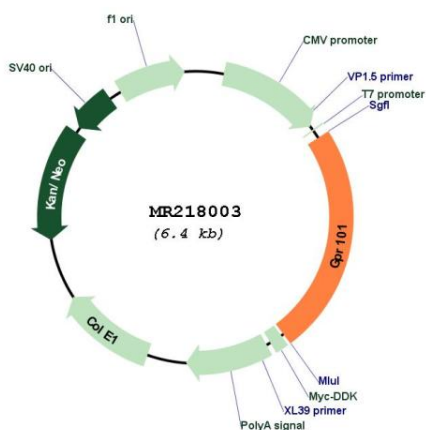
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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
 MW: 56.7 kDa
 Gene Summary: Orphan receptor.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR218003