

Product datasheet for **MG207767**

Gcgr (NM_008101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcgr (NM_008101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcgr
Synonyms:	GR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207767 representing NM_008101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCACCCAGCTCCACTGTCCACCTGCTGCTGCTGTTGGTGTGTCATGTCTGCCAGAGG
 CACCCTCTGCCCAGGTAATGGACTTTTTGTTTGAAGAGTGAAGCTCTATAGTGACCAATGCCACCACAA
 CCTAAGCCTGCTGCCCCACCTACTGAGCTGGTCTGTAACAGAACCTTCGACAAGTACTCCTGCTGGCCT
 GACACCCCTCCCAACACCACTGCCAACATTTCTGCCCTGGTACCTACCTTGGTACCACAAAGTGCAGC
 ACCGCCTAGTGTCAAGAGGTGTGGGCCGATGGGCAGTGGGTTTCGAGGGCCACGGGGCAGCCGTGGCG
 CAACGCCTCCCAATGTCAGTTGGATGATGAAGAGATCGAGGTCCAGAAGGGGGTGGCCAAGATGTATAGC
 AGCCAGCAGGTGATGTACACCGTGGCTACAGTCTGTCCCTGGGGCCTTGCTCCTTGCCTGGTATCC
 TGCTGGGCCTCAGGAAGCTGCACTGCACCCGAACTACATCCATGGGAACCTGTTTGCCTCTTTGTGCT
 CAAGGCTGGCTCTGTGTTGGTCACTGATTGGCTGCTGAAGACACGGTACAGCCAGAAGATTGGCGATGAC
 CTCAGTGTGAGCGTCTGGCTCAGTGACGGGGCGATGGCCGGCTGCAGAGTGGCCACAGTATCATGCACT
 ACGGCATCATAGCCAACCTATTGCTGTTGCTGGTGTAGAGGGCGTGTACCTGTACAGCCTGCTGAGCCTTG
 CACCTTCTCTGAGAGGAGCTTCTTTCCCTCTACCTGGGCATTGGCTGGGGTGGCCCTGCTGTTTGTG
 ATCCCCTGGTGGTGGTCAAGTGTCTGTTTGAAGTGTTCAGTGTGGACCAGCAATGACAACATGGGAT
 TCTGGTGGATCTGCGTATTCTGTCTTCTGGCCTTACTGATCAATTTTTTTCATCTTTGTCCACATCAT
 TCACCTTCTTGTGGCCAAGCTGCGTGGCCATCAGATGCACTATGCTGACTATAAGTTCGGCTGGCCAGG
 TCCACGCTGACCTCATCCCTCTGCTGGGGTCCACGAGGTGGTCTTTCCTTTGTGACTGACGAGCATG
 CCCAAGGCACCTGCGCTCCACCAAGCTTTTTTTGACCTGTTCCCTCAGCTCTTCCAGGATCTGCTGGT
 GGCTGTTCTCTACTGTTTCCCTCAACAAGGAGGTGCAGGCAGAGCTGATGCGGCGTTGGAGGCAATGGCAA
 GAAGGCAAGCTTTCAGGAGGAAAGTTGGCCAGCAGCCATGGCAGCCATGGCCCCAGCAGGGCCTT
 GTCATGGTATCCCTGTGAGAACTTCACTTATGAGTGCAGGCAGCAGCAGTGGGACTGGCTGTGTGCC
 CTCTATGGAGACCTCGCTGGCCAGTAGTCTCCCAAGGTTGGTGTACAGCCCCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207767 representing NM_008101
 Red=Cloning site Green=Tags(s)

MPLTQLHCPHLLLLLLVLSCLPEAPSAQVMDFLFEKWLYSDQCHHNSLLPPPTTELVCNRTFDKYSCWP
 DTPPNTTANISCPWYLPWYHKVQHRLVFKRCGPDGQWVRGPRGQPWRNASQCQLDDEEIEVQKGVAKMYS
 SQQVMTYVGYSLSLGALLLALVILLGLRKLHCTRNYIHGNLFAFVFLKAGSVLVIDWLLKTRYSQKIGDD
 LSVSVWLSDGAMAGCRVATVIMQYGIIANYCWLLVEGVLYSLLSLATFSERSFFSLYLIGWGAPLLFV
 IPWVVVKCLFENVQCWTSNDNMGFWWILRIPVFLALLINFFIFVHIIHLLVAKLRAHQMHYADYKFLRLAR
 STLTLIPLLGVHEVVFVAFVTDEHAQGTLRSTKLFDFLSSFQGLLVAVLYCFLNKEVQAEQMRRWRQWQ
 EGKALQEERLASSHSHMAPAGPCHGDPCEKLQLMSAGSSSGTGCVPSMETSLASSLPRLADSPT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008101

ORF Size: 1455 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.

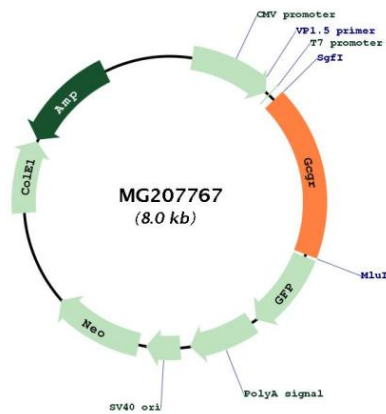
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008101.2](#)
 RefSeq Size: 1944 bp
 RefSeq ORF: 1458 bp
 Locus ID: 14527
 UniProt ID: [Q61606](#)
 Cytogenetics: 11 E2

Gene Summary: G-protein coupled receptor for glucagon that plays a central role in the regulation of blood glucose levels and glucose homeostasis. Regulates the rate of hepatic glucose production by promoting glycogen hydrolysis and gluconeogenesis. Plays an important role in mediating the responses to fasting. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Promotes activation of adenylate cyclase. Besides, plays a role in signaling via a phosphatidylinositol-calcium second messenger system. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207767