

## Product datasheet for **RG211179**

### Glucagon Receptor (GCGR) (NM\_000160) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glucagon Receptor (GCGR) (NM_000160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glucagon Receptor
Synonyms:	GGR; GL-R; MVAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211179 representing NM\_000160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCCCCTGCCAGCCACAGCAGCCCTGCTGCTGTTGCTGCTGCTGCTGGCCTGCCAGCCACAGGTCC  
 CCTCCGCTCAGGTGATGGAATTCCTGTTTGAGAAGTGGAAGCTCTACGGTGACCAGTGTCACCACAACCT  
 GAGCCTGCTGCCCTCCACGGAGCTGGTGTGCAACAGAACCTTCGACAAGTATTCCTGCTGGCCGGAC  
 ACCCCCGCAATACCACGGCCAACATCTCTGCCCTGGTACCTGCCTTGGCACCACAAAGTGCAACACC  
 GCTTCGTGTTCAAGAGATGCGGGCCGACGGTCACTGGGTGCGTGGACCCGGGGCAGCCTTGGCGTGA  
 TGCCTCCAGTGCAGATGGATGGCAGGAGATTGAGTCCAGAAGGAGGTGGCCAAGATGTACAGCAGC  
 TTCAGGTGATGTACACAGTGGCTACAGCCTGTCCCTGGGGCCCTGCTCCTCGCCTTGGCCATCCTGG  
 GGGCCTCAGCAAGCTGCACTGCACCCGAATGCCATCCACGGAATCTGTTTGGTCTTCGTGCTGAA  
 AGCCAGTCCGTGCTGGTCATTGATGGGCTGCTCAGGACCGCTACAGCCAGAAAATTGGCGACGACCTC  
 AGTGTCAGCACCTGGCTCAGTATGGAGCGGTGGCTGGCTGCCGTGGCCGCGGTTCATGCAATATG  
 GCATCGTGGCCAACACTACTGCTGGCTGCTGGTGGAGGGCCTGTACCTGCACAACCTGCTGGCCTGGCCAC  
 CCTCCCGAGAGGAGCTTCTTACGCCTCTACCTGGGCATCGGCTGGGTGCCCCCATGCTGTTTCGTGCTC  
 CCCTGGGAGTGGTCAAGTGTCTGTTTCGAGAACGTCCAGTGTGGACCAGCAATGACAACATGGGCTTCT  
 GGTGGATCCTGCGGTTCCCGCTTCTTGGCCATCCTGATCAACTTCTTCATCTTCGTCCGCATCGTTCA  
 GCTGCTCGTGGCAAGCTGCGGGCAGCGCAGATGCACCACACAGACTACAAGTCCGGCTGGCCAAGTCC  
 ACGCTGACCCTCATCCCTCTGCTGGGCTCCACGAAGTGGTCTTCGCCTTCGTGACGGACGAGCAGCCCC  
 AGGGCACCTCGCTCCGCCAAGCTCTTCTCGACCTTCTCCTCAGCTCCTTCCAGGGCCTGCTGGTGGC  
 TGTCTCTACTGCTTCCCAACAAGGAGGTGCAGTCCGAGCTGCGGCGGGGTTGGCACCCGCTGGCGCCTG  
 GGCAAAAGTGTATGGGAGGAGCGGAACACCAGCAACCACAGGGCCTCATCTTCGCCCGGCCACGGCCCTC  
 CCAGCAAGGAGTGCAGTTTGGGAGGGTGGTGGCAGCCAGGATTCATCTGCGGAGACCCCTTGGCTGG  
 TGGCCTCCCTAGATTGGCTGAGAGCCCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211179 representing NM\_000160  
 Red=Cloning site Green=Tags(s)

MPPCQPQRPLLLLLLLACQPQVPSAQVMDFLFEKWKLYGDQCHHNL SLLPPTTELVCNRTFDKYSCWPD  
 TPANTTANISCPWYLPWHHKVQHRFVFKRCGPDGQWVRGPRGQPWRDASQCQMDGEEIEVQKEVAKMYSS  
 FQVMTYVGYSLSL GALLLALAILGGLSKLHCTRNAIHANL FASFVLKASSVLVIDGLLRTRYSQKIGDDL  
 SVSTWLSDGAVAGCRVAAVFMQYGI VANYCWLLVEGLYLNLLGLATLPERSFFSLYLGIWGWAPMLFVV  
 PWAVVKCLFENVQCWTSNDNMGFWWILRFPVFLAILINFFIFVRIVQLLVAKLRARQMHTDYKFR LAKS  
 TLTLIPLLGVHEVVFAFVTDEHAQGT LRS AKLFFDLFLSSFQGLLVAVLYCFLNKEVQSELRRRWRWRWRL  
 GKVLWEERNTSNHRASSSPGHGPPSKELQFGRGGSDSSAETPLAGGLPRLAESPF

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000160

**ORF Size:** 1431 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](#)

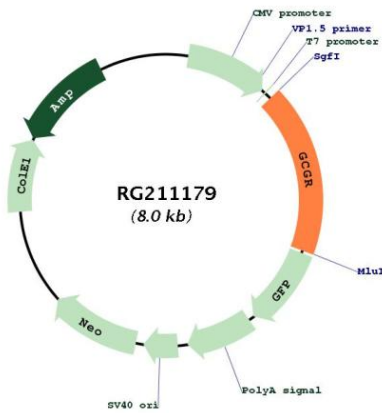
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_000160.5](#)  
**RefSeq Size:** 2034 bp  
**RefSeq ORF:** 1434 bp  
**Locus ID:** 2642  
**UniProt ID:** [P47871](#)  
**Cytogenetics:** 17q25.3  
**Protein Families:** Druggable Genome, GPCR, Transmembrane  
**Protein Pathways:** Neuroactive ligand-receptor interaction  
**Gene Summary:** The protein encoded by this gene is a glucagon receptor that is important in controlling blood glucose levels. Defects in this gene are a cause of non-insulin-dependent diabetes mellitus (NIDDM).[provided by RefSeq, Jan 2010]

## Product images:



Circular map for RG211179