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# Product datasheet for RG210811

## Gastric Inhibitory Polypeptide Receptor (GIPR) (NM_000164) Human Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Gastric Inhibitory Polypeptide Receptor (GIPR) (NM_000164) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Gastric Inhibitory Polypeptide Receptor |
| **Synonyms:** | PGQTL2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>RG210811 representing NM_000164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTACCTCTCCGATCCTGCAGCTGCTGCTGCGGCTCTCACTGTGCGGGCTGCTGCTCCAGAGGGCGG
AGACAGGCTCTAAGGGGCAGACGGCGGGGGAGCTGTACCAGCGCTGGGAACGGTACCGCAGGGAGTGCCA
GGAGACCTTGGCAGCCGCGGAACCGCCTTCAGGCCTCGCCTGTAACGGGTCCTTCGATATGTACGTCTGC
TGGGACTATGCTGCACCCAATGCCACTGCCCGTGCGTCCTGCCCCTGGTACCTGCCCTGGCACCACCATG
TGGCTGCAGGTTTCGTCCTCCGCCAGTGTGGCAGTGATGGCCAATGGGGACTTTGGAGAGACCATACACA
ATGTGAGAACCCAGAGAAGAATGAGGCCTTTCTGGACCAAAGGCTCATCTTGGAGCGGTTGCAGGTCATG
TACACTGTCGGCTACTCCCTGTCTCTCGCCACACTGCTGCTAGCCCTGCTCATCTTGAGTTTGTTCAGGC
GGCTACATTGCACTAGAAACTATATCCACATCAACCTGTTCACGTCTTTCATGCTGCGAGCTGCGGCCAT
TCTCAGCCGAGACCGTCTGCTACCTCGACCTGGCCCCTACCTTGGGGACCAGGCCCTTGCGCTGTGGAAC
CAGGCCCTCGCTGCCTGCCGCACGGCCCAGATCGTGACCCAGTACTGCGTGGGTGCCAACTACACGTGGC
TGCTGGTGGAGGGCGTCTACCTGCACAGTCTCCTGGTGCTCGTGGGAGGCTCCGAGGAGGGCCACTTCCG
CTACTACCTGCTCCTCGGCTGGGGGGCCCCCGCGCTTTTCGTCATTCCCTGGGTGATCGTCAGGTACCTG
TACGAGAACACGCAGTGCTGGGAGCGCAACGAAGTCAAGGCCATTTGGTGGATTATACGGACCCCCATCC
TCATGACCATCTTGATTAATTTCCTCATTTTTATCCGCATTCTTGGCATTCTCCTGTCCAAGCTGAGGAC
ACGGCAAATGCGCTGCCGGGATTACCGGCTGAGGCTGGCTCGCTCCACGCTGACGCTGGTGCCCCTGCTG
GGTGTCCACGAGGTGGTGTTTGCTCCCGTGACAGAGGAACAGGCCCGGGGCGCCCTGCGCTTCGCCAAGC
TCGGCTTTGAGATCTTCCTCAGCTCCTTCCAGGGCTTCCTGGTCAGCGTCCTCTACTGCTTCATCAACAA
GGAGGTGCAGTCGGAGATCCGCCGTGGCTGGCACCACTGCCGCCTGCGCCGCAGCCTGGGCGAGGAGCAA
CGCCAGCTCCCGGAGCGCGCCTTCCGGGCCCTGCCCTCCGGCTCCGGCCCGGGCGAGGTCCCCACCAGCC
GCGGCTTGTCCTCGGGGACCCTCCCAGGGCCTGGGAATGAGGCCAGCCGGGAGTTGGAAAGTTACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

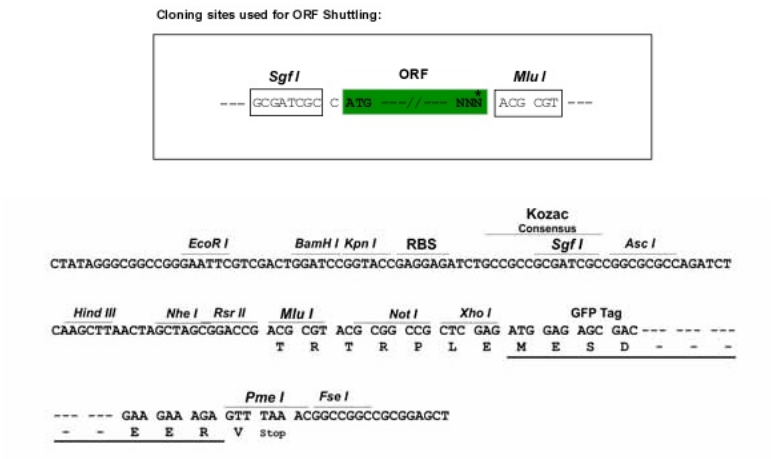
>RG210811 representing NM_000164
Red=Cloning site Green=Tags(s)

MTTSPILQLLLRLSLCGLLLQRAETGSKGQTAGELYQRWERYRRECQETLAAAEPPSGLACNGSFDMYVC
WDYAAPNATARASCPWYLPWHHHVAAGFVLRQCGSDGQWGLWRDHTQCENPEKNEAFLDQRLILERLQVM
YTVGYSLSLATLLLALLILSLFRRLHCTRNYIHINLFTSFMLRAAAILSRDRLLPRPGPYLGDQALALWN
QALAACRTAQIVTQYCVGANYTWLLVEGVYLHSLLVLVGGSEEGHFRYYLLLGWGAPALFVIPWVIVRYL
YENTQCWERNEVKAIWWIIRTPILMTILINFLIFIRILGILLSKLRTRQMRCRDYRLRLARSTLTLVPLL
GVHEVVFAPVTEEQARGALRFAKLGFEIFLSSFQGFLVSVLYCFINKEVQSEIRRGWHHCRLRRSLGEEQ
RQLPERAFRALPSGSGPGEVPTSRGLSSGTLPGPGNEASRELESYC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



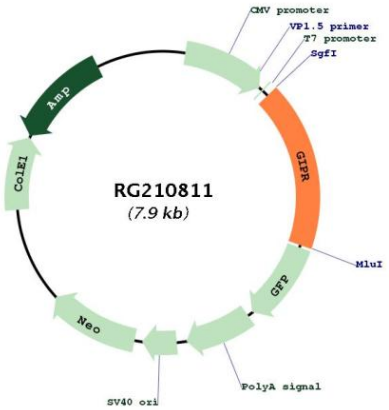

| | |
|---|---|
| **ACCN:** | NM_000164 |
| **ORF Size:** | 1398 bp |
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_000164.4 |
| **RefSeq Size:** | 2024 bp |
| **RefSeq ORF:** | 1401 bp |
| **Locus ID:** | 2696 |
| **UniProt ID:** | P48546 |
| **Cytogenetics:** | 19q13.32 |

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** This gene encodes a G-protein coupled receptor for gastric inhibitory polypeptide (GIP), which was originally identified as an activity in gut extracts that inhibited gastric acid secretion and gastrin release, but subsequently was demonstrated to stimulate insulin release in the presence of elevated glucose. Mice lacking this gene exhibit higher blood glucose levels with impaired initial insulin response after oral glucose load. Defect in this gene thus may contribute to the pathogenesis of diabetes. [provided by RefSeq, Oct 2011]

## Product images:




Circular map for RG210811