

## Product datasheet for **RC210811**

### Gastric Inhibitory Polypeptide Receptor (GIPR) (NM\_000164) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gastric Inhibitory Polypeptide Receptor (GIPR) (NM_000164) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gastric Inhibitory Polypeptide Receptor
Synonyms:	PGQTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC210811 representing NM\_000164  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTACCTCTCCGATCCTGCAGCTGCTGCTGCGGCTCTCACTGTGCGGGCTGCTGCTCCAGAGGGCGG  
 AGACAGGCTCTAAGGGGCAGACGGCGGGGAGCTGTACCAGCGCTGGGAACGGTACCGCAGGGAGTGCCA  
 GGAGACCTTGGCAGCCGCGGAACCGCTTCAGGCCTCGCCTGTAACGGGTCTTCGATATGTACGTCCTGC  
 TGGGACTATGCTGCACCAATGCCACTGCCCTGCGTCTGCCCTGGTACCTGCCCTGGCACCACCATG  
 TGGCTGCAGGTTTCGCTCCGCCAGTGTGGCAGTGATGGCCAATGGGGACTTTGGAGAGACCATAACACA  
 ATGTGAGAACCCAGAGAAGAATGAGGCCTTTCTGGACAAAGGCTCATCTTGAGCGGTTGCAGGTCATG  
 TACTGTGCGCTACTCCCTGTCTCTGCCCACTGCTGCTAGCCCTGCTCATCTTGAGTTTGTTCAGGC  
 GGCTACATTGACTAGAACTATATCCACATCAACCTGTTACGCTTTTCATGCTGCGAGCTGCGGCCAT  
 TCTCAGCCGAGACCGTCTGCTACCTCGACTGGCCCTACCTTGGGGACCAGGCCCTTGCCTGTGGAAC  
 CAGGCCCTCGCTGCCGCACGGCCAGATCGTGACCCAGTACTGCGTGGGTGCCAACTACACGTGGC  
 TGCTGGTGGAGGGCGTCTACCTGCACAGTCTCCTGGTGTCTGTTGGAGGCTCCGAGGAGGGCCACTTCCG  
 CTACTACCTGCTCCTCGGCTGGGGGCCCCCGCCTTTTCGTCATTCCCTGGGTGATCGTCAGGTACCTG  
 TACGAGAACACGCAGTGTGGGAGCGCAACGAAGTCAAGGCCATTTGGTGGATTATACGGACCCCATCC  
 TCATGACCATCTTGATTAATTTCTCATTTTTATCCGATTCTTGGCATTCTCCTGTCCAAGCTGAGGAC  
 ACGGCAATGCGCTGCCGGGATTACCGGCTGAGGCTGGCTCGTCCACGCTGACGCTGGTGGCCCTGCTG  
 GGTGTCCACGAGGTGGTGTTCGCTCCCGTGACAGAGGAACAGGCCCGGGGCGCCCTGCGCTTCCCAAGC  
 TCGGCTTTGAGATCTTCTCAGCTCTTCCAGGGCTTCCGTCAGCGTCTCTACTGTCATCAACAA  
 GGAGGTGCAGTCGGAGATCCGCCGTGGCTGGCACCACTGCCCGCTGCGCCGCAGCCTGGGCGAGGAGCAA  
 CGCCAGCTCCCGAGCGGCCTTCCGGGCCCTGCCCTCCGGCTCCGGCCCGGGCGAGGTCCCCACCAGCC  
 GCGGCTTGTCTCGGGACCTCCAGGCCTGGGAATGAGGCCAGCCGGGAGTTGGAAAGTTACTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC210811 representing NM\_000164  
 Red=Cloning site Green=Tags(s)

MTTSPILQLLLRSLCGLLLQRAETGSKGQTAGELYQRWERYRRECQETLAAAEPSPGLACNGSFDMYVC  
 WDYAAPNATARASCPWYLPWHHHVAAGFVLRQCGSDGQWGLWRDHTQCENPEKNEAFLDQRLILERLQVM  
 YTVGYSLSLATLLALLILSLFRRLHCTRNYIHINLFTSFMLRAAAILSRDRLLPRPGPYLGDQALALWN  
 QALAACTAQIVTQYCVGANYYTLLVEGVYLSLHLLVVGSEEGHFRYLLLLGWGAPALFVIPWVIVRYL  
 YENTQCWERNEVKAIWWIIRTPILMTILINFLIFIRILGILLSKLRTRQMRCDYRLRLARSTLTVPLL  
 GVHEVVFAPVTEEQARGALRFKLGFEIFLSSFQGLVSVLYCFINKEVQSEIRRGWHHCRLRRSLGEEQ  
 RQLPERAFRALPSGSGPEVPTSRQLSSGTLPGPGNEASRELESYC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2553\\_e09.zip](https://cdn.origene.com/chromatograms/mg2553_e09.zip)

**Restriction Sites:**

Sgfl-Mlul

**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.
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\\_000164.4](#)

**RefSeq Size:** 2024 bp

**RefSeq ORF:** 1401 bp

**Locus ID:** 2696

**UniProt ID:** [P48546](#)

**Cytogenetics:** 19q13.32

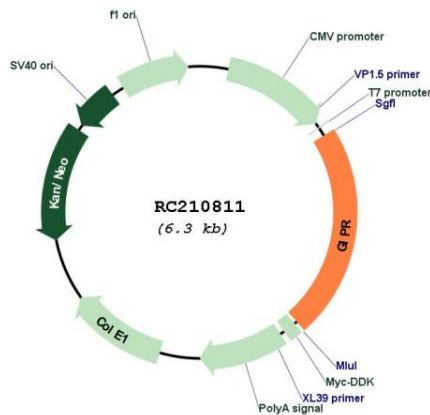
**Protein Families:** Druggable Genome, GPCR, Transmembrane

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

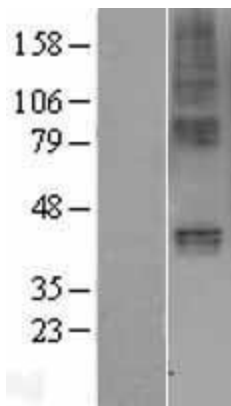
**MW:** 53 kDa

**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 RC210811



Western blot validation of overexpression lysate (Cat# [LY400060]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210811 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).