

Product datasheet for **SC110906**

Gastric Inhibitory Polypeptide Receptor (GIPR) (NM_000164) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gastric Inhibitory Polypeptide Receptor (GIPR) (NM_000164) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gastric Inhibitory Polypeptide Receptor
Synonyms:	PGQTL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000164, RT-PCR generated
ATGACTACCTCTCCGATCCTGCAGCTGCTGCTGCGGCTCTCACTGTGCGGGCTGCTGCTC
CAGAGGGCGGAGACAGGCTCTAAGGGGCAGACGGCGGGGGAGTGTACCAGCGCTGGGAA
CGGTACCGCAGGGAGTGCCAGGAGACCTTGGCAGCCGCGGAACCGCCTTCAGGCCTCGCC
TGTAACGGGTCCCTTCGATATGTACGTCTGCTGGGACTATGCTGCACCCAATGCCACTGCC
CGTGCGTCTGCCCTGGTACCTGCCCTGGCACCACCATGTGGCTGCAGGTTTCGTCTC
CGCCAGTGTGGCAGTGATGGCCAATGGGGACTTTGGAGAGACCATACACAATGTGAGAAC
CCAGAGAAGAATGAGGCCTTTCTGGACCAAGGCTCATCTTGGAGCGGTTGCAGGTCATG
TACTGTGCGCTACTCCCTGTCTCTGCCACACTGCTGTAGCCCTGCTCATCTTGAGT
TTGTTTCAGGCGGCTACATTGCACTAGAACTATATCCACATCAACCTGTTACAGTCTTTC
ATGCTGCGAGCTGCGGCCATTCTCAGCCGAGACCGTCTGCTACCTCGACCTGGCCCTAC
CTTGGGGACCAGGCCCTTTCGCTGTGGAACCAGGCCCTCGCTGCCTGCCGCACGGCCAG
ATCGTGACCCAGTACTGCGTGGGTGCCAACTACACGTGGCTGCTGGTGGAGGGGCTCTAC
CTGCACAGTCTCCTGGTCTCGTGGGAGGCTCCGACGAGGGCCACTTCCGCTACTACCTG
CTCCTCGGCTGGGGGGCCCCCGCCTTTTCGTCAATCCCTGGGTGATCGTCAGGTACCTG
TACGAGAACACGCAGTGTGGGAGCGCAACGAAGTCAAGGCCATTTGGTGGATTATACGG
ACCCCATCCTCATGACCATCTTGATTAATTTCTCATTTTTATCCGATTCTTGGCATT
CTCCTGTCCAAGCTGAGGACACGGCAAATGCGCTGCCGGGATTACCGGCTGAGGCTGGCT
CGCTCCACGCTGACGCTGGTGGCCCTGCTGGGTGTCCACGAGGTGGTGTGTTGCTCCCGTG
ACAGAGGAACAGGCCCGGGCGCCCTGCGCTTCCGCAAGCTCGGCTTTGAGATCTTCCTC
AGCTCCTTCCAGGGCTTCTGGTCCAGCTCCTCTACTGCTTCATCAACAAGGAGGTGCAG
TCGGAGATCCGCCGTGGCTGGCACCCTGCGCCCTGCGCCGACGCTGGGCGAGGAGCAA
CGCCAGCTCCTGGAGCGCCTTCCGGGCCCTGCCCTCCGGCTCCGGCCCGGGCGAGGTC
CCCACCAGCCGCGGCTTGTCTCGGGGACCCTCCAGGGCTGGGAATGAGGCCAGCCGG
GAGTTGGAAAGTTACTGCTAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000164 unedited
 NGTAACGTTTCGAAATTTGTATACGACTCACTATAGGCGGCCAGTGTGATGGATATCT
 GCAGAATTCGGCTTGATCCTCAGGATGACTACCTCTCCGATCCTGCAGCTGCTGTCGG
 CTCTCACTGTGCGGGCTGCTGCTCCAGAGGGCGGAGACAGGCTCTAAGGGGCAGACGGCG
 GGGGAGCTGTACCAGCGCTGGGAACGGTACCGCAGGGAGTGCCAGGAGACCTTGGCAGCC
 GCGGAACCGCCTTCAGGCCTCGCCTGTAAACGGGTCCTTCGATATGTACGTCTGCTGGGAC
 TATGCTGCACCCAATGCCACTGCCGTGCGTCTGCCCTGGTACCTGCCCTGGCACCCAC
 CATGTGGCTGCAGGTTTTCGTCTCCGCCAGTGTGGCAGTGATGGCCAATGGGGACTTTGG
 AGAGACCATACACAATGTGAGAACCAGAGAAGAATGAGGCCTTTCTGGACCAAAGGCTC
 ATCTTGGAGCGGTTGCAGGTCATGTACTGTGCGCTACTCCCTGTCTCTCGCCACACTG
 CTGCTAGCCCTGCTCATCTTGTGTTTTCAGGCGGCTACATTGCACTAGAACTATATC
 CACATCAACCTGTTACGTCTTTCATGCTGCGAGCTGCGGCCATTCTCAGCCGAGACCGT
 CTGCTACCTCGACCTGGCCCTACCTTGGGGACCAGGCCCTTGCCTGTGGAACCAAGGCC
 CTCGCTGCCTGGCGCACGGCCAGATCGTGACCCAGTACTGCGTGGGTGCCAACTACACG
 TGGCTGCTGGTGGAGGGCTCTACTGCACAGTCTTCTGGTGTCTGTGGGAGCTCCGAC
 GAGGGCCACTTTCGCTACTACCTGCTNCTCGGCTGGGGGGCCCCCGCTTTTCGTCAAT
 CCTGGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000164 unedited
 CGTTCGGCACATTGGCGATGGCCAACCTCCAGGCCAGGGAAGAGCATGGGGAAGGGGTCA
 CAGGGCATGCCACCCGGGTATCTGTTTTCAGGCAACAGCTATGCACCGCGCCCGCAATCT
 AGAGTCGACAAGCTTGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGT
 GCTGGAATTCGGCTTCCCTAGCAGTAACCTTCCAACCTCCCGGCTGGCCTCATTCCAGGC
 CCTGGGAGGGTCCCCGAGGACAAGCCGCGGCTGGTGGGGACCTCGCCCGGCGGAGCCG
 GAGGGCAGGGCCCGAAGGCGCGCTCCAGGAGTGGCGTTGCTCCTCGCCAGGCTGCGG
 CGCAGGGCGCAGTGGTGGCAGCCACGGCGGATCTCCGACTGCACCTCCTTGTGATGAAG
 CAGTAGAGGACGCTGACCAGGAAGCCCTGGAAGGAGCTGAGGAAGATCTCAAAGCCGAGC
 TTGGCGAAGCGCAGGGGCGCCCGGGCTGTTTCTCTGTACGGGAGCAAACACCACCTCG
 TGGACACCCAGCAGGGGACCAGCGTACGCGTGGAGCGAGCCAGCCTCAGCCGGTAAATCC
 CGGCAGCGCATTTGCCGTGCTCCTCAGCTTGGACAGGAGAATGCCAAGAATGCGGATAAAA
 ATGAGGAAATTAATCAAGATGGTCATGAGGATGGGNGGTCCGTATAATCCACCAATGCC
 CTTGACTTCGTTGCGCTCCAGCACTGCGTGTCTCGTACAGGTACCTGACGATACCCA
 GGGAAATGACGAANAGCGCGGGGGCCCCCAGCCGAGAGCATGTAGTAGCGGNAAGTGGG
 CCCTCGTCGGAGCCTCCCACGAGACCAGNAGACTGTGCATGTAGACGCCCTCCACCACA
 CCAGTTGTAGTCGC

Restriction Sites:

Please inquire

ACCN:

NM_000164

Insert Size:

1700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000164.2](#), [NP_000155.1](#)

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.