

## Product datasheet for **RC222456**

### GIP (NM\_004123) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GIP (NM\_004123) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GIP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC222456 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGCCACGAAGACCTTTGCTCTGCTGCTGTCCCTGTTCTGGCAGTGGGACTAGGAGAGAAGA  
AAGAGGGTCACTTCAGCGCTCTCCCTCCCTGCCTGTTGGATCTCATGCTAAGGTGAGCAGCCCTCAACC  
TCGAGGCCCCAGGTACGCGGAAGGGACTTTCATCAGTGACTACAGTATTGCCATGGACAAGATTCACCAA  
CAAGACTTTGTGAAGTGGCTGCTGGCCAAAAGGGGAAGAAGAATGACTGGAAACACAACATCACCCAGA  
GGGAGGCTCGGGCGTGGAGCTGGCCGGTCAAGCTAATAGGAAGGAGGAGGAGGCAGTGGAGCCACAGAG  
CTCCCCAGCCAAGAACCCAGCGATGAAGATTTGCTGCGGGACTTGCTGATTCAAGAGCTGTTGGCCTGC  
TTGCTGGATCAGACAAACCTCTGCAGGCTCAGGTCTCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222456 protein sequence  
Red=Cloning site Green=Tags(s)

MVATKTFALLLSLFLAVGLGEKKEGHFSALPSLPVGSYAVVSSPQPRGPRYAEGTFISDYSIAMDKIHQ  
QDFVNWLLAQKGGKNDWKHNITQREARALELAGQANRKEEEAVEPQSSPAKNPSDEDLLRDLIIQELLAC  
LLDQTNLCRLRSR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6474\\_a05.zip](https://cdn.origene.com/chromatograms/mk6474_a05.zip)

**Restriction Sites:** SgfI-MluI



[View online >](#)

**Cloning Scheme:**


**ACCN:** NM\_004123

**ORF Size:** 459 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\\_004123.3](#)

**RefSeq Size:** 711 bp

**RefSeq ORF:** 462 bp

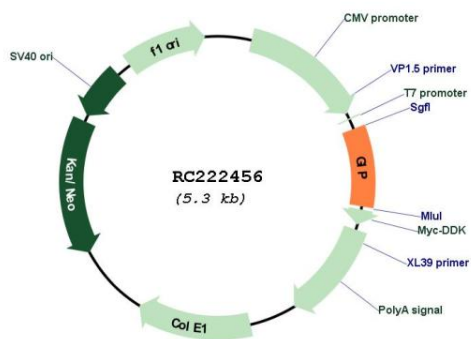
**Locus ID:** 2695

**UniProt ID:** [P09681](#)

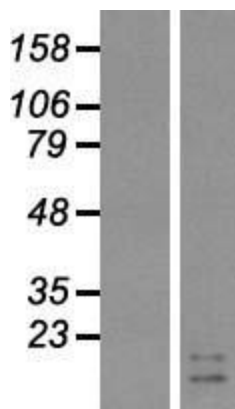
**Cytogenetics:** 17q21.32  
**Protein Families:** Druggable Genome, Secreted Protein  
**MW:** 17.1 kDa

**Gene Summary:** This gene encodes an incretin hormone and belongs to the glucagon superfamily. The encoded protein is important in maintaining glucose homeostasis as it is a potent stimulator of insulin secretion from pancreatic beta-cells following food ingestion and nutrient absorption. This gene stimulates insulin secretion via its G protein-coupled receptor activation of adenylyl cyclase and other signal transduction pathways. It is a relatively poor inhibitor of gastric acid secretion. [provided by RefSeq, Jul 2008]

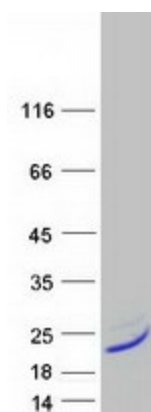
**Product images:**



Circular map for RC222456



Western blot validation of overexpression lysate (Cat# [LY418198]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222456 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GIP protein (Cat# [TP322456]). The protein was produced from HEK293T cells transfected with GIP cDNA clone (Cat# RC222456) using MegaTran 2.0 (Cat# [TT210002]).