

## **Product datasheet for RG222456**

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

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** GIP (NM\_004123) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: GIP

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG222456 representing NM\_004123

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TTGCTGGATCAGACAAACCTCTGCAGGCTCAGGTCTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222456 representing NM\_004123

Red=Cloning site Green=Tags(s)

MVATKTFALLLLSLFLAVGLGEKKEGHFSALPSLPVGSHAKVSSPQPRGPRYAEGTFISDYSIAMDKIHQ QDFVNWLLAQKGKKNDWKHNITQREARALELAGQANRKEEEAVEPQSSPAKNPSDEDLLRDLLIQELLAC

LLDQTNLCRLRSR

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

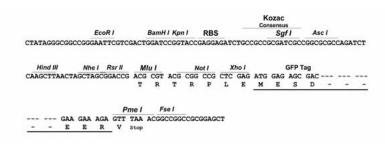
CN: techsupport@origene.cn

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## **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: <u>NM 004123.2</u>, <u>NP 004114.1</u>

RefSeq Size: 711 bp
RefSeq ORF: 462 bp
Locus ID: 2695



 UniProt ID:
 P09681

 Cytogenetics:
 17q21.32

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** This gene encodes an incretin hormone and belongs to the glucagon superfamily. The

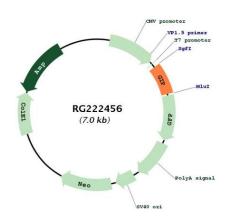
encoded protein is important in maintaining glucose homeostasis as it is a potent stimulator

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 RG222456