

Product datasheet for RG223506

G6PC2 (NM 001081686) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: G6PC2 (NM_001081686) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: G6PC2

Synonyms: IGRP

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG223506 representing NM_001081686
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TTCTCTATCACTCTGCACAGGCATGCTGGTGGCAGAGGCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223506 representing NM_001081686

Red=Cloning site Green=Tags(s)

MDFLHRNGVLIIQHLQKDYRAYYTFLNFMSNVGDPRNIFFIYFPLCFQFNQTVGTKMIWVAVIGDWLNLI FKWILFGHRPYWWVQETQIYPNHSSPCLEQFPTTCETGPGSPSGHAMGASCVWYVMVTAALSHTVCGMDK

FSITLHRHAGGRGL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



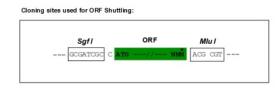
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

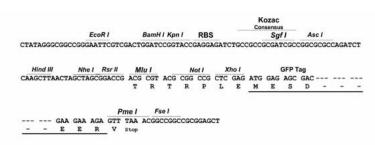
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

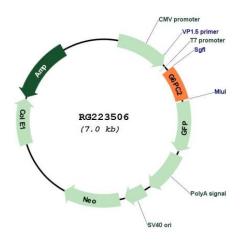


Cloning Scheme:





Plasmid Map:



ACCN: NM 001081686

ORF Size: 462 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.

Cytogenetics:

G6PC2 (NM_001081686) Human Tagged ORF Clone - RG223506

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 001081686.2</u>

 RefSeq Size:
 2980 bp

 RefSeq ORF:
 465 bp

 Locus ID:
 57818

 UniProt ID:
 Q9NQR9

Protein Families: Druggable Genome, Transmembrane

2q31.1

Protein Pathways: Adipocytokine signaling pathway, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin

signaling pathway, Metabolic pathways, Starch and sucrose metabolism

Gene Summary: This gene encodes an enzyme belonging to the glucose-6-phosphatase catalytic subunit

family. These enzymes are part of a multicomponent integral membrane system that catalyzes the hydrolysis of glucose-6-phosphate, the terminal step in gluconeogenic and glycogenolytic pathways, allowing the release of glucose into the bloodstream. The family

member encoded by this gene is found in pancreatic islets and does not exhibit

phosphohydrolase activity, but it is a major target of cell-mediated autoimmunity in diabetes. Several alternatively spliced transcript variants of this gene have been described, but their

biological validity has not been determined. [provided by RefSeq, Jul 2008]