

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG223506 representing NM\_001081686  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTTCTTCACAGGAATGGAGTGCTCATAATTCAGCATTTGCAGAAGGACTACCGAGCTTACTACA  
CTTTTCTAAATTTTATGTCCAATGTTGGAGACCCAGGAATATCTTTTCATTTATTTCCACTTTGTTT  
TCAATTTAATCAGACAGTTGGAACCAAGATGATATGGGTAGCAGTCATTGGGGATTGGTTAAATCTTATA  
TTTAAATGGATATTATTTGGTCATCGACCTTACTGGTGGTCCAAGAACTCAGATTTACCCAAATCACT  
CAAGTCCATGCCTTGAACAGTTCCTACTACATGTGAAACAGGTCCAGGAAGTCCATCTGGCCATGCAAT  
GGGCGCATCCTGTGTCTGGTATGTCATGGTAACCGCTGCCCTGAGCCACACTGTCTGTGGGATGGATAAG  
TTCTCTACTACTGACAGGCATGCTGGTGGCAGAGGCCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG223506 representing NM\_001081686  
**Red**=Cloning site **Green**=Tags(s)

MDFLHRNGVLIIQHLQKDYRAYYTFLNFMNSVGDPRNIFFIYFPLCFQFNQTVGTKMIWVAVIGDWLNLI  
FKWILFGHRPYWVQETQIYPNHSSPCLEQFPPTTCETGPGSPSGHAMGASCVWYVMVTAALSHTVCGMDK  
FSITLHRHAGGRGL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001081686.2</u>
<b>RefSeq Size:</b>	2980 bp
<b>RefSeq ORF:</b>	465 bp
<b>Locus ID:</b>	57818
<b>UniProt ID:</b>	<u>Q9NQR9</u>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism
<b>Gene Summary:</b>	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]