

Product datasheet for SC304916

G6PC2 (NM_021176) Human Untagged Clone

Product data:

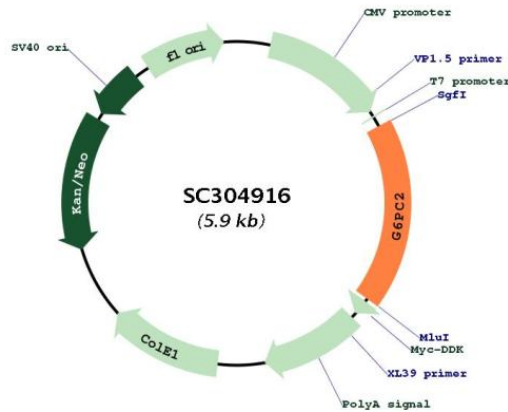
Product Type:	Expression Plasmids
Product Name:	G6PC2 (NM_021176) Human Untagged Clone
Tag:	Tag Free
Symbol:	G6PC2
Synonyms:	IGRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304916 representing NM_021176. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGATTTCTTCACAGGAATGGAGTGCTCATAATTCAGCATTTGCAGAAGGACTACCGAGCTTACTAC
ACTTTTCTAAATTTTATGTCCAATGTTGGAGACCCAGGAATATCTTTTTCATTTATTTCCACTTTGT
TTTCAATTTAATCAGACAGTTGGAACCAAGATGATATGGGTAGCAGTCATTGGGGATTGGTTAAATCTT
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GGTGGCATGCTGGTGGCAGAGGCCCTTTGAACACACTCCAGGCATCCAACGGCCAGTCTGGGCACATAC
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GACCTGCTGTGGTCCGTGCCATAGCCAAAAAGTGGTGTGCTAACCCGACTGGATCCACATTGACACC
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ATGTTCTCTGAGCTGCCGAGGGGAAATAACTACACACTGAGCTTCCGTTGCTCTGTGCCTTGACC
TCATTGACAATACTGCAGCTCTACCATTTCTCCAGATCCGACTCACGAAGAGCATTTATTTATGTG
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TTAATGAAACAAAGCGGAAAGAAGAGTCAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_021176

Insert Size: 1068 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_021176.2](#)

RefSeq Size: 3096 bp

RefSeq ORF: 1068 bp

Locus ID: 57818

UniProt ID:	Q9NQR9
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism
MW:	40.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>