

# Recombinant Full Length Human G6PC2 Protein

**Cat. No.** G6PC2-689HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human G6PC2 was expressed in Wheat Germ with proprietary liposome technology.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	355 amino acids
<b>Description</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.
<b>Form</b>	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
<b>Molecular Mass</b>	39.1 kDa
<b>AA Sequence</b>	MDFLHRNGVL IIQHLQKDYR AYYTFLNFMS NVGDPRNIFF IYFPLCFQFN QTVGTKMIWV AVIGDWLNLI FKWILFGHRP YWWVQETQIY PNHSSPCLEQ FPTTCETGPG SPSGHAMGAS CVWYVMVTAA LSHTVCGMDK FSITLHRLTW

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SFLWSVFWLI QISVCISRVF IATHFPHQVI LGVIGGMLVA EAFEHTPGIQ  
 TASLGTYLKT NLFLFLFAVG FYLLLRVNI DLLWSVPIAK KWCANPDWIH  
 IDTPFAGLV RNLGVLFGLG FAINSEMFL SCRGGNNYTL SFRLLCALTS  
 LTILQLYHFL QIPTHEEHLF YVLSFCKSAS IPLTVVAFIP YSVHMLMKQS GKKSQ

**Applications** Antibody Production; Functional Study: Recommended usage only, not validated yet;  
 Compound Screening: Recommended usage only, not validated yet.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name** [G6PC2 glucose-6-phosphatase, catalytic, 2 \[ Homo sapiens \]](#)

**Official Symbol** [G6PC2](#)

**Synonyms** G6PC2; glucose-6-phosphatase, catalytic, 2; glucose-6-phosphatase 2; IGRP; islet specific glucose 6 phosphatase catalytic subunit related protein; G6Pase 2; G-6-Pase 2; islet-specific G6CP-related protein; islet-specific glucose-6-phosphatase-related protein; islet-specific glucose-6-phosphatase catalytic subunit-related protein; MGC141936

**Gene ID** [57818](#)

**mRNA Refseq** [NM\\_021176](#)

**Protein Refseq** [NP\\_066999](#)

**MIM** [608058](#)

**UniProt ID** [Q9NQR9](#)

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