

## Product datasheet for **MC201182**

### **G6pc (NM\_008061) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	G6pc (NM_008061) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	G6pc
Synonyms:	AW107337; G6P; G6Pase; G6pc1; G6pt; Glc-6-; Glc-6-Pase
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC013448 sequence for NM\_008061  
 GGCCAACCGGGCTGGACTCACTGCACGGCTCTGCTGGCAGCTTCTGAGGTACCAAGGGAGGAAGGATG  
 GAGGAAGGAATGAACATTCTCCATGACTTTGGGATCCAGTCGACTCGCTATCTCCAAGTGAATTACCAAG  
 ACTCCCAGGACTGGTTCATCCTTGTGTCTGTGATTGCTGACCTGAGGAACGCCTTCTATGTCCTCTTTCC  
 CATCTGGTTCCATCTTAAAGAGACTGTGGGCATCAATCTCCTCTGGGTGGCAGTGGTCGGAGACTGGTTC  
 AACCTCGTCTTCAAGTGGATTCTGTTTGGACAACGCCCGTATTGGTGGTCTGGACACCGACTACTACA  
 GCAACAGCTCCGTGCCTATAATAAAGCAGTTCCTGTACCTGTGAGACCGGACCAGGAAGTCCCTCTGG  
 CCATGCCATGGGCGCAGCAGGTGTATACTATGTTATGGTCACTTCTACTCTTGCTATCTTTCGAGGAAAG  
 AAAAAGCCAACGTATGGATTCCGGTGTTTGAACGTCATCTTGTGGTTGGGATTCTGGGCTGTGCAGCTGA  
 ACGTCTGTCTGTCCCGATCTACCTTGCTGCTCACTTTCCCACCAGGTCGTGGCTGGAGTCTTGTCCAGG  
 CATTGCTGTGGCTGAAACTTTCAGCCACATCCGGGGCATCTACAATGCCAGCCTCCGGAAGTATTGTCTC  
 ATCACCATCTTCTGTTTGGTTTCGCGCTTGGATTCTACCTGCTACTAAAAGGGCTAGGGGTGGACCTCC  
 TGTGGACTTTGGAGAAAGCTAAGAGATGGTGTGAGCGCCAGAATGGGTCCACCTTGACACTACACCCTT  
 TGCCAGCCTCTTCAAAAACCTGGGAACCCTCTTGGGGTGGGGCTGGCCCTCAACTCCAGCATGTACCGG  
 AAGAGCTGCAAGGGAGAAGCTCAGCAAGTTGCTCCATTCCGCTTGCCTGCATTGTGGCTCCTTGGTCC  
 TCCTGCATCTCTTGACTCTCTGAAGCCCCATCCCAGGTTGAGTTGATCTTCTACATCTTGTCTTCTCTG  
 CAAGAGCGCAACAGTTCCTTTGCATCTGTCACTTATCCCATACTGCCTAGCCCGGATCCTGGGACAG  
 ACACACAAGAAGTCTTTGTAAGGCATGCAGAGTCTTGGTATTTAAAGTCAACCGCCATGCAAAAGGACTA  
 GGAACAATAAAGCCTCTGAAACCCATTGTGAGGCCAGAGGTGTTGACATCGGCCCTGGTAGCCCTGTCT  
 TTCTTTGCTATCTTAACCAAAAGGTGAATTTTTACAAAGCTTACAGGGCTGTTTGGAGAAAGTGTGAATG  
 CTGGAACTGAGTCATTCTGGATGGTCCCTGAAGATTCGCTTACCAGCCTCCTGTCGGATACAGAAGAG  
 CAAGCCCAGGCTAGAGATCCCAACTGAGAATGCTTTCGGGTGCAGAATCTTCCGGCTGGGAAAAGGAAA  
 AGAGCACCATGCATTTGCCAGGAAGAGAAAGAAGGATCAGGAGGAGGAGAGTGTTTATGTATCGAGCA  
 AACCAGATGCAATCTATGTCTAACCAGGCTTCAGTTGTGTCTGTGTTTTAGATACGACACACTCAATAAT  
 AATAATAGACCAACTAGTGAATGAGTAGCCAGTTAAAGCGGATTAATTCTGCTTCCAGATAGTCTCCAC  
 TGTACATAAAAAATCACACTGTGTGCTTGCATTCTGTATGGTAGTGGTACTGTCTCTCACACCACCTTC  
 TCTATCACGTCACAGTTTTCTCCTCCTCAGCCTATGTCTGCATTTCCCAGAACTTCCACTTGTTCCTG  
 GCCCCCTGTGGACCCTGCTGTGTCTGGTAGGCAACTGTTTGTGGTGTCTTTGTAGGGTTAAGTTAAA  
 CTCTGAGATCTTGGGCAAAATGGCAAGGAGACCCAGGATCTTCTCTCAAAGGCTACTCCGATGTTATT  
 TTTGATCTGGGCGAGAAATATGACTCCTTTCCCTAGCCCAAGCCATCCAAGAGCTCTCATTCTTAGAA  
 GAAAAGGCAGCCCCTTGGTACTGTCCTCTGCCTCGGCTGATTTGCAGAGTACTTCTTCAAAAAGAAAA  
 AAATGGTAAAGCTATTTATTAATAAATTCTTTGTTTTTGTACAAATGATGCATATATTTTACCCACAC  
 CAAGCACTTTGTTTCTAATATCTTTGATAAGAAAACACATGTGCAGATTTTATTAAGCAACATTTTA  
 TTTAAA  
 AA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_008061

**Insert Size:** 1074 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).

**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:** [BC013448](#), [AAH13448](#)

**RefSeq Size:** 2355 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 14377

**UniProt ID:** [P35576](#)

**Cytogenetics:** 11 D

**Gene Summary:** The enzyme encoded by this gene is a multisubunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for glucose-6-phosphate, inorganic phosphate, and glucose. This gene is one of three glucose-6-phosphatase catalytic-subunit-encoding genes in mouse. Glucose-6-phosphatase catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate and is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Mutations in this gene cause glycogen storage disease type I (GSD1). [provided by RefSeq, Sep 2015]