

## Product datasheet for **SC328946**

### PGM1 (NM\_001172818) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGM1 (NM_001172818) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGM1
Synonyms:	CDG1T; GSD14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

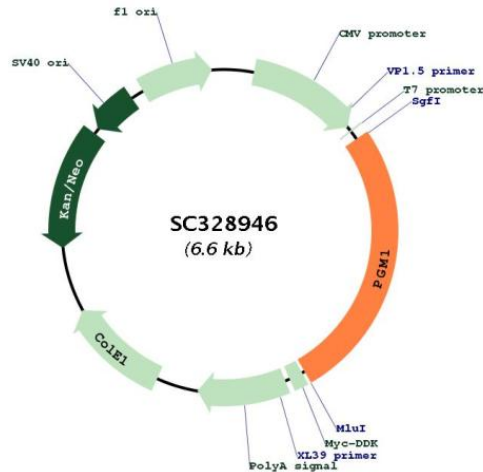


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Fully Sequenced ORF: >SC328946 representing NM\_001172818.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGTGATTTGAAGAATGGATTTCTGGGACATATAGAAAAATGGAAGAAGTCTCTCCCTCTGTG
ACTTTTGCTACAGCTCCCTACCAGCATCAGAAACCAGGAACAAGTGGATTACGGAAGAAAACCTATTAT
TTTGAGGAAAAGCCATGCTATCTGGAGAATTTTCATCCAGAGTATATTCTTTTCCATAGACCTAAAAGAT
CGCCAGGGATCATCACTGGTGGTGGTGGAGATGGGCGTACTTTAATAAATCAGCAATAGAAAACAATA
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TACACTGTGGAGAAGGCCGATAACTTTGAATACAGCGACCCAGTGGATGGAAGCATTTCAAGAAATCAG
GGCTTGCCTCATTTTACAGATGGTTCTCGAATCGTCTTCCGACTGAGCGGCACTGGGAGTGCCGGG
GCCACCATTCGGCTGTACATCGATAGCTATGAGAAGGACGTTGCCAAGATTAACCAGGACCCCCAGGTC
ATGTTGGCCCCCTTATTTCCATTGCTCTGAAAGTGTCCAGCTGCAGGAGAGGACGGGACGCACTGCA
CCCACTGTCATCACCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001172818

**Insert Size:** 1743 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\\_001172818.1](#)

**RefSeq Size:** 2573 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 5236

**UniProt ID:** [P36871](#)

**Cytogenetics:** 1p31.3

<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism
<b>MW:</b>	63.8 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an isozyme of phosphoglucomutase (PGM) and belongs to the phosphohexose mutase family. There are several PGM isozymes, which are encoded by different genes and catalyze the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, this PGM isozyme is predominant, representing about 90% of total PGM activity. In red cells, PGM2 is a major isozyme. This gene is highly polymorphic. Mutations in this gene cause glycogen storage disease type 14. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (2) has an alternate 5' exon, as compared to variant 1. The resulting isoform (2) has a longer and different N-terminus, as compared to isoform 1.</p>