

## Product datasheet for **SC122557**

### PGAM2 (NM\_000290) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PGAM2 (NM\_000290) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PGAM2  
**Synonyms:** GSD10; PGAM-M; PGAMM  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000290 edited  
AATTCGGTACGAGGGTTGGGAAGCAGCCGTCCTCCAGAGTCCTCTGTGGTCCCTGCT  
GCCACCATGGCCACTCACCGCCTCGTGATGGTCCGGCACGGCAGAGACACATGGAACCAG  
GAGAACCGTTTCTGTGGCTGGTTTCGATGCAGAGCTGAGTGAAAAGGGGACCGAGGAGGCC  
AAGCGGGGAGCCAAGGCCATCAAGGATGCCAAGATGGAGTTTGACATCTGCTACACGTCA  
GTGCTGAAGCGGGCCATCCGCACCCTCTGGGCCATCCTGGACGGCACGGACCAGATGTGG  
CTGCCTGTGGTGCACACTTGGCGCCTCAATGAGCGGCATTACGGGGGCCTCACAGGCCTC  
AACAAAGGCAGAAACGGCCGCAAGCACGGGGAGGAGCAGGTGAAGATCTGGAGGCGCTCC  
TTCGACATCCCGCCGCCCGATGGACGAGAAGCACCCCTACTACAACCTCATTAGCAAG  
GAGCGTCCGTACGCAGGCCTGAAGCCCGGGAACTCCCCACCTGCGAGAGCCTCAAGGAC  
ACCATTGCCCGGGCCCTGCCCTTCTGGAACGAGGAGATTGTTCCCAGATCAAGGCCGGC  
AAGCGAGTGCTCATTGCAGCCCACGGGAACAGCCTGCGGGGCATTGTCAAGCACCTGGAA  
GGGATGTCAGACCAGGCATCATGGAGCTGAACCTGCCACGGGGATCCCCATTGTGTAT  
GAGCTGAACAAGGAGCTGAAGCCCACCAAGCCCATGCAGTTCTGGGTGATGAGGAAACG  
GTGCGGAAGGCCATGGAGGCTGTGGCTGCCAGGGCAAGGCCAAGTGAGGGGTGGGCTTG  
GGCAATAAAGGCACCTCCCCAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000290 unedited NAAGTCAAACATTGTAAACCACTACAATAGGCGGCCCGGAATCGGTACGAGGGTTGGG AACCCAGCCGTCCCCGTCCAGAGTCTCTGTGGTCCCTGCTGCCACCATGGCCACTCACCG CCTCGTGATGGTCCGGCACGGCAGAGCACATGGAACCAGGAGAACCCTTTCTGTGGCTG GTTCGATGCAGAGCTGAGTAAAAAGGGACCGAGGAGGCAAGCGGGGAGCCAAGGCCAT CAAGGATGCCAAGATGGAGTTTGACATCTGCTACACGTCACTGTAAGCGGGCCATCCG CACCCTCTGGCCATCCTGGACGGCACGGACCAGATGTGGCTGCCTGTGGTGCGCACTTG GCGCCTCAATGAGCGGCATTACGGGGCCCTCACAGGCCTCAACAAGGCAGAAACGGCCGC CAAGCACGGGGAGGAGCAGGTGAAGATCTGGAGGCGCTCCTTCGACATCCCGCCGCCCC GATGGACGAGAAGCACCCCTACTACAACCTCATTAGCAAGGAGCGTCGGTACGCAGGCCT GAAGCCCGGGAACTCCCACCTGCGAGAGCCTCAAGGACACCATTGCCCGGGCCCTGCC CTTCTGGAACGAGGAGATTGTTCCCCAGATCAAGGCCGGAAGCGAGTGCTCATTGCAGC CCACGGGAACAGCCTGCGGGCATTGTCAAGCACCTGGAAGGGATGTCAGACCAGGCGAT CATGGAGCTGAACCTGCCACGGNGATCCCATTTGTGTATGAGCTGAACAGGAGCTGAAG CCACCAAGCCATGCATTCTGGGTGATGAGAAAACGTGCGGAANGCCATGNAGGCTGTGG CTGCCCCAGGCAGCCAATGAGGGGTGGGCTGGGCATAAAGCACCTCCCCACAAAAA AAAAAAAAAAAAACTCACTCTGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000290
<b>Insert Size:</b>	896 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_000290.2</a> , <a href="#">NP_000281.2</a>
<b>RefSeq Size:</b>	845 bp
<b>RefSeq ORF:</b>	762 bp
<b>Locus ID:</b>	5224
<b>UniProt ID:</b>	<a href="#">P15259</a>
<b>Cytogenetics:</b>	7p13
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycolysis / Gluconeogenesis, Metabolic pathways

**Gene Summary:**

Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). This gene encodes muscle-specific PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase efficiency, also known as glycogen storage disease X. [provided by RefSeq, Sep 2009]