

Product datasheet for **SC114679**

PGM3 (NM_015599) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM3 (NM_015599) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGM3
Synonyms:	AGM1; IMD23; PAGM; PGM 3
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015599, the custom clone sequence may differ by one or more nucleotides

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ATGGATTTAGGTGCTATTACAAAATACTCAGCATTACACGCCAAGCCCAATGGACTGATCCTTCAATACG
GGACTGCTGGATTTGCAACGAAGGCAGAACATCTTGATCATGTCATGTTTCGCATGGGATTATTAGCTGT
CCTGAGGTCAAAACAGACAAAATCCACTATAGGAGTCATGGTAACAGCGTCCCACAATCCTGAGGAAGAC
AATGGTGTAAAATTGGTTGATCCTTTGGGTGAAATGTTGGCACCATCCTGGGAGGAACATGCCACCTGTT
TAGCAAATGCTGAGGAACAAGATATGCAGAGAGTGCTTATTGACATCAGCGAGAAAGAAGCTGTGAATCT
GCAACAAGATGCCTTTGTAGTTATTGGTAGAGATACCAGGCCCAGCAGTGAGAAACTTTCACAATCTGTA
ATAGATGGTGTGACTGTTCTAGGAGGTCAATCCATGATTATGGCTTGTTAACACACCCCGACTGCACT
ACATGGTGTATTGTCGAAACACGGGTGGCCGATATGGAAGGCAACTATAGAAGTTACTACCAGAAACT
CTCTAAGGCTTTTGTGAACTACCAAACAGGCTTCTTGCAGTGGAGATGAATACAGATCACTTAAGGTT
GACTGTGCAAATGGCATAGGGGCCCTGAAGCTAAGGGAAATGGAACACTACTTCTCACAGGGCCTGTCAG
TTCAGCTGTTTAAATGATGGGTCCAAGGGCAAACCAATCATTTATGTGGAGCTGACTTTGTGAAAAGTCA
TCAGAAAACCTCCACAGGGAATGGAATTAAGTCCAATGAAAGATGCTGTTCTTTTATGAGGATGCAGAC
AGAATTGTTTATTACTACCATGATGCAGATGGCCACTTTCATCTCATAGATGGAGACAAGATAGCAACGT
TAATTAGCAGTTTCTTAAAGAGCTCCTGGTGGAGATTGGAGAAAAGTTTGAATATTGGTGTGTACAAAAC
TGCATATGCAAAATGGAAGTTCAACACGGTATCTTGAAGAAGTTATGAAGGTACCTGTCTATTGCACTAAG
ACTGGTGTAAAACATTTGCACCACAAGGCTCAAGAGTTTGACATTGGAGTTTATTTTGAAGCAAATGGGC
ATGGCACTGCACTGTTTGTAGTACAGCTGTTGAAATGAAGATAAAAACAATCAGCAGAAACAATGGAAGATA
GAAAAGAAAAGCTGCTAAGATGCTTGAACATTTATTGACTTGTTTAAACCAGGCAGCTGGTGTGCTATT
TCTGACATGCTGGTGATTGAAGCAATCTTGGCTGAAGGCTTGACTGTACAACAGTGGATGCTCTCT
ATTACAGATCTTCCAAACAGACAACCTTAAAGTTCAGGTTGACAGACAGGAGAGTTATTAGCACTACCGATGC
TGAAAGACAAGCAGTTACACCCCAAGGATTACAGGAGGCAATCAATGACCTGGTGAAGAAGTACAAGCTT
TCTCGAGCTTTTGTCCGGCCCTCTGGTACAGAAGATGTCGTCCGAGTATATGCAGAAGCAGACTCACAAG
AAAGTGCAGATCACCTTGCACATGAAGTGAAGTGGCAGTATTTTCAAGCTGGCTGGAGGAATTGGAGAAA
GCCCAACCAGGTTTCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015599 unedited

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ATTTGTAATACGACTCACTATAGGGCGGCNCGCAATCGGCACGAGGCTTCTCCGCTGCG
TGTAGGTGAAGGGGGCTTCTGACCGAGACATGGATTTAGGTGCTATTACAAAATACTCA
GCATTACACGCCAAGCCCAATGGACTGATCCTTCAATACGGGACTGCTGGATTTGCAACG
AAGGCAGAACATCTTGATCATGTGTCATGTTTCGCATGGGATTATTAGCTGTCTGAGGTCA
AAACAGACAAAATCCACTATAGGAGTCATGGTAACAGCGTCCCACAATCCTGAGGAAGAC
AATGGTGTAAAATTGGTTGATCCTTTGGGTGAAATGTTGGCACCATCCTGGGAGGAACAT
GCCACCTGTTTAGCAAATGCTGAGGAACAAGATATGCAGAGAGTGCTTATTGACATCAGC
GAGAAAAGAAGCTGTGAATCTGCAACAAGATGCCTTTGTAGTTATTGGTAGAGATACCAGG
CCCAGCAGTGAGAAACTTTCACAATCTGTAATAGATGGTGTGACTGTTCTAGGAGGTCAA
TTCCATGATTATGGCTTGTTAACAAACACCCCAAGCTGCACTACATGGTGTATTGTGCAAAC
ACGGGTGGCCGATATGGAAGGCAACTATAGAAGTTACTACCAGAAACTCTCTAAGGCT
NTTGTGAACTACCAAACAGGCTTCTTGCAGTGGAGATGAATACAGATCACTTAAAGTT
GACTGTGCANATGGCATANGGGCCCTGAAGCTAAGGGAAATGGAACACTACTTCTCACA
GGCCCTGTCAGTTCAGCTGTTTAAATGATGGGTCCAAGGNNCAACTCATCATTTATGTGG
AGCTGACCTTGTGAAAAGTCATCANAAACCTNCCCAGGGTACCCTGTCTATTGCACTAA
GACTGGTNGTAAACATTTGCACCACAAAGCTCAAGAGTTTACATTTGGAGTTTATTCTGN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015599 unedited GTACGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGTAATAAGATTTAAT TTTCCAGTAGCCTGCATGAATTGTTCCCCACATAAAACTGTACAGTTAGTGACTGAATTG TATACTTAAGTCCCAGTATTTTACATTAGTGAGACTGAAATTAGAGGTAATTTCTTTAA CAAGTGTAAAGCTTACCTATTTATAAGAATTATTCTGTTAGTGTAAAGAAAAACAGAT CTAGAGACAATCCAGTAGGCTGCATTGTAACATTATGATTATAAATCTTTAGTACTGC CATTATTATTGACAGTTTTGTAAAGACTTGTA AAAAGTCCAGTTTCTCAGGAATATGAAA ATTATCTTCAGAAACCTGGTTGGGGCCTTCTCCAATTCCTCCAGCCAGCTGAAACTG CCAAGCTCACTTCATGTGCAAGGTGATCTGCACTTTCTTGTGAGTCTGCTTCTGCATATA CTCGGACGACATCTTCTGTACCAGAGGGCCGGACAAAAGCTCGAGAAAGCTTGTACTTCT TCACCAGGTCATTGATTGCCTCCTGTAATCCTGGGGGTGTAAGTCTTGTCTTTCCAGCAT CGGTAGTGCTAATAACTCTCTGTCTGCAACCTGAACTTAAAGTTGTCTGTTTGGAAAGAT CTGTATAGAGAGCATCCCACTGTTGTACAGTCAAGCCCTTCAGAGCCAAGATTGCTTCA ATCACCAGCATGTCAGAAATAGCATCACCAGCTGCCCTGGTAAACAAGTCATAATGTTTT CAACCTCTTAACAGCTTTTCTTTTTATCTTCAGCTGTTTGTCTGATGGGTATCTCATT CACAGCTGTACTAACAGTGCAGGCCATGCCATTTGCTTAAAATAACTCATGTCAACTTTT GAACCTGGGGCAAAGTTTTACCGTTTACGGAATGAAGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_015599
Insert Size:	1830 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:	<ol style="list-style-type: none"> 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_015599.1 , NP_056414.1
RefSeq Size:	2013 bp
RefSeq ORF:	1629 bp
Locus ID:	5238
UniProt ID:	O95394
Cytogenetics:	6q14.1
Domains:	PGM_PMM, PGM_PMM_I
Protein Pathways:	Amino sugar and nucleotide sugar metabolism

Gene Summary:

This gene encodes a member of the phosphohexose mutase family. The encoded protein mediates both glycogen formation and utilization by catalyzing the interconversion of glucose-1-phosphate and glucose-6-phosphate. A non-synonymous single nucleotide polymorphism in this gene may play a role in resistance to diabetic nephropathy and neuropathy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.