

Product datasheet for **SC113597**

PGM2 (NM_018290) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM2 (NM_018290) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGM2
Synonyms:	MSTP006
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113597 sequence for NM_018290 edited (data generated by NextGen Sequencing)

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ATGGCGGCTCCAGAAGGCAGCGGTCTAGGCGAGGACGCCCGGCTGGACCAGGAGACCGCC
CAGTGGCTGCGCTGGGACAAGAATTCCTTAACTTTGGAGGCAGTGAAACGACTAATAGCA
GAAGGTAATAAAGAAGAACTACGAAAATGTTTTGGGGCCGAATGGAGTTTGGGACAGCT
GGCCTCCGAGCTGCTATGGGACCTGGAATTTCTCGTATGAATGACTTGACCATCATCCAG
ACTACACAGGGATTTTGCAGATACCTGGAAAAACAATTCAGTGACTTAAAGCAGAAAGGC
ATCGTGATCAGTTTTGACGCCGAGCTCATCCATCCAGTGGGGTAGCAGCAGAAGGTTT
GCCCGACTTGCTGCAACCACATTTATCAGTCAGGGGATTCCTGTGTACCTCTTTTCTGAT
ATAACGCCAACCCCTTTGTGCCCTTACAGTATCACATTTGAAACTTTGTGCTGGAATC
ATGATAACTGCATCTCACAATCCAAGCAGGATAATGGTTATAAGGTCTATTGGGATAAT
GGAGCTCAGATCATTTCTCCTCACGATAAAGGGATTTCTCAAGCTATTGAAGAAAATCTA
GAACCGTGGCCTCAAGCTGGGACGATTCTTTAATTGATAGCAGTCCACTTCTCCACAAT
CCGAGTGCTTCCATCAATAATGACTACTTTGAAGACCTTAAAAAGTACTGTTTCCACAGG
AGCGTGAACAGGGAGACAAGGTGAAGTTTGTGCACACCTCTGTCCATGGGGTGGGTGAT
AGCTTTGTGACAGTCAGCTTTCAAGGCTTTTGACCTTGTCTCCTGAGGCTGTTCTGAA
CAGAAAGATCCGATCCTGAGTTTCCAACAGTGAATACCCGAATCCCGAAGAGGGGAAA
GGTGTCTTGACTTTGTCTTTTGGCTTGGCTGACAAAACCAAGGCCAGAATTGTTTAGCT
AACGACCCGGATGCTGATAGACTTGCTGTGGCAGAAAAGCAAGACAGTGGTGAATGGAGG
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GAGAAGAACCAGGATCGCAGTGTCTCAAAGACACGTACATGTTGTCCAGCACCGTCTCC
TCCAAAATCTTGGGGCCATTGCCTTAAAGGAAGTTTTTCAATTTGAGGAAACATTAAT
GGCTTTAAGTGGATGGGAAACAGAGCCAACAGCTAATAGACCAGGGGAAAACCTGTTTTA
TTTGCATTTGAAGAAGCTATTGGATACATGTGCTGCCCTTTTGTCTGGACAAAGATGGA
GTCAGTGCCGCTGTGATAAGTGCAGAGTTGGCTAGCTTCTAGCAACCAAGAATTTGTCT
TTGTCTCAGCAACTAAAGGCCATTTATGTGGAGTATGGCTACCATATTACTAAAGCTTCC
TATTTTATCTGCCATGATCAAGAAACCATTAAGAAATTTTAAAAACCTCAGAACTAC
GATGGAAAAAATAATTATCCAAAAGCTTGTGGCAAATTTGAAATTTCTGCCATTAGGGAC
CTTACAACCTGGCTATGATGATAGCCAACCTGATAAAAAAGCTGTTCTTCCCACTAGTAAA
AGCAGCCAAATGATCACCTTACCTTTGCTAATGGAGGCGTGGCCACCATGCGCACCAGT
GGGACAGAGCCCCAAAATCAAGTACTATGCAGAGCTGTGTGCCCCACCTGGGAACAGTGAT
CCTGAGCAGCTGAAGAAGGAACTGAATGAACTGGTCAGTGCTATTGAAGAACATTTTTTC
CAGCCACAGAAGTACAATCTGCAGCCAAAAGCAGACTAA
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Clone variation with respect to NM_018290.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_018290 unedited</p> <pre>GGCTGGAANAAAAACCGATTACTATAGGCGGCCGCGCATTTCGGCACGAGGCACAAGCTTA GCGATGGCGGGCTCCAGAAGGCAGCGGTCTAGGCGAGGACGCCGGCTGGACCAGGAGACC GCCCAGTGGCTGCGCTGGGACAAGAATTCCTTAACTTTGGAGGCAGTGAACGACTAATA GCAGAAGTAATAAAGAAGAAGTACGATTTTGTGGGGCCGAATGGAGTTTGGGACA GCTGGCCTCCGAGCTGCTATGGGACCTGGAATTTCTCGTATGAATGACTTGACCATCATC CAGACTACACAGGGATTTTGCAGATACCTGGAACCAATTCAGTGACTTAAAGCAGAAA GGCATCGTGATCAGTTTTGACGCCGAGCTCATCCATCCAGTGGGGGTAGCAGCAGAAGG TTTGCCCGACTTGCTGCAACCACATTTATCAGTCAGGGGATTCCTGTGTACCTCTTTTCT GATATAACGCCAACCCCTTTGTGCCCTTACAGTATCACATTTGAAACTTTGTGCTGGA ATCATGATAACTGCATCTCACAATCCAAAGCAGGATAATGTTTATAAGGTCTATTGGGAT AATGGAGCTCAGATCATTCTCCTCACGATAAAGGGATTTCTCAAGCTATTGAAGAAAAT CTAGAACCGTGGCCTCAAGCTTGGGACGATTCTTAATTGATAGCAGTCCACTTCTCCAC AATCCGAGTGCTTCCATCAATAATGACTACTTTGAAGACCTTAAAAAGTACTGTTCCAC AGGAGCGTGAACAGGGAGACAAAGGTGAAGTTTGTGCACACCTCTGTCCATGGGGTGGGT CATAGCTTTGTGACGTCAGCTTTTCAAGCTTTTACCTTGTCTTCTGAGCTTGTCTGTA ACAGAAAGACCGGATCCTGAGTTTCN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018290 unedited</p> <pre>GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTATTCATTTATTTTA CTTTCTAAGGAATTGATAGAAAATAAAATGTACATATACCTAAAAAGTGGCTATCCTACA TATGACAGCCCAGAATTTACTAACTCCATAGGTTTTCTGGATATTTCAAGCACACATTAA AACAAATACAGAGAGGACATACATTTATGATTTATGCAAATTAAGGCACATCAATTACAA TCTATTTTTTTAAGTTAGTCAGTTTAAAAATCTTCACTTACAAAAATTCAAAATATGTCC AAGCTCAACTTTTTAGTAGGAATGTTAGTTTGTGGGTTTGGCCATTTCTTTTTTACC TTAAAGGTCAAACATGAAACAATGAGGAATGTAGGTCTTTGTAAAACACATAAATACCTG TGATGTTTTGAATCATTGGCCCTTAAAAATATTGCTTAAACAAGTTAAACCCAGCTTAAT TGTAGGTAATGCAAGTATACCAAGGCTGGACTATTTTAGTCTGCTTTTGGCTGCAGAT TGACTTCTGTGGCTGGAAAAATGTTCTTCAATAGCACTGACCAGTTCATTTCAGTTCTC TCTTCAGCTGCTCAGGATCACTGTTCCAGGTGGGGCACACAGCTCTGCATAGTACTTGA TTTTGGGCTCTGTCCACTGGTGCGCATGGTGGCCACGCCTCCATTAGCAAAGGTGAAGG TGATCATTGGCTGCTTTTACTAGTGGGAAGAACAGCNTTTTTATCANGNTGGCTATCAT CATAGCCAGTTGTAAGGTCCCTAATGGCAGAAATCAAATGGCCACAGCTTTTGATAAAT ATTTTCCATCGAGNTTCTGAGGTTCAAATAATTCTAATGGCTCCTTGACATGCAGATAA AATAGAGCTTNAGTACTATGCACCATACTACCATAAGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018290
Insert Size:	2500 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_018290.2 , NP_060760.2
RefSeq Size:	3192 bp
RefSeq ORF:	1839 bp
Locus ID:	55276
UniProt ID:	Q96G03
Cytogenetics:	4p14
Domains:	PGM_PMM_I, PGM_PMM_II
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism
Gene Summary:	Catalyzes the conversion of the nucleoside breakdown products ribose-1-phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses. May also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. Has low glucose 1,6-bisphosphate synthase activity.[UniProtKB/Swiss-Prot Function]