

Product datasheet for **SC118510**

PGAM1 (NM_002629) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAM1 (NM_002629) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGAM1
Synonyms:	HEL-S-35; PGAM-B; PGAMA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118510 sequence for NM_002629 edited (data generated by NextGen Sequencing)

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ATGGCCGCTACAACTGGTGCTGATCCGGCACGGCGAGAGCGCATGGAACCTGGAGAAC
CGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGCGGGCCACGAGGAGGCGAAGCGC
GGCGGGCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAG
AAGAGAGCGATCCGGACCCTCTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCA
GTGGTGAGGACTTGGCGCCTCAATGAGCGGCACTATGGGGGTCTAACCGGTCTCAATAAA
GCAGAACTGCTGCAAAGCATGGTGAGGCCAGGTGAAGATCTGGAGGCGCTCCTATGAT
GTCCCACCACCTCCGATGGAGCCCAGCATCCTTTCTACAGCAACATCAGTAAGGATCGC
AGGTATGCAGACCTCACAGAAGATCAGTACCCTCCTGTGAGAGTCTGAAGGATACTATT
GCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCAGATCAAGGAGGGGAAACGT
GTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGCTCTC
TCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTGTCTATGAATTG
GACAAGAAGCTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCGC
AAAGCCATGGAAGCTGTGGCTGCCAGGGCAAGGCCAAGAAGTGA
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Clone variation with respect to NM_002629.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002629 unedited
 NGTCAGATATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGCGCATCC
 CCAGCCCCGCCCATGGCCGCCTACAACTGGTGTGATCCGGCACGGCGAGAGCGCATG
 GAACCTGGAGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCCGGCGGGCCACGA
 GGAGGCGAAGCGCGGGCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTT
 CACCTCAGTGCAGAAGAGAGCGATCCGGACCCTCTGGACAGTGCTAGATGCCATTGATCA
 GATGTGGCTGCCAGTGGTGAGGACTTGGCGCCTCAATGAGCGGCACTATGGGGGTCTAAC
 CGGTCTCAATAAAGCAGAACTGCTGCAAAGCATGGTGAGGCCAGGTGAAGATCTGGAG
 GCGCTCTATGATGTCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACAT
 CAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGCTACCCTCCTGTGAGAGTCT
 GAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTCCCCAGATCAA
 GGAGGGNGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGC
 ATCTGGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCC
 ATGTCTATGAATTGGACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGAT
 GAAGAGACGGTGCCAAAGCCTGGGAGCTGTGGCTGCCAGGCAGCCAAAGAAGTGAGGC
 CGCGGGGAGGATACTGTCCAGAAAGCAACTCCTGCCCGTTTGGTCTCTGCCCTCCACC
 TGCCATGTACACTGACACATCTGTAACTTTTTGTAGTGTACTGCNACGGGGACAATGGCTT
 CATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002629 unedited
 ATGGCACTTCCAGGGCCGNATAGCACTGGGGAGGGGTACAGGNATGCCACCCGGGATC
 TGTTTCAGGAAACAGCTATGACCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTT
 TTATTGCACATCACTCCTTTATTATACTGATATGGAAAAAGGATTTAGTACAGTTATGCT
 CAGATGAACACTGGACCCATGTGGCAGGGTCAAGCAACTAGAACATGATTAGAAATCAG
 TGAAAGATACACTTGGACAGGACCAAGAGGCATTTCACTGCCATGAAACAAGGCAGGAAG
 GGATTCTAATACACACACCAGGAAGCACTCCTGCCCTCAGAGGTCAAGGAGCTGATCCT
 ATATTGGTATGAGGAATGGCTTATTTTCTGATGACCACATGTGGGACTATTTCAACCGCC
 ACAAGAAACCCAGAAAGGTTATTGTTTTGTATTATATACTATACTTTTTTAATAAAA
 GTAAATTAACACATAACGAAATTCAGGATTGATCCCAACCTAGAGCCAGATCCTCTGGGG
 TCAGGGAGGAAACAGTTGTCACATCACACGCAGGTTACATTCGTCTTCCACTGGAATGA
 CTAGAGCCCCCAGGCAGTAGGCAGTGACCTGACTGCAGAAGAGCAGAGGACAGACTCCGC
 TCATGGGGACAGACAGGCTCTGTTGCTTCTCCTCACTGGTCATGGCTTANCATGGTTCT
 CCCAAGTCCTTAGTAAACAAAGCACTCGCANAAACCAAGTCACTACTTTTAAACTCTG
 TTGGATAAGGGGAGCTTTTCCATAGCTAGACTGAGAACCTGTGCTCTAGAACTGCTATTC
 TGACTANATGTATGAAAGGAAGTGGGTGCANGCGACAA

Restriction Sites:

NotI-NotI

ACCN:

NM_002629

Insert Size:

1700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_002629.2](#), [NP_002620.1](#)

RefSeq Size: 1762 bp

RefSeq ORF: 765 bp

Locus ID: 5223

UniProt ID: [P18669](#)

Cytogenetics: 10q24.1

Domains: PGAM

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways

Gene Summary: The protein encoded by this gene is a mutase that catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).