

Product datasheet for **SC304977**

Phosphoglucomutase 5 (PGM5) (NM_021965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphoglucomutase 5 (PGM5) (NM_021965) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGM5
Synonyms:	PGMRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

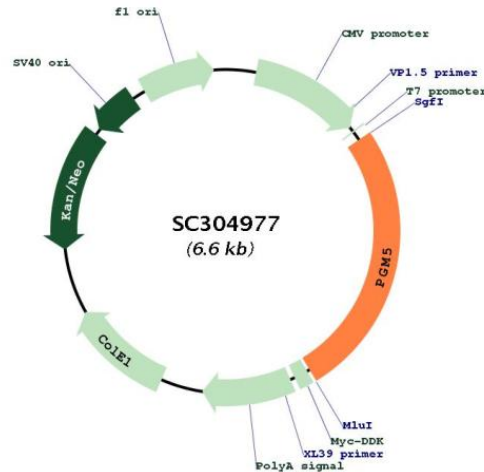


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Fully Sequenced ORF: >SC304977 representing NM_021965.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGGGAGCCCCATCCCGGTGCTGACAGTGCCACCAGCCCTACGAGGACCAGCGCCGGCCGGC
GGCGGGGGTCTGCGGCGACCCACCGCCCTTTTCGAGGGCCAGCGCAACTACCTGCCAACTTTATCCAG
AGCGTGCTGTCGTCATCGACCTGCGCGACCGTCAAGGCTGCACCATGGTGGTGGCAGCGACGGCAGG
TACTTTAGCAGGACGGCCATCGAGATCGTGGTGCAGATGGCCGCGGCCAACGGGATTGGACGACTGATT
ATTGGACAGAATGGCATCTTGTGACACCTGCGGTCTCCTGCATTATCAGGAAGATCAAGGCAGCTGGT
GGAATCATTCTAACAGCCAGCCACTGCCCTGGAGGACCAGGGGAGAGTTTGGAGTGAAGTTAATGTT
GCCAATGGAGGTCTGCACCCGATGTTGTCTCAGACAAAATCTACCAAATCAGCAAAACGATTGAGGAA
TATGCTATATGTCCTGATCTCCGAATCGACCTATCTCGACTAGGAAGACAAGAATTTGACCTAGAAAAC
AAATTCAAACCATTGAGAGTGGAGATAGTGGACCCAGTGGATATCTATCTAACCTCCTTCGGACCATC
TTTGACTTTCATGCCATCAAGGGTTTGTGACTGGACCCAGCCAACTGAAGATTGCAATTGACGCAATG
CACGGAGTTATGGGACCTTATGTGAGAAAAGTTCTGTGTGATGAGCTGGGGGCCCGCCAAATTCGCA
ATAAACTGTGTTCCCTGGAAGACTTTGGAGGGCAGCACCTGACCCAAACCTGACATATGCAACGACT
CTTCTGGAAGCAATGAAAGGAGGAGAATATGGATTTGGAGCTGCATTTGATGCTGATGGGGACCGTTAT
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TCTTGCAATCCATATTTCCGTGAGATGGGGTCCGCGGGTTTGGGAGGAGTATGCCAACCCAGCATGGCC
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AATCTGATGGACTCAGGACGTTGCAATCTGTGTGGGAAGAGAGCTTTGGCACTGGCTCTGACCACCTC
CGAGAGAAGGATGGCCTGTGGCTGTCTTGGTCTGGCTCTCCATTATTGCTGCCCGAAGCAGAGTGTG
GAGGAAAATTGTCGAGATCACTGGGCCAAATTTGGCCGCCACTACTATTGCAGGTTTACTATGAGGGG
TTGGATCCCAAGACGACATATTATATCATGAGGGACCTGGAGGCCCTGGTACAGACAAAATCCTTCATT
GGCCAGCAGTTTGTGTTGGGAGCCATGTCTACAGCGTGGCGAAGACGGATAGTTTTGAATACGTGGAC
CCTGTGGATGGCACTGTGACCAAGAAACAGGGCCTAAGGATCATTTTCTCGGATGCATCACGGCTCATC
TTCCGGCTCAGTTCCTCCAGTGGTGTGCGGGCCACCCTCAGACTGTACGCAGAGAGCTACGAGAGGGAT
CCCAGCGGCCATGACCAGGAGCCACAGGCAGTGTGAGCCCTCTCATAGCCATCGCACTGAAAATATCC
CAGATTCATGAGAGAATGGCCGAGGGGACCCACTGTCATCACCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_021965

Insert Size: 1704 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](#)

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_021965.3
RefSeq Size:	3341 bp
RefSeq ORF:	1704 bp
Locus ID:	5239
UniProt ID:	Q15124
Cytogenetics:	9q21.11
Protein Families:	Druggable Genome
MW:	62.2 kDa
Gene Summary:	Phosphoglucomutases (EC 5.2.2.2.), such as PGM5, are phosphotransferases involved in interconversion of glucose-1-phosphate and glucose-6-phosphate. PGM activity is essential in formation of carbohydrates from glucose-6-phosphate and in formation of glucose-6-phosphate from galactose and glycogen (Edwards et al., 1995 [PubMed 8586438]).[supplied by OMIM, Mar 2008]