

Product datasheet for **RG232979**

PGM3 (NM_001199917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM3 (NM_001199917) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGM3
Synonyms:	AGM1; IMD23; PAGM; PGM 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232979 representing NM_001199917
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGGAGAGTGGGGACAATCTGCTATCTGCCCTGAGTCTGCCCAGGAGTGGACATACCAAGTTGGAC
 AACATCTTGTAGACATGGATTTAGGTGCTATTACAAAATACTCAGCATTACACGCCAAGCCCAATGGACT
 GATCCTTCAATACGGGACTGCTGGATTTGGAACGAAGGCAGAACATCTTGATCATGTCATGTTTCGCATG
 GGATTATTAGCTGCTCCTGAGGTCAAACAGACAAAATCCACTATAGGAGTCATGGTAACAGCGTCCCACA
 ATCCTGAGGAAGACAATGGTGTAAAATTGGTTGATCCTTTGGGTGAAATGTTGGCACCCTCTGGGAGGA
 ACATGCCACCTGTTTAGCAAATGCTGAGGAACAAGATATGCAGAGAGTGTATTGACATCAGCGAGAAA
 GAAGCTGTGAATCTGCAACAAGATGCCTTTGTAGTTATTGGTAGAGATACCAGGCCAGCAGTGAGAAA
 TTTCAAACTGTAAATAGATGGTGTGACTGTTCTAGGAGGTCAATCCATGATTATGGCTTGTTAAACA
 ACCCCAGCTGCACTACATGGTGTATTGTGAAACACGGGTGGCCGATATGAAAGGCAACTATAGAAGGT
 TACTACCAGAAAATCTCTAAGGCTTTTGTGAACTCACCAACAGGCTTCTTGCACTGGAGATGAATACA
 GATCACTTAAGGTTGACTGTGCAATGGCATAGGGGCCCTGAAGCTAAGGAAATGGAACACTACTTCTC
 ACAGGGCCTGTCAGTTCAGCTGTTAATGATGGGTCCAAGGGCAAATCAATCATTTATGTGGAGCTGAC
 TTTGTGAAAAGTCATCAGAACTCCACAGGGAATGGAATTAAGTCCAATGAAAGATGCTGTTCTTTTG
 ATGGAGATGCAGACAGAATTGTTTACTACCATGATGCAGATGGCCACTTTCATCTCATAGATGGAGA
 CAAGATAGCAACGTTAATTAGCAGTTTCCTTAAGAGCTCCTGGTGGAGATTGGAGAAAGTTTGAATATT
 GGTGTTGTACAACTGCATATGCAAATGGAAGTTCAACACGGTATCTTGAAGAAGTTATGAAGGTACCTG
 TCTATGCACTAAGACTGGTGTAAAACATTTGCCACCAAGGCTCAAGAGTTTGACATGGAGTTTATTT
 TGAAGCAAATGGGCATGGCACTGCACTGTTTAGTACAGCTGTTGAAATGAAGATAAAACAATCAGCAGAA
 CAACTGGAAGATAAGAAAAGAAAAGCTGCTAAGATGCTTGAACAATTATTGACTTGTTAACCAGGCAG
 CTGGTGTGCTATTTCTGACATGCTGGTATTGAAGCAATCTGGCTCTGAAGGGCTTGACTGTACAACA
 GTGGGATGCTCTTATACAGATCTTCAAACAGACAACCTAAAGTTTCAAGTTGCAGACAGGAGATTATT
 AGCACTACCGATGCTGAAAGACAAGCAGTTACACCCCAAGGATTACAGGAGGCAATCAATGACCTGGTGA
 AGAAGTACAAGCTTTCTCGAGCTTTGTCCGGCCCTCTGGTACAGAAGATGTCGTCGGAGTATATGCAGA
 AGCAGACTCACAAGAAAGTGCAGATCACCTTGACATGAAGTGAAGTGGCAGTATTTAGCTGGCTGGA
 GGAATTGGAGAAAGGCCCAACAGGTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232979 representing NM_001199917
 Red=Cloning site Green=Tags(s)

MGGEWQSAICPESAQEWTYQVQHLVMDLGAITKYSALHAKPNGLILQYGTAGFRTKAEHLDHVMFRM
 GLLAVLRSKQTKSTIGVMVTASHNPEEDNGVKLVDPLEMLAPSWEHATCLANAEEQDMQRVLIDISEK
 EAVNLQQDAFVVI GRDTRPSSEKLSQSVIDGVTVLGGQFHDYGLLTTPQLHYMVYCRNTGGRYGKATIEG
 YYQKLSKAFVELTKQASCSGDEYRSLKVDCAANGIGALKLREMEHYFSQGLSVQLFNDGSKGLNHLCGAD
 FVKSHQKPPQGM EIKSNERCCSFDGDADRIVYYYHDADGHFHLIDGDKIATLISSFLKELLVEIGESLNI
 GVVQTAYANGSSTRYLEEVKVPVYCTKTGVKHLHHKAQEFDIGVYFEANGHGTLFSTAVEMKIKQSAE
 QLEDKRRKAAMLENIIDL FNQAAGDAISDMLVIEAILALKGLTVQQWDALYTDLPNRQLKVQVADRRVI
 STTDAERQAVTTPGLQEAINDLVKKYKLSRAFVRPSGTEDVVRVYAEADSQESADHLAHEVSLAVFQLAG
 GIGERPQPGF

TRTRPLE – GFP Tag – V

Restriction Sites:

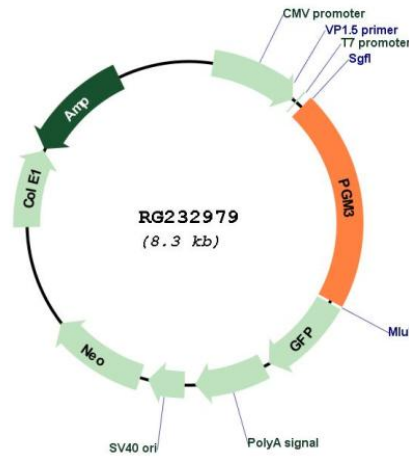
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001199917
ORF Size: 1710 bp

OTI Disclaimer:	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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001199917.2
RefSeq Size:	6243 bp
RefSeq ORF:	1713 bp
Locus ID:	5238
UniProt ID:	O95394
Cytogenetics:	6q14.1
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]