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Product datasheet for RG234449

PGM3 (NM_001199919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM3 (NM_001199919) 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:

>RG234449 representing NM_001199919
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTTAGGTGCTATTACAAAATACTCAGCATTACACGCCAAGCCCAATGGACTGATCCTTCAATACG
GGACTGCTGGATTTCGAACGAAGGCAGAACATCTTGATCATGTCATGTTTCGCATGGGATTATTAGCTGT
CCTGAGGTCAAAACAGACAAAATCCACTATAGGAGTCATGGTAACAGCGTCCCACAATCCTGAGGAAGAC
AATGGTGTAAAATTGGTTGATCCTTTGGGTGAAATGTTGGCACCATCCTGGGAGGAACATGCCACCTGTT
TAGCAAATGCTGAGGAACAAGATATGCAGAGAGTGCTTATTGACATCAGCGAGAAAGAAGCTGTGAATCT
GCAACAAGATGCCTTTGTAGTTATTGGTAGAGATACCAGGCCCAGCAGTGAGAAACTTTCACAATCTGTA
ATAGATGGTGTGACTGTTCTAGGAGGTCAATTCCATGATTATGGCTTGTTAACAACACCCCAGCTGCACT
ACATGGTGTATTGTCGAAACACGGGTGGCCGATATGGAAAGGCAACTATAGAAGGTTACTACCAGAAACT
CTCTAAGGCTTTTGTGGAACTCACCAAACAGGCTTCTTGCAGTGGAGATGAATACAGATCACTTAAGGTT
GACTGTGCAAATGGCATAGGGGCCCTGAAGCTAAGGGAAATGGAACACTACTTCTCACAGGGCCTGTCAG
TTCAGCTGTTTAATGATGGGTCCAAGGGCAAACTCAATCATTTATGTGGAGCTGACTTTGTGAAAAGTCA
TCAGAAACCTCCACAGGGAATGGAAATTAAGTCCAATGAAAGATGCTGTTCTTTTGATGGAGATGCAGAC
AGAATTGTTTATTACTACCATGATGCAGATGGCCACTTTCATCTCATAGATGGAGACAAGATAGCAACGT
TAATTAGCAGTTTCCTTAAAGAGCTCCTGGTGGAGATTGGAGAAAGTTTGAATATTGGTGTTGTACAAAC
TGCATATGCAAATGGAAGTTCAACACGGTATCTTGAAGAAGTTATGAAGGTACCTGTCTATTGCACTAAG
ACTGGTGTAAAACATTTGCACCACAAGGCTCAAGAGTTTGACATTGGAGTTTATTTTGAAGCAAATGGGC
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GAAAAGAAAAGCTGCTAAGATGCTTGAAAACATTATTGACTTGTTTAACCAGGCAGCTGGTGATGCTATT
TCTGACATGCTGGTGATTGAAGCAATCTTGGCTCTGAAGGGCTTGACTGTACAACAGTGGGATGCTCTCT
ATACAGATCTTCCAAACAGACAACTTAAAGTTCAGGTTGCAGACAGGAGAGTTATTAGCACTACCGATGC
TGAAAGACAAGCAGTTACACCCCCAGGATTACAGGAGGCAATCAATGACCTGGTGAAGAAGTACAAGCTT
TCTCGAGCTTTTGTCCGGCCCTCTGGTACAGAAGATGTCGTCCGAGTATATGCAGAAGCAGACTCACAAG
AAAGTGCAGATCACCTTGCACATGAAGTGAGCTTGGCAGTATTTCAGCTGGCTGGAGGAATTGGAGAAAG
GCCCCAACCAGGTTATAAAGCAGCAGAGACAACACACAACATCAACAATGCATTTGGCCCAGGAACTGCT
AATGAACATACAGTGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

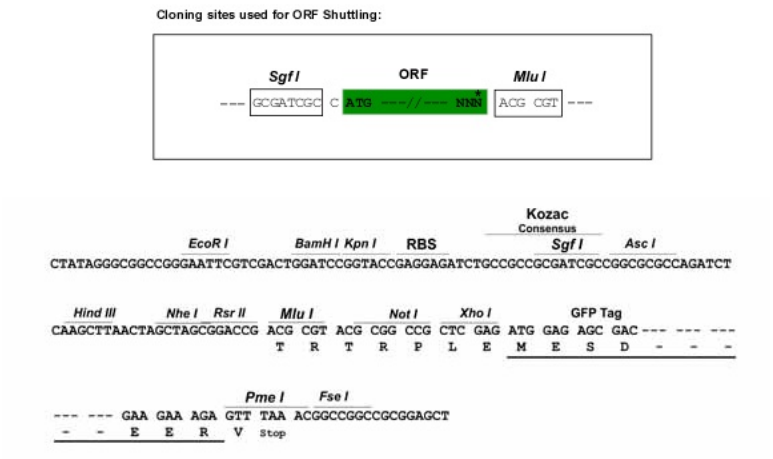
>RG234449 representing NM_001199919
Red=Cloning site Green=Tags(s)

MDLGAITKYSALHAKPNGLILQYGTAGFRTKAEHLDHVMFRMGLLAVLRSKQTKSTIGVMVTASHNPEED
NGVKLVDPLGEMLAPSWEEHATCLANAEEQDMQRVLIDISEKEAVNLQQDAFVVIGRDTRPSSEKLSQSV
IDGVTVLGGQFHDYGLLTTPQLHYMVYCRNTGGRYGKATIEGYYQKLSKAFVELTKQASCSGDEYRSLKV
DCANGIGALKLREMEHYFSQGLSVQLFNDGSKGKLNHLCGADFVKSHQKPPQGMEIKSNERCCSFDGDAD
RIVYYYHDADGHFHLIDGDKIATLISSFLKELLVEIGESLNIGVVQTAYANGSSTRYLEEVMKVPVYCTK
TGVKHLHHKAQEFDIGVYFEANGHGTALFSTAVEMKIKQSAEQLEDKKRKAAKMLENIIDLFNQAAGDAI
SDMLVIEAILALKGLTVQQWDALYTDLPNRQLKVQVADRRVISTTDAERQAVTPPGLQEAINDLVKKYKL
SRAFVRPSGTEDVVRVYAEADSQESADHLAHEVSLAVFQLAGGIGERPQPGYKAAETTHNINNAFGPGTA
NEHTVP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

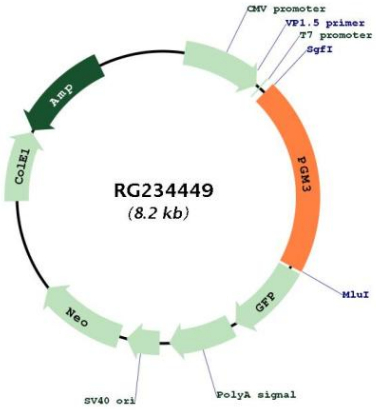


ACCN:	NM_001199919
ORF Size:	1698 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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:	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_001199919.2
RefSeq Size:	2092 bp
RefSeq ORF:	1701 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]

Product images:



Circular map for RG234449