

Product datasheet for **RG238251**

PGM3 (NM_001199918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM3 (NM_001199918) 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)
ORF Nucleotide Sequence:	>RG238251 representing NM_001199918. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTGGCACCATCCTGGGAGGAACATGCCACCTGTTTAGCAAATGCTGAGGAACAAGATATGCAGAGA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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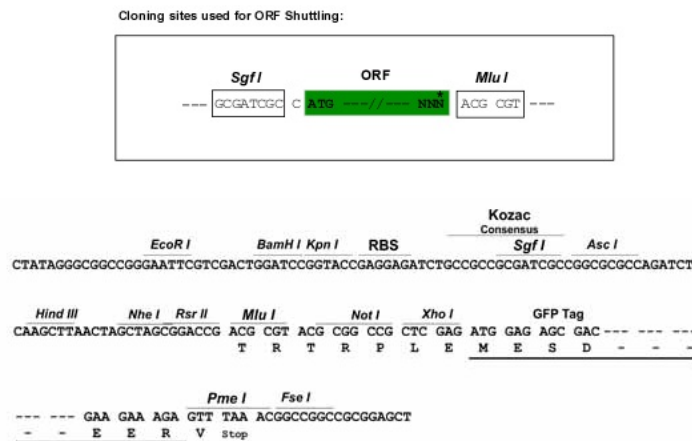
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG238251
 Blue=ORF Red=Cloning site Green=Tag(s)

MLAPSWEEHATCLANAEEQDMQRVLIDISEKEAVNLQQDAFVVIGRDTRPSSEKLSQSVIDGVTVLGGQ
 FHDYGLLTPQLHYMVYCRNTGGRYGKATIEGYQKLSKAFVELTKQASCSGDEYRSLKVCANGIGAL
 KLREMEHYFSQGLSVQLFNDGSKGKLNHLCGADFKVSHQKPPQGMEIKSNERCCSFDDADRIVYYHHD
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 HKAQEFDIGVYFEANGHTALFSTAVEMKIKQSAEQLEDKRRKAAKMLENIIDLFNQAAGDAISDMLVI
 EAILALKGLTVQQWDALYDLPNRQLKVQVADRRVISTTDAERQAVTPPGLQEAINDLVKKYKLSRAFV
 RPSGTEDVVRVYAEADSQVRKCRSPCT
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001199918

ORF Size: 1323 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).

RefSeq: [NM_001199918.2](#)

RefSeq Size: 5905 bp

RefSeq ORF: 1326 bp

Locus ID: 5238

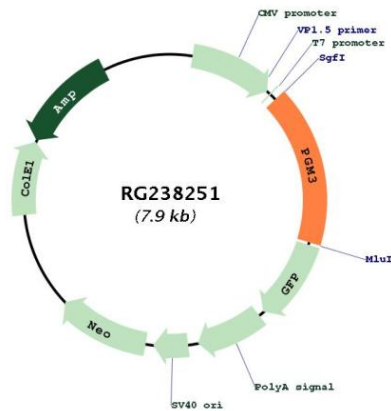
Cytogenetics: 6q14.1

Protein Pathways: Amino sugar and nucleotide sugar metabolism

MW: 49.5 kDa

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 RG238251