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Product datasheet for RC238251

PGM3 (NM_001199918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM3 (NM_001199918) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGM3
Synonyms:	AGM1; IMD23; PAGM; PGM 3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238251 representing NM_001199918 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTGGCACCATCCTGGGAGGAACATGCCACCTGTTTAGCAAATGCTGAGGAACAAGATATGCAGAGAG TGCTTATTGACATCAGCGAGAAAGAAGCTGTGAATCTGCAACAAGATGCCTTTGTAGTTATTGGTAGAGA TACCAGGCCCAGCAGTGAGAAACTTTCACAATCTGTAATAGATGGTGTGACTGTTCTAGGAGGTCAATTC CATGATTATGGCTTGTTAACAACACCCCAGCTGCACTACATGGTGTATTGTCGAAACACGGGTGGCCGAT ATGGAAAGGCAACTATAGAAGGTTACTACCAGAAACTCTCTAAGGCTTTTGTGGAACTCACCAAACAGGC TTCTTGCAGTGGAGATGAATACAGATCACTTAAGGTTGACTGTGCAAATGGCATAGGGGCCCTGAAGCTA AGGGAAATGGAACACTACTTCTCACAGGGCCTGTCAGTTCAGCTGTTTAATGATGGGTCCAAGGGCAAAC TCAATCATTTATGTGGAGCTGACTTTGTGAAAAGTCATCAGAAACCTCCACAGGGAATGGAAATTAAGTC CAATGAAAGATGCTGTTCTTTTGATGGAGATGCAGACAGAATTGTTTATTACTACCATGATGCAGATGGC CACTTTCATCTCATAGATGGAGACAAGATAGCAACGTTAATTAGCAGTTTCCTTAAAGAGCTCCTGGTGG AGATTGGAGAAAGTTTGAATATTGGTGTTGTACAAACTGCATATGCAAATGGAAGTTCAACACGGTATCT TGAAGAAGTTATGAAGGTACCTGTCTATTGCACTAAGACTGGTGTAAAACATTTGCACCACAAGGCTCAA GAGTTTGACATTGGAGTTTATTTTGAAGCAAATGGGCATGGCACTGCACTGTTTAGTACAGCTGTTGAAA TGAAGATAAAACAATCAGCAGAACAACTGGAAGATAAGAAAAGAAAAGCTGCTAAGATGCTTGAAAACAT TATTGACTTGTTTAACCAGGCAGCTGGTGATGCTATTTCTGACATGCTGGTGATTGAAGCAATCTTGGCT CTGAAGGGCTTGACTGTACAACAGTGGGATGCTCTCTATACAGATCTTCCAAACAGACAACTTAAAGTTC AGGTTGCAGACAGGAGAGTTATTAGCACTACCGATGCTGAAAGACAAGCAGTTACACCCCCAGGATTACA GGAGGCAATCAATGACCTGGTGAAGAAGTACAAGCTTTCTCGAGCTTTTGTCCGGCCCTCTGGTACAGAA GATGTCGTCCGAGTATATGCAGAAGCAGACTCACAAGTAAGAAAGTGCAGATCACCTTGCACA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

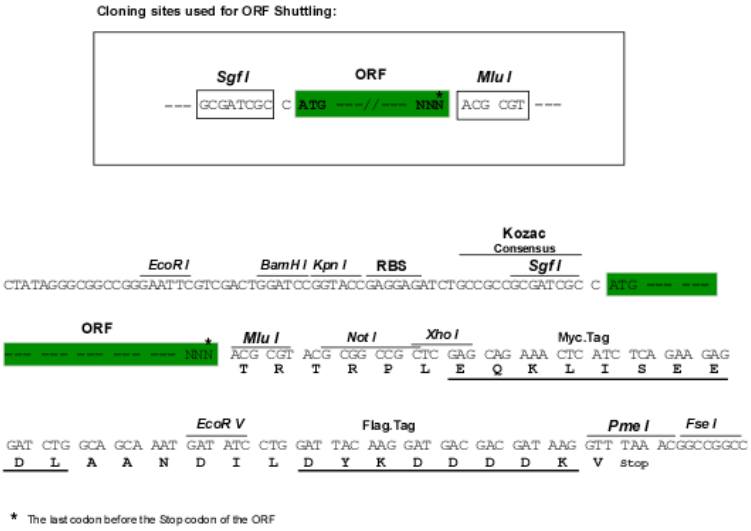
>RC238251 representing NM_001199918
Red=Cloning site Green=Tags(s)

MLAPSWEEHATCLANAEEQDMQRVLIDISEKEAVNLQQDAFVVIGRDTRPSSEKLSQSVIDGVTVLGGQF
HDYGLLTTPQLHYMVYCRNTGGRYGKATIEGYYQKLSKAFVELTKQASCSGDEYRSLKVDCANGIGALKL
REMEHYFSQGLSVQLFNDGSKGKLNHLCGADFVKSHQKPPQGMEIKSNERCCSFDGDADRIVYYYHDADG
HFHLIDGDKIATLISSFLKELLVEIGESLNIGVVQTAYANGSSTRYLEEVMKVPVYCTKTGVKHLHHKAQ
EFDIGVYFEANGHGTALFSTAVEMKIKQSAEQLEDKKRKAAKMLENIIDLFNQAAGDAISDMLVIEAILA
LKGLTVQQWDALYTDLPNRQLKVQVADRRVISTTDAERQAVTPPGLQEAINDLVKKYKLSRAFVRPSGTE
DVVRVYAEADSQVRKCRSPCT

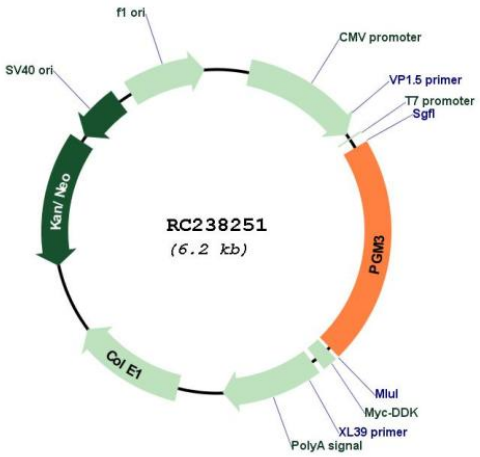
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]