

Product datasheet for **MR218001**

Pgm3 (NM_028352) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgm3 (NM_028352) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgm3
Synonyms:	2810473H05Rik; Agm1; BB187688; C77933; PAGM; Pgm-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218001 representing NM_028352
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTGGAGGCTGTGTGTAAGCGCTCGGCACTCCATGCCAAGCCCCAGGGGCTCATTCTTCAGTATG
 GGACTGCTGGATTTCGGACCAATGCCAGCATCTCGATCATATCATGTTTCGAATGGATTGCTAGCTGT
 CCTGCGGTCAAAGCAAACAAGATCTACCATTGGAGTCATGGTTACGGCCTCACATAACCCCTGAGGAAGAC
 AATGGTGTGAAATTGGTTGATCCTTTGGGGGAAATGTTGGCCCTTCCTGGGAGGAGCATGCCACCTGTC
 TGGCCAGTGGGAGGAGCAGGACGTGGCGCAAGTCTTGTGCCATCGTGGAGAAAGAAGCTGTGGATCT
 GACACAGACCGCCTTCGTAGTCATTGCCAGAGACACCAGGCCAGCAGTGAGAACTTTCACAATCTGTG
 ATAGATGGCGTGACTGTTTTAGGAGTCAATCCATGATTACGGCCTGTTGACGACACCTCAGTTGCACT
 ACATGGTGTATTGCCGAATCCGGAGGCCGGTATGGACAGGCCACCGTAGAAGGCTACTGCCAGAAGCT
 CTCCAAGCTTTCTAGACCTTACGAATCAGGTTTCTGCAGTGGAGATGTAAGAGGTCAGTTAAGGTT
 GACTGTGCCAACGGCATAGGGCCCTTGAAGCTAAGAGAAATGGAACACTACTTCTCCCGGGCCTGTCCG
 TTCTGCTGTTAATGATGGGACCAAGGGCGGCTCAATCACCTGTGCGGTGCTGACTTTGTGAAAAGTCA
 ACAGAAACCCCCACAGGGAATTGAAATGAAGTCCGGTGAGAGATGCTGCTCCTTCGATGGGGATGCGGAC
 AGGATCGTGTATTACTACTGTGATGCAGATGGTCACTTTCATCTCATAGATGGAGACAAGATAGCGACGT
 TAATTAGCAGTTTCCTTAAAGAGCTACTGTTGGAGATTGGAGAAAGTGTGAACCTCGGAGTCGTACAGAC
 AGCATATGCAAAATGGAAGTTCACGCGGTACCTTGAAGAAGTTATGAAGGTACCTGTGTATTGCACAAA
 ACTGGTGTAAACATTTGCATCACAAGGCTCAAGAGTTGACATCGGAGTTTATTTTGAAGCGAACGGGC
 ATGGAACAGCACTGTTTCAGTGAAGCAGTTGAAGTGAAGTAAAAAGACTAGCCCAAGAAGTACAGCATGG
 AAAAGGAAAAGCAGCCAGGACGCTTGCAGCATCATCGACTTATTCAACCAGGCAGCTGGAGATGCTATT
 TCTGACATGTTGGTGATTGAGGCTATCCTGGCTCTGAAGGGGCTGACTGTACAGCAGTGGGATGCTATTT
 ATGTCGATCTTCTAACAGACAACCTCAAAGTAAAGTTCGCGGACAGGAGATTATTAGCACCACGGATGC
 TGAGAGACAAGCAGTCACTCCACCAGGACTCCAAGAGGCAATCAATGACCTGGTGAAGAAAATACACACTT
 GCCCGAGCTTTTGTACGGCCCTCTGGTACTGAAGACATTGTCCGAGTATATGCAGAAGCCAACTCACAAG
 AAAGCGCAGACAGGCTTGCCTATGAAGTGAAGTTGCTGGTGTCCAGCTGGCTGGAGGCATTGGAGAAAG
 ACCACAACCAACTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218001 representing NM_028352
 Red=Cloning site Green=Tags(s)

MDLEAVCKRSALHAKPQGLILQYGTAGFRNTAQHLDHIMFRMGLLAVLRSKQTRSTIGVMVTASHNPEED
 NGVKLVDPLEMLAPSWEHATCLASAEQDVRQVLAATIVEKEAVDLTQAFVVIARDTRPSSEKLSQSV
 IDGVTVLGGQFHQDYGLLTPQLHYMVYCRNSGGRYGQATVEGYCQKLSKAFVDLTNQVSCSGDVKRSVKV
 DCANGIGALKLREMEHYFSRGLSVLLFNDGTQGRLNHLGADDFVKSQKPPQGIEMKSGERCCSFDGDAD
 RIYYYYCDADGFHLLIDGDKIATLISSFLKELLLEIGESVNLGVVQTAYANGSSTRYLEEVMKVPYCTK
 TGVKHLHHKAQEFDIGVYFEANGHTALFSEAVEVKIKRLAQELDDGKGAARTLASIIDLFNQAAGDAI
 SDMLVIEAILALKGLTVQQWDAIYVDLPNRQLKVKVADRRVISTTDAERQAVTPPLQEAINDLVKKYTL
 ARAFVRPSGTEDIVRVYAEANSQESADRLAYEVSLLVFQLAGGIGERPQPTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

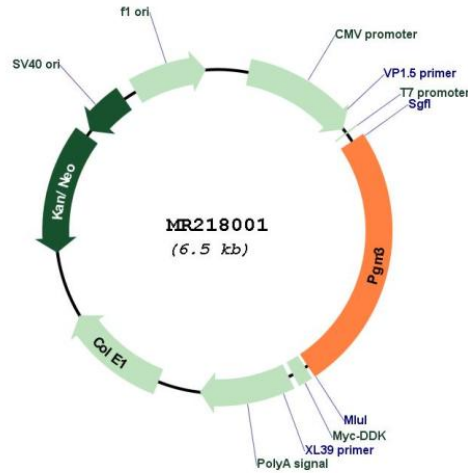
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_028352
ORF Size:	1626 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_028352.4 , NP_082628.3
RefSeq Size:	4582 bp
RefSeq ORF:	1629 bp
Locus ID:	109785
UniProt ID:	Q9CYR6
Cytogenetics:	9 46.58 cM
MW:	59.9 kDa
Gene Summary:	Catalyzes the conversion of GlcNAc-6-P into GlcNAc-1-P during the synthesis of uridine diphosphate/UDP-GlcNAc, a sugar nucleotide critical to multiple glycosylation pathways including protein N- and O-glycosylation.[UniProtKB/Swiss-Prot Function]