

Product datasheet for **MG209490**

Pgm1 (NM_025700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgm1 (NM_025700) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgm1
Synonyms:	3230402E02Rik; Pgm-1; Pgm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209490 representing NM_025700
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCGACACCGACAGAGACACCGGCTCCGGAAGGCAGTGGCTTGGGTATGGACGCGCAGTGG
 ACCAGGAGACCGCGCAGTGGCTGCGTTGGGACCAGAACCCTTTAACCTCTGAGTCAGTGAACAGCTCAT
 TGCTGGAGGTAATAAAGAAGAGCTGCGGAAATGCTTTGGGGCCCGATGGAGTTTGGGACAGCTGGCCTT
 CGAGCGCCTATGGGAGCAGGGATTTCTCGAATGAATGACCTGACCATCATCCAGACCACACAGGGATTTT
 GCAGGTACCTGAAAAGCAGTTCAGTGACCTGAAGCAGAGGGGCGTGGTATCAGCTTCGATGCGAGAGC
 TCACCCCGCCAGCGGGGCGCAGCCGGAGGTTTGCCCGCTGGCTGCGACTGCATTTATCACCCAGGGT
 GTTCTGTATACCTCTTCTGTATATAACCCACCCCTTTGTGCCGTACCCGTGTCGACCTGAAAC
 TCTGCGCAGGCATCATGATCACTGCCTCGACAATCAAAGCAGGACAATGGCTATAAGGTCTACTGGGA
 CAACGGAGCTCAGATCATCTCTCCACGATCGCGGCATTTCTCAGGCCATTGAGGAAAACTAGAGCCC
 TGGCCTCAGGCTTGGGAGGAGTCTTTGGTTGACAGTAGTCCCCTTCTTCAACAACCCAGCGCGTCCATCG
 GTAATGACTACTTTGAAGACCTTAAAAAATACTGTTTTACAGGACAGTGAACAAGGAGAGCAAGGTGAA
 GTTCGTGCACACCTCTGTCCATGGTGTGGGCCATGAGTTTGTGCAGTTGGCCTTCAAGGCTTTTGACCTT
 GCTCCTCCGAAGCTGTTCCCAACAGAAAAGATCCGGATCCCAGTTCCTCAACTGTCAAATACCCGAATC
 CTGAGGAGGGCAAAGGTGCTTGACTTTATCTTTTGCCTTGGCTGACAAAATCAAGGCCAAAATCGTCTT
 AGCCAATGACCCAGATGCTGACAGGCTCGCTGTGGCTGAGAAGCAAGACAGTGGTGTGAGTGGAGAGTTC
 TCAGGCAATGAGCTGGGGCCCTGCTGGGATGGTGGCTCTTCACTTCTGAAAGAAAAGAACAAGATC
 AAAGTAACCTCAAAGACACATACATGCTGTCCAGCACTGTTTCTCCTCAAAAATCTGCGGGCCATAGCCCT
 GAAGGAAGGCTTTCATTTTCGAGGAAACATTAACCGGCTTCAAGTGGATGGGAAACAGAGCCCAACAGCTC
 GGAGACCAGGGGAAAACAGTCTATTTGCAATTTGAAGAAGCTATCGGATACATGTCTGTCCCTTTGTTT
 TGGACAAAGATGGCGTCAGTGTCTGTTATTTGTGCAGAGCTGGCGAGCTTTCTAGCAACGAAGAATTT
 GTCTTTATCTCAGCAGCTAAATGCCATCTATGTGGAGTACGGCTATCATATTACCACAGCTTCATATTTT
 ATCTGCCATGATCAGGGCACAATTCAAAATTTATTTGGAAACCTGAGAACTATGACGGGAAGAATAATT
 ATCCAAAATGTGTGGCAAGTTTGAATCTCTGCTATCAGGGACCTTACAACCTGGCTATGATGATAGCCA
 GCCTGACAAGAAAGCTGTTCTTCTACCAGTAAGAGCAGCCAAATGATCACCTTACCTTTGCTAATGGA
 GGTGTGGCCACCATGCGGACCAGTGGGACTGAGCCAAAATCAAGTACTACGCAGAGTTGTGTGCTCCCC
 CTGGCAACAGTGATCCGGAGCATCTGAAAAGGAACTGGATGAGTTAGTCGGTGCCATTGAAGAACATTT
 TTTCCAGCCACAAAATATAACCTACAGCCAAAAGCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209490 representing NM_025700
 Red=Cloning site Green=Tags(s)

MAAATPTETPAPEGSLGMDARLDQETAQWLRWDQNPLTSESVKQLIAGGNKEELRKCFCGARMFETAGL
 RAPMGAGISRMDLTIITTTQGFQRYLEKQFSDLKQRGVVISFDARAHPASGGSSRRFARLAATAFITQG
 VPVYLFSDITPTFPVPTVSHLKLKAGIMITASHNPKQDNGYKVVWDNGAQIISPHDRGISQAIENLEP
 WPQAWEEESLVDSSPLLHNPSASIGNDYFEDLKKYCFHRTVNKESKVKFVHTSVHGVGHEFVQLAFKAFDL
 APPEAVPQQKDPDFEPTVKYPNPEEGKVLTLFALADKIKAKIVLANDPDADRLAVAQKDSGEWRVF
 SGNELGALLGWLFTSWKEKNQDQSNLKDYMLSSTVSSKILRAIALKEGFHFEETLTGFKWMGNRAQQL
 GDQKTVLFAFEEAIGYMCCPFVLDKDGVSAAVICAELASFLATKNLSLSQLNAIYVEYGYHITTAASYF
 ICHDQGTIQNLFNLRNYDGKNNYPKMGKFEISAIRDLTTGYDDSQPKKAVLPTSKSSQMITFTTFANG
 GVATMRTSGTEPKIKYYAELCAPPGNSDPEHLKKEDELVGAIEEHFFQPQKYNLQPKAE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_025700

ORF Size: 1860 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_025700.1](#)

RefSeq Size: 2179 bp

RefSeq ORF: 1863 bp

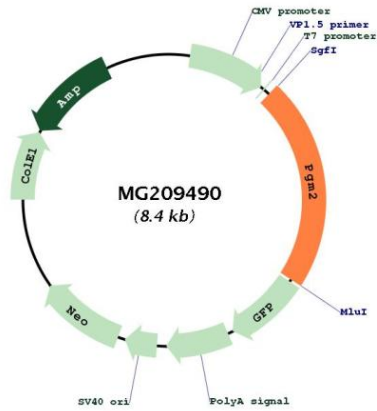
Locus ID: 66681

UniProt ID: [Q7TSV4](#)

Cytogenetics: 5 32.8 cM

Gene Summary: Catalyzes the conversion of the nucleoside breakdown products ribose-1-phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses. May also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. Has low glucose 1,6-bisphosphate synthase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209490