

Product datasheet for **MR209490**

Pgm1 (NM_025700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgm1 (NM_025700) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgm1
Synonyms:	3230402E02Rik; Pgm-1; Pgm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209490 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGACACCGACAGAGACACCGGCTCCGGAAGGCAGTGGCTTGGGTATGGACGCGGACTGG
 ACCAGGAGACCGCGCAGTGGCTGCGTTGGGACCAGAACCCTTTAACCTCTGAGTCAGTGAACAGCTCAT
 TGCTGGAGGTAATAAAGAAGAGCTGCGGAAATGCTTTGGGGCCCGATGGAGTTTGGGACAGCTGGCCTT
 CGAGCGCTATGGGAGCAGGGATTTCTCGAATGAATGACCTGACCATCATCCAGACCACACAGGGATTTT
 GCAGGTACCTGAAAAGCAGTTCAGTGACCTGAAGCAGAGGGGCGTGGTATCAGCTTCGATGCGAGAGC
 TCACCCCGCCAGCGGGGCGAGCAGCCGGAGTTTGCCCGCTGGCTGCGACTGCATTTATCACCCAGGGT
 GTTCTGTATACCTCTTCTGTATATAACCCCAACCCCTTTGTGCCGTACCCGTGTCGACCTGAAAC
 TCTGCGCAGGCATCATGATCACTGCCTCGACAATCAAAGCAGGACAATGGCTATAAGGTCTACTGGGA
 CAACGGAGCTCAGATCATCTCTCCACGATCGCGGCATTTCTCAGGCCATTGAGGAAAACTAGAGCCC
 TGGCCTCAGGCTTGGGAGGAGTCTTTGGTTGACAGTAGTCCCCTTCTTCAACAACCCAGCGCGTCCATCG
 GTAATGACTACTTTGAAGACCTTAAAAATACTGTTTTACAGGACAGTGAACAAGGAGAGCAAGGTGAA
 GTTCGTGCACACCTCTGTCCATGGTGTGGGCCATGAGTTTGTGCAGTTGGCCTTCAAGGCTTTTGACCTT
 GCTCCTCCCGAAGCTGTTCCCAACAGAAAAGATCCGGATCCCAGTTCCTCAACTGTCAAATACCCGAATC
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 AGCCAATGACCCAGATGCTGACAGGCTCGCTGTGGCTGAGAAGCAAGACAGTGGTGTGAGTGGAGAGTTC
 TCAGGCAATGAGCTGGGGCCCTGCTGGGATGGTGGCTTCACTTCTGAAAAGAAAAGAACCAAGATC
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 GAAGGAAGGCTTTCATTTTCGAGGAAACATTAACCGGCTTCAAGTGGATGGAAAACAGAGCCCAACAGCTC
 GGAGACCAGGGGAAAACAGTCTATTTGCAATTTGAAGAAGCTATCGGATACATGTCTGTCCCTTTGTTT
 TGGACAAAGATGGCGTCAGTGTCTGTTATTTGTGCAGAGCTGGCGAGCTTTCTAGCAACGAAGAATTT
 GTCTTTATCTCAGCAGCTAAATGCCATCTATGTGGAGTACGGCTATCATATTACCACAGCTTCATATTTT
 ATCTGCCATGATCAGGGCACAATTCAAAACCTATTTGGAAACCTGAGAACTATGACGGGAAGAATAATT
 ATCCAAAATGTGTGGCAAGTTTGAATCTCTGCTATCAGGGACCTTACAACCTGGCTATGATGATAGCCA
 GCCTGACAAGAAAGCTGTTCTTCTACCAGTAAGAGCAGCCAAATGATCACCTTACCTTTGCTAATGGA
 GGTGTGGCCACCATGCGGACCAGTGGGACTGAGCCAAAATCAAGTACTACGCAGAGTTGTGTGCTCCCC
 CTGGCAACAGTGATCCGGAGCATCTGAAAAGGAACTGGATGAGTTAGTCGGTGCCATTGAAGAACATTT
 TTTCCAGCCACAAAATATAACCTACAGCCAAAAGCAGAA

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

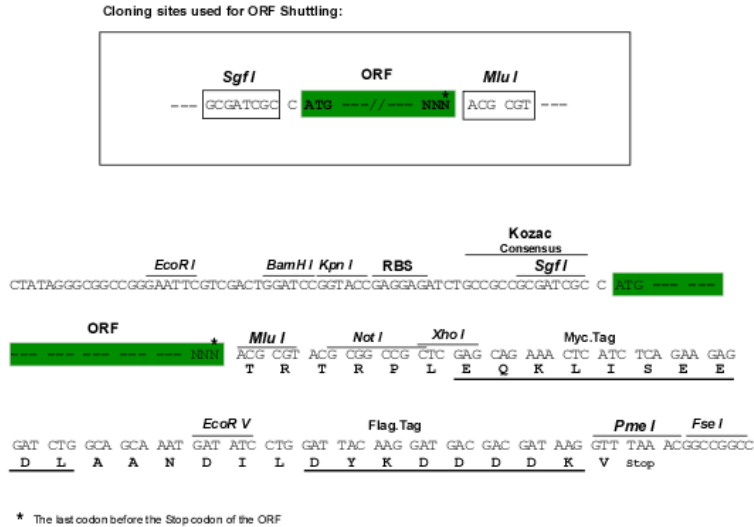
>MR209490 protein sequence
 Red=Cloning site Green=Tags(s)

MAAATPTETPAPEGSLGMDARLDQETAQWL RWDQNPLTSESVKQLIAGGNKEELRKCFGARMEFAGTGL
 RAPMGAGISRMDLTIIQTTQGF CRYLEKQFSDLKQRGVVISFDARAHPASGGSSRRFARLAATAFITQG
 VPVYLFSDITPTFPVYTVSHLKL CAGIMITASHNPKQDNGYKVVWDNGAQIISPHDRGISQAI EENLEP
 WPQAWEE SLVDSSPLLHNP SASIGNDYFEDLKKYCFHRTVNKESKVKFVHTSVHGVGHEFVQLAFKAFDL
 APPEAVPQQKDPDPEFPTVKYPNPEEGKVL TLSFALADKIKAKIVLANDPADRLAVA EKQDSGEWRVF
 SGNELGALLGWLFTSWKEKNQDQSNL KDTYMLSSTVSSKILRAIALKEGFHFEETLTGFKWMGNRAQQL
 GDQGKTVLFAFEEAIGYMCCPFVLDKDGVSAAVICAELASFLATKNLSLSQLNAIYVEYGYHIT TASYF
 ICHDQGTIQNLFGNLRNYDGKNNYPKMGKFEISAIRDLTTGYDSDQPKKAVLPTSKSSQMITFTFANG
 GVATMRTSGTEPKIKYYAELCAPPGNSDPEHLKKEDEL VGAIEEHFFQPQKYNLQPKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025700

ORF Size: 1863 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

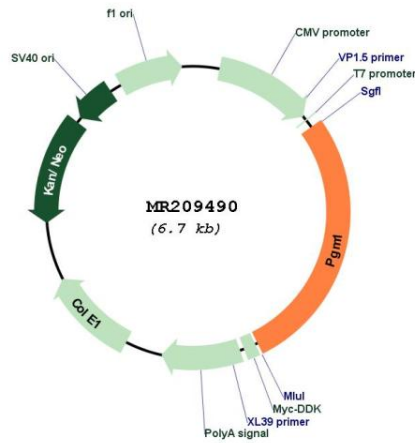
UniProt ID: [Q7TSV4](#)

Cytogenetics: 5 32.8 cM

MW: 68.7 kDa

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 MR209490