

## Product datasheet for **MR208909**

### **Pgm2 (NM\_028132) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pgm2 (NM_028132) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgm2
Synonyms:	2610020G18Rik; AA407108; AI098105; Pgm-2; Pgm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208909 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAAGATCGTGACAGTGAAGACGCAGGCATATCCGGATCAGAAGCCGGGCACCAGCGGATTGCGGA  
 AGCGAGTGAAGGTTTTCCAGAGCAACGCCAACTATGCGGAGAATTCATCCAGAGCATCGTCTACCGT  
 GGAGCCGGCGCTGAGGCAGGAGGCCACGCTGGTTGTGGCGGGGACGGCCGCTTCTACATGACCGAGGCC  
 ATCCAGCTCATCGTACGCATCGCTGCAGCCAACGGGATTGGTCGCCTGGTTATTGGGCAGAATGGAATCC  
 TCTCCACCCCTGCCGTATCTTGATCATCCGAAAAATCAAAGCCATTGGTGGGATCATTCTGACAGCCAG  
 CCATAATCCAGGAGGGCCAATGGAGATTTTGAATTAATTTCAATATTTCTAATGGGGTCTGCTCCA  
 GAAGCAACTACTGATAAAATTTCCAAATCAGCAAGACAATCGAAGAATATGCCATTTGCCCTGACTTGA  
 AGGTAGACCTCCGTGTTCTGGAAAGCAGCAGTTTGACTTGGAAAACAAGTTCAAGCCCTTCACAGTGGA  
 GATTGTGGACTCAGTGGAGGCCATGCCACAATGCTGAGAAACATCTTCGATTTCAAGCCTGAAGGAG  
 CTAATCTCTGGTCCAAACAGACTGAAGATCCGCATAGACGCCATGCACGGAGTTGTGGGACCGTACGTAA  
 AGAAGATCCTCTGTGAAGAACTTGGTGCCTGCAAACTCAGCTGTGAACTGTGTCCCTGGAGGATT  
 TGGAGGCCACCATCCCGACCCCAATCTCACCTATGCTGCTGACCTAGTGGAGACCATGAAGTCAGGAGAG  
 CATGATTTGCGGGCTGCCTTTGATGGTACGGGGATCGAAACATGATTCTGGGCAAGCACGGGTTCTTTG  
 TGAATCCTTCTGACTCTGTGGCTGTATCGCTGCCAACATCTTCAGCATTCCGACTTCCAGCAGACCGG  
 GGTCCGTGGCTTTCACGCAGCATGCCACAAGTGGTCTCTGGACCGGTAGCAATGCCACAAAGATC  
 GCTTTGTATGAGACCCCAACTGGCTGGAAGTTTTTTGGGAATTTGATGGATGCAAGCAAGCTGCTCCTCT  
 GTGGAGGAGAGACTTTGGGACCGGTTCCGACCATATCCGAGAGAAAGATGGACTGTGGCCGCTCGTGGC  
 CTGGCTCTCCATTCTGGCCACCCGCAAAACAGAGCGTGGAGGACATCCTCAAAGACCCTGGCAGAAGTTT  
 GGTCCGAACTTCTTTACCAGGTATGACTACGAGGAGGTGGAAGCTGAGGGTGCAAAACAAAATGATGAAGG  
 ACCTGGAGGCCCTGATGCTGGACCGCTCCTTTGTGGGGAAGCAGTTCTCAGCAAATGATAAAGTCTACAC  
 TGTGGAGAAAGCGGATAACTTTGAATATAGTGACCCAGTAGAGGAAAGCATTTCAAAAATCAGGGCTTG  
 CGGCTATTTTTGCAGATGGTTCTCGTATCATCTTCAGACTGAGTGGCACCAGGAGTGCAGGGGCTACCA  
 TCCGGCTGATATTGATAGCTACGAGAAGGACGTTGCCAAGATCAACCAGGACCCCAAGGTGATGCTGGC  
 GCCCTGATCTCCATTGCTCTGAAAGTGTCCAGCTCCAGGAGAGGACGGGTCCGACTGCGCCCACTGTC  
 ATCACC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208909 protein sequence  
 Red=Cloning site Green=Tags(s)

MVKIVTVKQAYPDQKPGTSGLRKRKVKVFQSNANYAENFIQSIVSTVEPALRQEATLVVGGDRFYMTEA  
 IQLIVRIAANGIGRLVIGQNGILSTPAVSCIIRKIKAIIGGIILTASHNPGGPNDFGIKFNISNGGPAP  
 EAITDKIFQISKIIEEYAIKPDVKVLDLRLGKQQFDLENKFKPFTVEIVDSVEAYATMLRNIFDFNALKE  
 LLSGPNRLKIRIDAMHGTVVYPYVKILCEELGAPANSVNCVPLEDFGGHHPDNLTYAADLVETMKS  
 HDFGAADFDDGDRNMILGKHGFFVNPSSVAVIAANIFSIPIYFQQTGVRGFARSMPTSGALDRVANATKI  
 ALYETPTGWKFFGNLMDASKLSLCGEESFGTSDHIREKDGLWAVLAWLSILATRKQSVEDILKDHQKF  
 GRNFFTRYDYEEVEAEGANKMMKDLEALMLDRSFVKGQFSANDKVYTTVEKADNFEYSDPVDGSIKQGL  
 RLIFADGSRIIFRLSGTGSAGATIRLYIDSYEKDVAKINQDPQVMLAPLISIALKVSQQLQERTGRTAPT  
 YIT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_028132

ORF Size: 1689 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

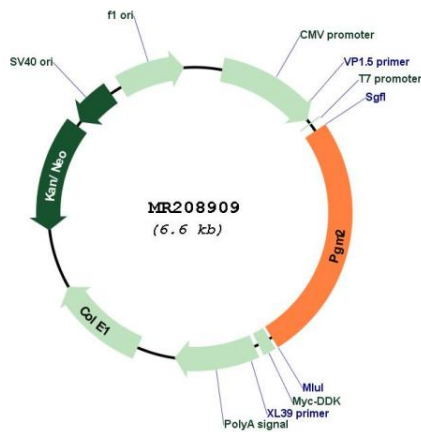
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_028132.2, NP_082408.2</u>
RefSeq Size:	2334 bp
RefSeq ORF:	1689 bp
Locus ID:	72157
UniProt ID:	<u>Q9D0F9</u>
Cytogenetics:	4 45.71 cM
MW:	61.5 kDa
Gene Summary:	This enzyme participates in both the breakdown and synthesis of glucose.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208909