

## Product datasheet for MR203262

### Pgam1 (NM\_023418) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pgam1 (NM\_023418) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pgam1  
**Synonyms:** 2310050F24Rik; Pgam-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR203262 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCCTACAAGCTGGTGTGATCCGGCATGGCGAGAGCGCCTGGAACCTGGAGAACCGTTACGG  
GCTGGTACGACGCCGACCTGAGCCCGCGGGCCACGAGGAGGCGAAGCGCGGGCAGGCGTTGCGAGA  
TGCTGGCTATGAATTTGACATCTGCTTACCTCTGTGCAGAAGAGAGCAATCCGGACCTCTGGACAGTC  
CTGGATGCCATTGACCAGATGTGGTTGCCAGTGGTCAGGACTTGGCGCCTCAATGAGCGACACTATGGCG  
GTCTGACAGGTCTCAACAAAGCAGAACTGCTGCTAAGCATGGTGAGGCCAGGTAAGATCTGGAGACG  
ATCTTATGATGTCCACCGCCTCCCATGGAGCCTGATCACCCCTTCTACAGCAACATCAGCAAGGATCGC  
AGGTACGCAGACCTTACTGAAGACCAGTCCCTCCTGTGAGAGCCTGAAGGACACTATTGCCAGAGCAC  
TGCCCTTCTGGAATGAAGAAATTGCCCCAGATCAAAGAGGGGAAAAGGGTCTTGATTGCCGCCACGG  
CAACAGCCTTCGGGGTATCGTTAAGCATCTGGAGGGTCTCTCAGAAGAGGCCATCATGGAGCTGAACCTG  
CCCACGGGCATCCCTATCGTCTATGAACTGGACAAGAATTGAAGCCATCAAGCCCATGCGATTCCTGG  
GAGACGAGGAGACCGTGCCAAAGCCATGGAAGCTGTGGCTGCTCAGGGCAAGGTGAAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203262 protein sequence  
Red=Cloning site Green=Tags(s)

MAAYKLVLI RHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTV  
 LDAIDQMWLPVVRTWRLNERHYGGLTGLNKAETA AKHGEAQVKIWRRSYDVPPPPMEPDHPFYSNISKDR  
 RYADLTEDQLPSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNL  
 PTGIPIVVELDKNLKPIKPMQFLGDEETVRKAMEAVAAQGVKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_023418

**ORF Size:** 765 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\\_023418.1](#), [NM\\_023418.2](#), [NP\\_075907.2](#)

**RefSeq Size:** 1855 bp

**RefSeq ORF:** 765 bp

**Locus ID:** 18648

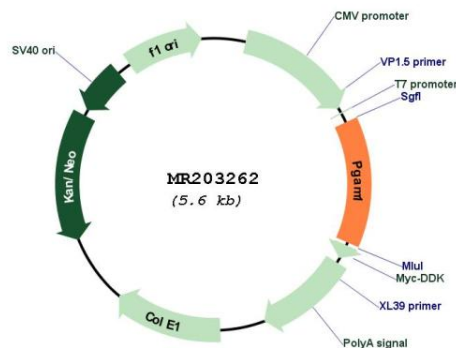
**UniProt ID:** [Q9DBJ1](#)

**Cytogenetics:** 19 C3

**MW:** 28.8 kDa

**Gene Summary:** Interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase), but with a reduced activity.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203262