

## Product datasheet for **MR207197**

### **Pgm2l1 (BC032150) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pgm2l1 (BC032150) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgm2l1
Synonyms:	4931406N15Rik; AI553438; BM32A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207197 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATTACTGCATCTCATAACCCGAAAGAGGACAACGGTACAAGGTTTATTGGGAACTGGTGCTCAAA  
 TCACATCTCCACATGATAAAGAAATTCGAAATGTATAGAAGAGTGTGTGGAACCTGGAATGATTCTTG  
 GAATGATAATTTAGTGGACACCAGCCACTGAAGAAAGATCCTCTGCAGGACATTTGCAAGAAATACATG  
 GAAGATCTGAAGAAGATCTGTTTTACAGGGACTTAAATCAAAGACCACCTTGAATTTGTTACACCT  
 CCTTCCATGGAGTTGGACATGACTACGTGCAGTTGGCTTTTCAAGTATTTGGTTTTAAGCCTCCAATTCC  
 AGTCCCAGAACAGAAAGATCCAGATCCAGACTTTTCTACTGTTAAATGTCCAAACCTGAAGAAGGAGAA  
 TCTGTGCTGGAAGTGTCCCTGAGACTGGCAGAGAAAGAAATGCCCGGATAGTGTAGCCACAGATCCTG  
 ATGCCGACCGGCTGGCTGTGGCAGAACTCAGGAGAATGGCCGTTGAAAGTTTTACAGGAAATGAGCT  
 GGCAGCTTTGTTGGGTGGTGGATGTTTGATTGCTGGAAGAAAAACAAACCAAACCCGATGTGAAGAAT  
 GTTTACATGCTAGCCACCACTGTCTCTTCTAAAATTTTAAAGGCAATTGCACTTAAAGAAGGATTTATT  
 TTGAAGAAACATTACCAGGCTTTAAATGGATTGGAAGTAGGATAAAAGACCTCCTAGGAAATGGAAGA  
 AGTCTTTTTGCAATTTGAAGAGTCTATTGGCTTTCTGTGTGGAACCTCCGTGTTGGACAAAGATGGAGTG  
 AGTGCAGCTGCTGTTGTTGCTGAGATGGCTCTTCTGGATACCAGGAAGGTAACACTGATGGAGCAAC  
 TGACAAAAGTGTATGAAATATACGGTTACCATATGTCCAAAACCTCATATTTCTGTGTTATGATCCACC  
 TACCATCAAACCATATTTGAAAGGATTCGAAATTTGAGTCTCCAAAGGAATATCCAAAATTTGTGGG  
 GCTTTTGTATTTGATGTACGGGACATAACCACTGGATATGATAGCAGCCAGCCAAATAAGAAATCAG  
 TACTGCCTGTGAGTAAAAACAGCCAAATGATTACATTTACCTTCCAAAACGGCTGTGCTACTCTCCG  
 AACAAAGTGGGACAGAACCGAAGATAAAGTATTATGCAGAGATGTGTGCATCGCCTGGCCAGAGTGCACT  
 ACCTTCTGGAAGAAGAAATTAAGAAACTCATTGACGCGCTGATAGAGAATTTTCTTGAGCCAGTAAGA  
 ACGCACTGGTCTGGCGCTCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207197 protein sequence  
 Red=Cloning site Green=Tags(s)

MITASHNRKEDNGYKVYWETGAQITSPHDKEILKCIIECVEPWNSWVNDNLVDTSPKKDPLQDICKKYM  
 EDLKKICFYRDLNSKTTLKFVHTSFHGVGHYVQLAFQVFGFKPPIPVEQKDPDPDFSTVKCPNPEEGE  
 SVLELSLRLAEKENARIVLATDPDADRLAVAELQENGRWKVFTGNELAAALFGWWMFDCWKNKPNADVKN  
 VYMLATTVSSKILKAIALKKEGFHFEETLPGFKWIGSRIKDLLGNGKEVLFAFEESIGFLCGTSVLDKDG  
 SAAAVVAEMASFLDRKVTLMQLTKVYEIYGYHMSKTSYFLCYDPPTIKTIFERIRNFESPKYKFCG  
 AFAILHVRDITTYDSSQPNKKSVPVSKNSQMITFTFQNGCVATLRTSGTEPKIKYYAEMCASPGQSDT  
 TFLLEEELKKLIDALIENFLEPSKNALVWRSV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: BC032150

ORF Size: 1353 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: [BC032150](#), [AAH32150](#)

RefSeq Size: 1927 bp

RefSeq ORF: 1355 bp

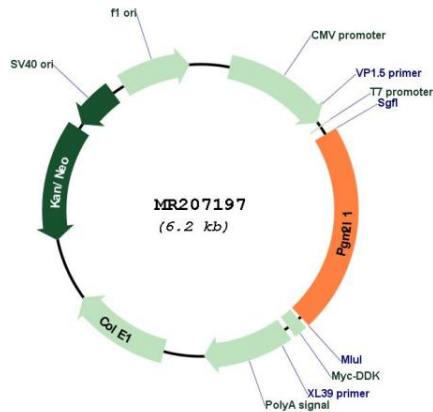
Locus ID: 70974

Cytogenetics: 7 E2

MW: 51.2 kDa

Gene Summary: Glucose 1,6-bisphosphate synthase using 1,3-bisphosphoglycerate as a phosphate donor and a series of 1-phosphate sugars as acceptors, including glucose 1-phosphate, mannose 1-phosphate, ribose 1-phosphate and deoxyribose 1-phosphate. 5 or 6-phosphosugars are bad substrates, with the exception of glucose 6-phosphate. Also synthesizes ribose 1,5-bisphosphate. Has only low phosphopentomutase and phosphoglucomutase activities (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR207197