

Product datasheet for **MG207197**

Pgm2l1 (BC032150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgm2l1 (BC032150) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgm2l1
Synonyms:	4931406N15Rik; AI553438; BM32A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207197 representing BC032150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTACTGCATCTCATAACCCGAAAGAGGACAACGGTACAAGGTTTATTGGGAACTGGTGCTCAAA
 TCACATCTCCACATGATAAAGAAATTCGAAATGTATAGAAGAGTGTGTGGAACCTGGAATGATTCTTG
 GAATGATAATTTAGTGGACACCAGCCACTGAAGAAAGATCCTCTGCAGGACATTTGCAAGAAATACATG
 GAAGATCTGAAGAAGATCTGTTTTACAGGGACTTAAATCAAAGACCACCTTGAATTTGTTACACCT
 CCTTCCATGGAGTTGGACATGACTACGTGCAGTTGGCTTTTCAAGTATTTGGTTTTAAGCCTCCAATTCC
 AGTCCCAGAACAGAAAGATCCAGATCCAGACTTTTCTACTGTTAAATGTCCAAACCTGAAGAAGGAGAA
 TCTGTGCTGGAAGTGTCCCTGAGACTGGCAGAGAAAGAAATGCCCGGATAGTGTAGCCACAGATCCTG
 ATGCCGACCGGCTGGCTGTGGCAGAACTCAGGAGAATGGCCGTTGAAAGTTTTACAGGAAATGAGCT
 GGCAGCTTTGTTGGGTGGTGGATGTTTGATTGCTGGAAGAAAAACAAACCAAACCCGATGTGAAGAAT
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 TTGAAGAAACATTACCAGGCTTTAAATGGATTGGAAGTAGGATAAAAGACCTCCTAGGAAATGGAAGA
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 AGTGCAGCTGCTGTTGTTGCTGAGATGGCCTCTTCTGGATACCAGGAAGGTAACACTGATGGAGCAAC
 TGACAAAAGTGTATGAAATATACGGTTACCATATGTCCAAAACCTCATATTTCTGTGTTATGATCCACC
 TACCATCAAACCATATTTGAAAGGATTCGAAATTTGAGTCTCCAAAGGAATATCCAAAATTTGTGGG
 GCTTTTGTATTTGATGTACGGGACATAACCACTGGATATGATAGCAGCCAGCCAAATAAGAAATCAG
 TACTGCTGTGAGTAAAAACAGCCAAATGATTACATTTACCTTCCAAAACGGCTGTGTCGCTACTCTCCG
 AACAAAGTGGGACAGAACCGAAGATAAAGTATTATGCAGAGATGTGTGCATCGCCTGGCCAGAGTGACACT
 ACCTTCTGGAAGAAGAAATTAAGAAACTCATTGACGCGCTGATAGAGAATTTTCTTGAGCCAGTAAGA
 ACGCACTGGTCTGGCGCTCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207197 representing BC032150
 Red=Cloning site Green=Tags(s)

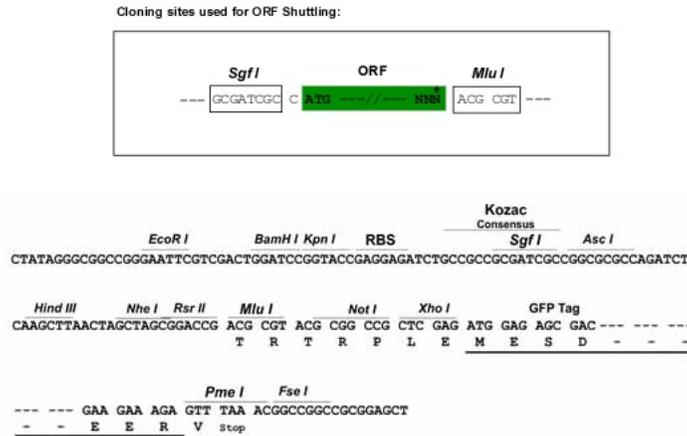
MITASHNRKEDNGYKVYWETGAQITSPHDKEILKCIIECVEPWNDSWVNDNLVDTSPKKDPLQDICKKYM
 EDLKKICFYRDLNSKTTLKFVHTSFHGVGHYVQLAFQVFGFKPPIPVPEQKDPDPDFSTVKCPNPEEGE
 SVLELSRLAEKENARIVLATDPDADRLAVAELQENGRWVFTGNELAALFGWWMFDCWKKKNPNADVKN
 VYMLATTVSSKILKAIKKEGFHFEETLPGFKWIGSRIKDLLGNGKEVLF AFEESIGFLCGTSVLDKDGV
 SAAAVVAEMASFLDTRKVTLMELTKVYIYGYHMSKTSYFLCYDPPTIKTIFERIRNFESPKEYPKFCG
 AFAILHVRDITTYDSSQPNKKSVLVPSKNSQMITFTFQNGCVATLRTSGTEPKIKYYAEMCASPGQSDT
 TFL EELKKLIDALIENFLEPSKNALVWRSV

TRTRPLE - GFP Tag - V

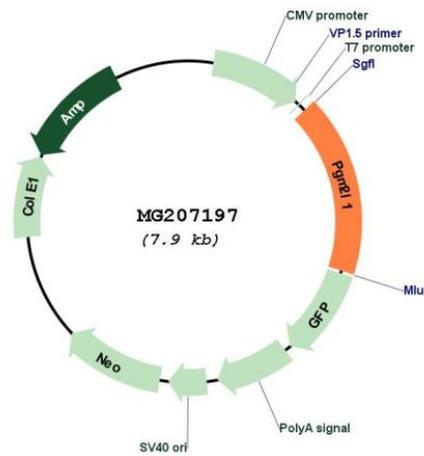
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC032150

ORF Size: 1355 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:	<ol style="list-style-type: none">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>BC032150</u> , <u>AAH32150</u>
RefSeq Size:	1927 bp
RefSeq ORF:	1355 bp
Locus ID:	70974
Cytogenetics:	7 E2
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]