

Product datasheet for **RR206386**

Pgam5 (NM_001025272) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pgam5 (NM_001025272) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pgam5
Synonyms: RGD1312028
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206386 representing NM_001025272
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCCGGCAGGCTCTTCAGCTGGCGGCCTGTGGTCTGGCGGGTGGCTCGGCCGCTGTTCTCTTCT
CGGCGGTAGCGGTAGGGAAGCCGAGAGCTGGCGGGATGCAGACACGCGCAGACAGAGCCGCTGGCCTG
GACCGGAGCGCGCCCGGGCACGGCTCTGGGACTCCAAGTGGGACAGGGGAGAGCCACTGTCACCTATT
AACCTGAAGAAAAGGAACGTGGAATTTGGAGAAGATGAACTGGCTTCCAGGCTGGACACTATAAGGCAA
AGGCTACAAGACACATATTCCTCATCCGGCATTCCAGTACAATGTGGATGGCTCGATGGAGAAGGACCG
CACCTGACCCCATAGGTGGGAACAGGCTGAACTCACGGGGATCCGACTTGCAAGCCTGGGACTGAAG
TTAATAAAAATCGTCCATTCCTCTATGACCCGTGCAGTAGAGACCACAGACATCATCAGTAAGCACCTGC
CAGGTGTCTGCAGAGTCAGCACAGACTTGCTACGGGAAGGTGCCCCATTGAACCGGATCCACCTGTGTC
TCACTGGAAGCCAGAGGCTGTGCAGTATTATGAAGATGGAGCCCGGATTGAGGCTGCCTTCAGGAACTAC
ATCCACCGAGCTGATGCCAAGCAGGAGGAGGACAGCTACGAGATCTTCATATGTCACGCCAATGTCATCC
GTTATATTGTTGTAGGGCACTGCAGTTTCCCCAGAAGGTTGGCTCCGCTGTCCCTCAACAATGGTAG
TATCACCCACCTGGTGATTCGACCCAATGGTCGTGTTGCACTCAGGACCCCTGGGGACACAGGGTTTCATG
CCCCAGACAAGATTACTCGGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206386 representing NM_001025272
 Red=Cloning site Green=Tags(s)

MAFRQALQLAACGLAGGSAAVLFSAVAVGKPRAGGDADTRTTEPLAWTGARPGHGVWDSNWDREPLSLI
 NLKKNRNVFEGEDELASRLDHYKAKATRHIFLIRHSQYNVDGSMKDRTLTPLGREQAELETGIRLASLGLK
 FNKIVHSSMTRAVETTDIISKHLPGVCRVSTDLLREGAPIEDPPVSHWKPEAVQYEDGARIEAAFRNY
 IHRADAKQEEDSYEIFICHANVIRYIVCRALQFPPEGWLRSLNNGSITHLVIRPNGRVALRTLGDGTGM
 PDKITRS

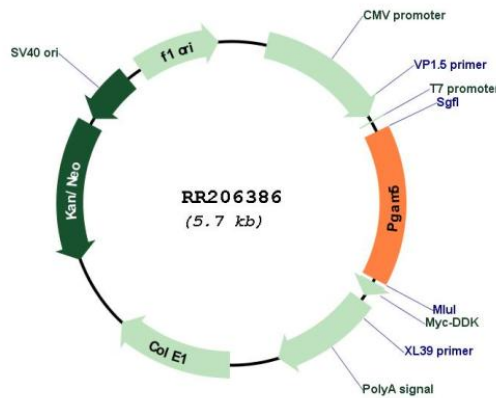
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025272

ORF Size: 864 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:	NM_001025272.1 , NP_001020443.1
RefSeq Size:	2016 bp
RefSeq ORF:	867 bp
Locus ID:	288731
UniProt ID:	Q562B5
Cytogenetics:	12q16
MW:	32.1 kDa
Gene Summary:	Displays phosphatase activity for serine/threonine residues, and, dephosphorylates and activates MAP3K5 kinase. Has apparently no phosphoglycerate mutase activity. May be regulator of mitochondrial dynamics. Substrate for a KEAP1-dependent ubiquitin ligase complex. Contributes to the repression of NFE2L2-dependent gene expression (By similarity). Acts as a central mediator for programmed necrosis induced by TNF, by reactive oxygen species and by calcium ionophore.[UniProtKB/Swiss-Prot Function]