

Product datasheet for **RN206386**

Pgam5 (NM_001025272) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pgam5 (NM_001025272) Rat Untagged Clone
Tag: Tag Free
Symbol: Pgam5
Synonyms: RGD1312028
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206386 representing NM_001025272
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCCGGCAGGCTCTTCAGCTGGCGCCTGTGGTCTGGCGGTGGCTCGGCCGTGTTCTCTTCT
CGGCGGTAGCGGTAGGGAAGCCGAGAGCTGGCGGGATGCAGACACGCGCAGACAGAGCCGCTGGCCTG
GACCGGAGCGCGCCCGGGCACGGCGTCTGGGACTCCAAGTGGGACAGGCGAGAGCCACTGTCACCTATT
AACCTGAAGAAAAGGAAGCTGGAATTTGGAGAAGATGAACTGGCTTCCAGGCTGGACCACTATAAGGCAA
AGGCTACAAGACACATATTCCTCATCCGGCATTCCAGTACAATGTGGATGGCTCGATGGAGAAGGACCG
CACCTGACCCCATTAGGTCGGGAACAGGCTGAACTCACGGGGATCCGACTTGCAAGCCTGGGACTGAAG
TTAATAAAAATCGTCCATTCTCTATGACCCGTGCAGTAGAGACCACAGACATCATCAGTAAGCACCTGC
CAGGTGTCTGCAGAGTCAGCACAGACTTGCTACGGGAAGGTGCCCCATTGAACCGGATCCACCTGTGTC
TCACTGGAAGCCAGAGGCTGTGCAGTATTATGAAGATGGAGCCCGGATTGAGGCTGCCTTCAGGAACTAC
ATCCACCGAGCTGATGCCAAGCAGGAGGAGGACAGCTACGAGATCTTCATATGTCACGCCAATGTCATCC
GTTATATTGTTTGTAGGGCACTGCAGTTTCCCCAGAAGGTTGGCTCCGCTGTCCCTCAACAATGGTAG
TATCACCCACCTGGTGATTCGACCAATGGTTCGTTGCACTCAGGACCCCTGGGACACAGGGTTCATG
CCCCAGACAAGATTACTCGGTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001025272
Insert Size: 867 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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>NM_001025272.1</u> , <u>NP_001020443.1</u>
RefSeq Size:	2016 bp
RefSeq ORF:	867 bp
Locus ID:	288731
UniProt ID:	<u>Q562B5</u>
Cytogenetics:	12q16
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]