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Product datasheet for MG217436

Pgam5 (NM_028273) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgam5 (NM_028273) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgam5
Synonyms:	2610528A17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG217436 representing NM_028273
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTCCGGCAGGCGCTTCAGCTGGCGGCCTGTGGTCTGGCCGGTGGCTCGGCCGCTGTTCTCTTCT
CGGCGGTCGCGGTAGGGAAGCCGCGAGGTGGCGGGGATGCAGACACGCGCGCGACCGAGCCGCCGGTCTG
GACAGGAGCGCGAGCCGGGCGCGGCGTCTGGGACACCAACTGGGACAGGCGAGAGCCACTGTCACTCATT
AACCTGAAGAAAAGGAATGTGGAATCTGGAGAAGACGAGTTGACATCCAGGCTGGATCACTATAAGGCCA
AGGCCACAAGGCACATCTTCCTCATCCGGCATTCCCAGTACCATGTGGATGGCTCCCTGGAGAAGGACCG
CACCCTGACACCATTAGGTCGGGAACAGGCTGAACTCACGGGGCTCCGACTTGCAAGCCTGGGATTAAAG
TTTAATAAAATTGTCCATTCCTCTATGACCCGTGCAGTAGAGACCACAGACATCATCAGCAAGCACCTGC
CAGGTGTCTCCAGAGTCAGCACAGACTTGCTACGGGAAGGTGCCCCCATTGAACCGGATCCACCTGTCTC
TCACTGGAAGCCAGAGGCTGTGCAGTATTATGAAGATGGAGCCCGGATTGAAGCTGCCTTCAGGAACTAC
ATCCACCGAGCTGATGCCAGGCAGGAGGAGGACAGCTATGAGATCTTCATATGCCATGCCAATGTCATCC
GCTATATTGTTTGTAGAGCGTTGCAGTTTCCCCCAGAAGGTTGGCTCCGCCTGTCCCTCAACAACGGCAG
TATCACCCACCTGGTGATTCGACCCAATGGTCGTGTGGCACTCAGGACCCTTGGGGACACAGGGTTCATG
CCCCCAGACAAGATTACTCGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

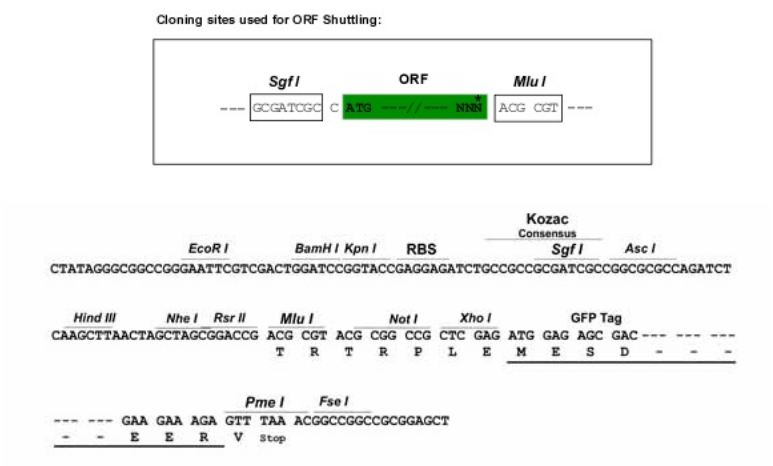
>MG217436 representing NM_028273
Red=Cloning site Green=Tags(s)

MAFRQALQLAACGLAGGSAAVLFSAVAVGKPRGGGDADTRATEPPVWTGARAGRGVWDTNWDRREPLSLI
NLKKRNVESGEDELTSRLDHYKAKATRHIFLIRHSQYHVDGSLEKDRTLTPLGREQAELTGLRLASLGLK
FNKIVHSSMTRAVETTDIISKHLPGVSRVSTDLLREGAPIEPDPPVSHWKPEAVQYYEDGARIEAAFRNY
IHRADARQEEDSYEIFICHANVIRYIVCRALQFPPEGWLRLSLNNGSITHLVIRPNGRVALRTLGDTGFM
PPDKITRS

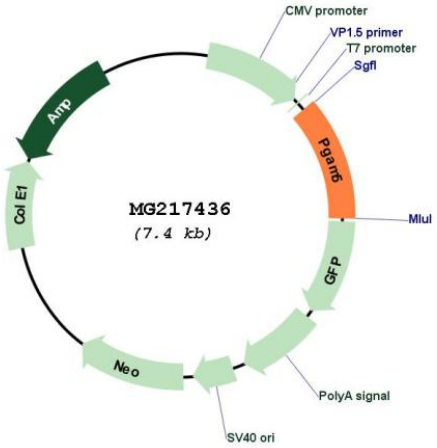
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028273

ORF Size: 861 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_028273.3, NP_082549.2

RefSeq Size: 2076 bp

RefSeq ORF: 864 bp

Locus ID: 72542

UniProt ID: Q8BX10

Cytogenetics: 5 F

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]