

Product datasheet for **MG215881**

Pgam5 (NM_001163538) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pgam5 (NM_001163538) 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: >MG215881 representing NM_001163538
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTTCCGGCAGGCGCTTCAGCTGGCGCCTGTGGTCTGGCCGGTGGCTCGGCCGCTGTTCTCTTCT
CGGCGGTGCGGGTAGGGAAGCCGCGAGGTGGCGGGATGCAGACACGCGCGACCGAGCCGCCGGCCTG
GACAGGAGCGCGAGCCGGGCGCGCGTCTGGGACACCAACTGGGACAGGCGAGAGCCACTGTCACCTATT
AACCTGAAGAAAAGGAATGTGGAATCTGGAGAAGACGAGTTGACATCCAGGCTGGATCACTATAAGGCCA
AGGCCACAAGGCACATCTTCCTCATCCGGCATTCCAGTACCATGTGGATGGCTCCCTGGAGAAGGACCG
CACCTGACACCATTAGGTCGGGAACAGGCTGAACTCACGGGGCTCCGACTTGCAAGCCTGGGATTAAGG
TTAATAAAAATTGTCCATTCTCTATGACCCGTGCAAGTACAGACACAGACATCATCAGCAAGCACCTGC
CAGGTGTCTCCAGAGTCAGCACAGACTTGTACGGGAAGGTGCCCCATTGAACCGGATCCACCTGTCTC
TCACTGGAAGCCAGAGGCTGTGTATTATGAAGATGGAGCCCGATTGAAGCTGCCTTCAGGAACTACATC
CACCGAGCTGATGCCAGGCGAGGAGGAGGACAGCTATGAGATCTTCATATGCCATGCCAATGTCATCCGCT
ATATTGTTGTAGAGCGTTGCAGTTTCCCCAGAAGGTTGGCTCCGCCTGTCCCTCAACAACGGCAGTAT
CACCCACCTGGTATTGACCCAAATGGTCGTGTGGCACTCAGGACCCTTGGGACACAGGGTTCATGCC
CCAGACAAGATTACTCGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215881 representing NM_001163538
 Red=Cloning site Green=Tags(s)

MAFRQALQLAACGLAGGSAAVLFSAVAVGKPRGGGDADTRATEPPAWTGARAGRGVWDTNWDREPLSLI
 NLKKNRVESGEDELTSRLDHYKAKATRHIFLIRHSQYHVDGSLEKDRTLTPGREQELTGLRLASLGLK
 FNKIVHSSMTRAVETTDIISKHLPGVSRVSTDLLREGAPIEDPPVSHWKPEAVYEDGARIEAAFRNYI
 HRADARQEEDSYEIFICHANVIRYIVCRALQFPPEGLRLSLNNGSITHLVIRPNGRVALRTLGDGTGFMP
 PDKITRS

TRTRPLE - GFP Tag - V

Restriction Sites:

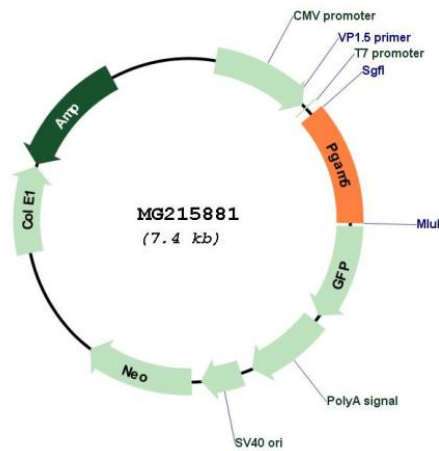
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001163538

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_001163538.1 , NP_001157010.1
RefSeq Size:	2079 bp
RefSeq ORF:	867 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]