

## Product datasheet for **RG229838**

### PGAM5 (NM\_001170544) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGAM5 (NM_001170544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGAM5
Synonyms:	BXLBV68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229838 representing NM_001170544 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTTCGGCAGGCGCTGCAGCTGGCGCCTGCGGGCTGGCCGGGGCTCGGCCCGCTGCTCTTCT  
CGGCCGTGGCGGTAGGGAAGCCGCGCAGGCGGGGACGCGGAGCCACGCCCGGCTGAGCCCGCGCCTG  
GGCGGGGGCGCGCGCCGGCCCGGTGTCTGGGACCCAACTGGGACAGGCGAGAACCCTGTCTCTG  
ATCAACGTGCGGAAGAGGAACGTGGAATCTGGGAAGAAGAGCTGGCGTCCAAGCTGGACCACTACAAG  
CCAAGGCCACGCGCACATCTTCTCATCAGGCATTCAGTACCACGTGGATGGCTCCCTGGAGAAGGA  
CCGCACTCTGACCCCGTGGGTGCGGAGCAGGCTGAACCTACTGGGCTCCGCTGGCAAGCTTGGGGTTG  
AAGTTAATAAAATCGTCCATTCGCTATGACGCGGCCATAGAGACCACCGATATCATCAGCCGGCACC  
TGCCAGGCGTCTGCAAAGTCAGCACAGATCTGCTGCGGGAAGGCGCCCATCGAGCCAGACCCGCCGT  
GTCTCATTGGAAGCCGGAAGCTGTGATTACGAAGACGGAGCCCGGATCGAGGCCGCTTCCGGAACCTAC  
ATCCACCGCGCAGATGCCAGGCAGGAGGAGGACAGTTACGAGATCTTCTCATCTGTCACGCCAACGTATCC  
GCTACATCGTGTGCAGAGCACTGCAGTTTCTCCTGAAGGCTGGCTCCGGCTCTCCCTCAATAATGGCAG  
CATCACCCACCTGGTGATCCGACCAACGGCCGAGTTGCGCTCAGGACCTCGGGGACACGGGTTTCATG  
CTCCCGACAAGATCACTCGATCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229838 representing NM\_001170544  
Red=Cloning site Green=Tags(s)

MAFRQALQLAACGLAGGSAAVLFSAVAVGKPRAGGDAEPRPAEPPAWAGGARPGPGVWDPNWRREPLSL  
 INVRKRNVESGEEELASKLDHYKAKATRHIFLIRHSQYHVDGSLEKDRTLTPLGREQAELTGLRLASLGL  
 KFNKIVHSSMTRAIETTDIISRHLPGVCKVSTDLLREGAPIEPDPPVSHWKPEAVYYEDGARIEAAFRNY  
 IHRADARQEEDSYEIFICHANVIRYIVCRALQFPPEGWLRSLNNGSITHLVIRPNGRVALRTLGDGTGM  
 PPKITRS

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1755\\_a02.zip](https://cdn.origene.com/chromatograms/ja1755_a02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001170544

**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:**

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\\_001170544.2](#)

**RefSeq Size:** 2848 bp

**RefSeq ORF:** 867 bp

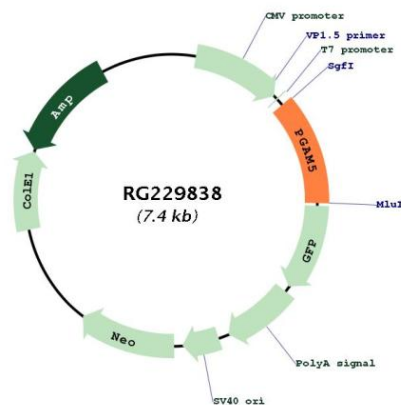
**Locus ID:** 192111

**Cytogenetics:** 12q24.33

**Protein Families:** Transmembrane

**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. Acts as a central mediator for programmed necrosis induced by TNF, by reactive oxygen species and by calcium ionophore.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG229838