

Product datasheet for **SC328476**

PGAM5 (NM_001170544) Human Untagged Clone

Product data:

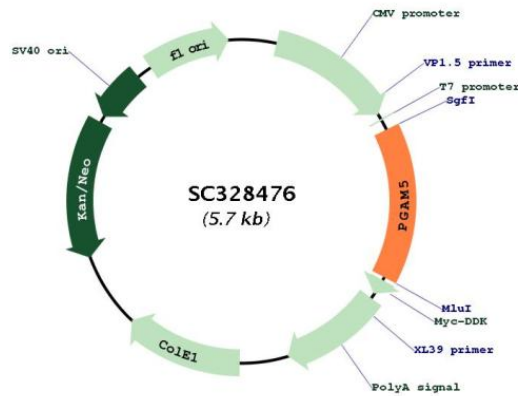
Product Type:	Expression Plasmids
Product Name:	PGAM5 (NM_001170544) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGAM5
Synonyms:	BXLBV68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328476 representing NM_001170544. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGCGTTCGGCAGGCGCTGCAGCTGGCGGCCTGCGGGCTGGCCGGGGGCTCGGCCCGCGTGTCTTC
TCGGCCGTGGCGGTAGGGAAGCCGCGCGCAGGCGGGGACGCGGAGCCACGCCCGGCTGAGCCCGCGCC
TGGGCGGGGGCGCGCGGCCGGGCCCGGTGTCTGGGACCCAACTGGGACAGGCGAGAACCCTGTCT
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AAAGCCAAGCCACGCGGCACATCTTCTCATCAGGCATTCACAGTACCACGTGGATGGTCCCTGGAG
AAGGACCGCACTCTGACCCCGTGGTTCGGGAGCAGGCTGAACACTACTGGCTCCGCCTGGCAAGCTTG
GGTTGAAGTTAATAAAATCGTCCATTCGTCTATGACGCGGCCATAGAGACCACCGATATCATCAGC
CGGCACCTGCCAGGCGTCTGCAAAGTCAGCACAGATCTGCTGCGGGAAGGCGCCCCATCGAGCCAGAC
CCGCCCGTGTCTCATTGGAAGCCGGAAGCTGTGTATTACGAAGACGGAGCCCGGATCGAGGCCGCTTC
CGGAACACTACACC CGCAGATGCCAGGCAGGAGGAGACAGTTACGAGATCTTCATCTGTACAGCC
AACGTCATCCGCTACATCGTGTGCAGAGCACTGCAGTTTCTCTGAAGGCTGGCTCCGGCTCTCCCTC
AATAATGGCAGCATCACCCACCTGGTGATCCGACCCAACGGCCGAGTTGCGCTCAGGACCCTCGGGGAC
ACGGGGTTCATGCCTCCCGACAAGATCACTCGATCCTGA
ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001170544

Insert Size: 867 bp

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001170544.1](#)

RefSeq Size: 2848 bp

RefSeq ORF: 867 bp

Locus ID:	192111
Cytogenetics:	12q24.33
Protein Families:	Transmembrane
MW:	31.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>