

Product datasheet for RC201678

PGAM5 (NM_138575) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGAM5 (NM_138575) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGAM5
Synonyms:	BXLBV68
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC201678 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGTTCGGCAGGCGCTGCAGCTGGCGGCCTGCGGGCTGGCCGGGGCTCGGCCGCCGTCTTCT
CGGCCGTGGCGGTAGGGAAGCCGCGCAGGCGGGGACGCGGAGCCACGCCCGGCTGAGCCGCCGGCCTG
GGCGGGGGCGCGCGGCCGGCCCGGTGTCTGGGACCCAACTGGGACAGGCGAGAACCCTGTCTCTG
ATCAACGTGCGGAAGAGGAACGTGGAATCTGGGAAGAAGAGCTGGCGTCCAAGCTGGACCACTACAAAG
CCAAGGCCACGGGCACATCTTCTCATCAGGCATTCAGTACCACGTGGATGGCTCCCTGGAGAAGGA
CCGCACTCTGACCCCGCTGGGTGCGGAGCAGGCTGAACTCACTGGGCTCCGCTGGCAAGCTTGGGGTTG
AAGTTTAAATAAAATCGTCCATTCGTCTATGACGCGGCCATAGAGACCACCGATATCATCAGCCGGCACC
TGCCAGGCGTCTGCAAAGTCAGCACAGATCTGCTGCGGGAAGGCGCCCCATCGAGCCAGACCCGCCCGT
GTCTCATTGGAAGCCGGAAGCTGTGCAGTATTACGAAGACGGAGCCCGGATCGAGGCCGCTTCCGGAAC
TACATCCACCGCGCAGATGCCAGGACAGGAGGACAGTTACGAAATCTTCATCTGTACGCCAACGTC
TCCGCTACATCGTGTGCAGCATCCCGCCGCTGTTGTCGCTGGGATTTGTGGTTCTGGGGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC201678 protein sequence
 Red=Cloning site Green=Tags(s)

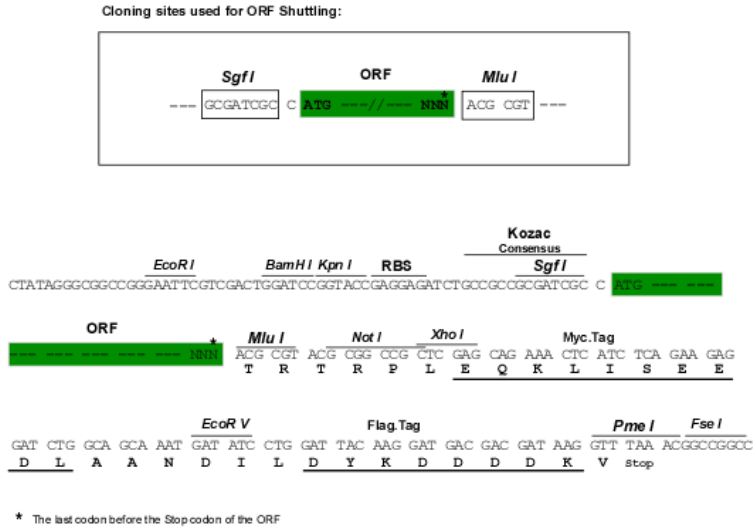
MAFRQALQLAACGLAGGSAAVLFSAVAVGKPRAGGDAEPRPAEPPAWAGGARPGPGVWDPNWRREPLSL
 INVNRKRVESGEEELASKLDHYKAKATRHIFLIRHSQYHVDGSLEKDRTLTPLGREQAELTGLRLASLGL
 KFNKIVHSSMTRAIETTDIISRHLPGVCKVSTDLLREGAPIEDPPVSHWKPEAVQYEDGARIEAAFRN
 YIHRADARQEEDSYEIFICHANVIRYIVCSIPPLL SAGDFVVLGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

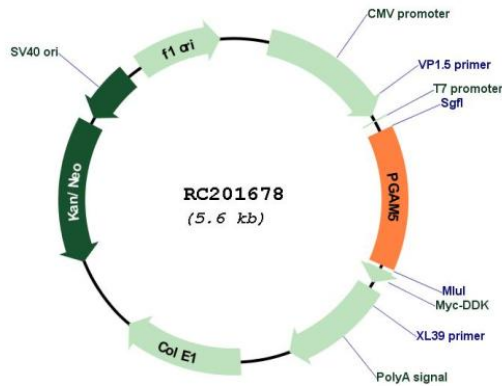
Chromatograms: https://cdn.origene.com/chromatograms/mk6267_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



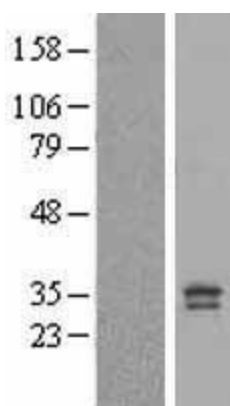
Plasmid Map:



ACCN: NM_138575

ORF Size:	765 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.
RefSeq:	NM_138575.2
RefSeq Size:	1194 bp
RefSeq ORF:	768 bp
Locus ID:	192111
UniProt ID:	Q96HS1
Protein Families:	Transmembrane
MW:	28 kDa
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:



Western blot validation of overexpression lysate (Cat# [LY408566]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201678 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).