

Product datasheet for **MG208518**

Pkm (NM_011099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkm (NM_011099) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pkm
Synonyms:	AA414905; AL024370; AL024424; Pk-2; Pk-3; Pk3; Pkm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208518 representing NM_011099
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAAGCCACACAGTGAAGCAGGGACTGCCTTCATTAGACCCAGCAGCTCCATGCAGCCATGGCTG
 ACACCTTCTGGAACACATGTGCCGCTGGACATTGACTCTGCCCCATCACGGCCGCAACACTGGCAT
 CATTGTACCATTGGCCTGCTTCCCGATCTGTGGAGATGCTGAAGGAGATGATTAAGTCTGGAATGAAT
 GTGGCTCGGCTGAATTTCTCATGGAACCCATGAGTACCATGCAGAGACCATCAAGAATGTCCGTGAAG
 CCACAGAAAGCTTTGCATCTGATCCATTCTCTACCGTCTGTTGCGGTGGCTCTGGATACAAAGGGACC
 TGAGATCCGGACTGGACTCATCAAGGGCAGCGCACCGCTGAGGTGGAGCTGAAGAAGGGAGCCACTCTG
 AAGATCACCTGGACAACGCTTACATGGAGAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACA
 TCTGCAAGGTGGTGGAGGTGGCAGCAAGATCTACGTGGACGATGGGCTCATCTCACTGCAGGTGAAGGA
 GAAAGGCGCTGACTTCTGGTGACGGAGGTGGAGAATGGTGGCTCCTTGGCAGCAAGAAGGGCGTGAAC
 CTGCCGGCGCTGCTGTGGATCTCCCGCTGTGTGCGAAAAGGACATCCAGGACCTGAAGTTGGGGTGG
 AGCAGGATGTGGACATGGTGTTCATCCGCAAGGCAGCCGACGTGCATGAAGTCAGGAAGGT
 GCTGGGAGAGAAGGGCAAGAACATCAAGATCATCAGAAAATCGAGAACCATGAAGGCGTCCGCAGGTTT
 GATGAGATCTTGGAGGCCAGTATGGGATCATGGTGGCTCGTGGTGACCTGGGCATTGAGATTCCTGCAG
 AGAAGGTCTTCTGGCTCAGAAGATGATGATCGGGCGATGCAACCGAGCTGGGAAGCCTGTCATCTGTGC
 CACACAGATGCTGGAGAGCATGATCAAGAAGCCACGCCCCACCGTGTGAAGGCAGTATGTGGCCAAT
 GCAGTCTGGATGGAGCAGACTGCATCATGTCTGTGGAGAAACAGCCAAGGGGGACTACCTCTGGAGG
 CTGTTTCGCATGCAGCACCTGATTGCCCGAGAGGCAGAGGCTGCCATCTACCACTTGCACTATTCGAGGA
 ACTCCGCGCCTGGCGCCATTACCAGCGACCCACAGAAGCTGCCGCGGTGGGTGCCGTGGAGGCCTCC
 TTCAAGTGTGCAAGTGGGCCATTATCGTGCTCACCAGTCTGGCAGGAGTGTCAACCAAGTGGCCAGGT
 ACCGCCCTCGGGCTCCTATCATTGCCGTGACTCGAAATCCCAGACTGCTCGCCAGGCCCATCTGTACCG
 TGGCATCTCCCTGTGCTGTGTAAGGATGCCGTGCTGAATGCCTGGGCTGAGGATGTCGACCTTCGTGTA
 AACTTGGCCATGGATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCG
 GGTGGCGCCCTGGCTCTGGATTCACCAACACCATGCGTGTAGTGCCTGTACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208518 representing NM_011099
 Red=Cloning site Green=Tags(s)

MPKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSAPITARNTGIICTIGPASRSVEMLKEMIKSGMN
 VARLNFSHGTHEYHAETIKNVREATESFASDPILYRPVAVALDTKGPEIRTLIKSGTAEVELKKGATL
 KITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKEKGADFLVTEVENGSLGSKKGVN
 LPGAAVDLPAVSEKDIQDLKFGVEQDVMVFAFIRKAADVHEVRKVLGEKGKNIKIISKIENHEGVRRF
 DEILEASDGIMVARGDLGIEIPA EKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAN
 AVLGDADCIMLSGETAKGDYPLEAVRMQHLIAREAEAAIYHLQLFEELRRLAPITSDPTEAAAVGAVEAS
 FKCCSGAIIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDAVLNAWAEDVDLRV
 NLAMDVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_011099

ORF Size: 1593 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_011099.4](#)

RefSeq Size: 2212 bp

RefSeq ORF: 1596 bp

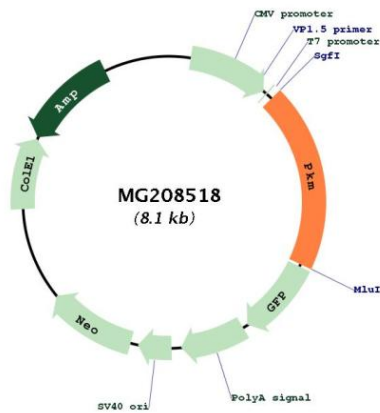
Locus ID: 18746

UniProt ID: [P52480](#)

Cytogenetics: 9 32.03 cM

Gene Summary: Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP (By similarity). Stimulates POU5F1-mediated transcriptional activation (By similarity). Promotes in a STAT1-dependent manner, the expression of the immune checkpoint protein CD274 in ARNTL/BMAL1-deficient macrophages (PubMed:29996098).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208518