

Product datasheet for **MR208518**

Pkm (NM_011099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkm (NM_011099) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pkm
Synonyms:	AA414905; AL024370; AL024424; Pk-2; Pk-3; Pk3; Pkm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208518 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGAAGCCACACAGTGAAGCAGGGACTGCCTTCATTAGACCCAGCAGCTCCATGCAGCCATGGCTG
 ACACCTTCTGGAACACATGTGCCGCTGGACATTGACTCTGCCCCATCACGGCCGCAACACTGGCAT
 CATTGTACCATTGGCCTGCTTCCCGATCTGTGGAGATGCTGAAGGAGATGATTAAGTCTGGAATGAAT
 GTGGCTCGGCTGAATTTCTCATGGAACCCATGAGTACCATGCAGAGACCATCAAGAATGCCGTGAAG
 CCACAGAAAGCTTTGCATCTGATCCATTCTTACCGTCTGTTGCGGTGGCTCTGGATACAAAGGGACC
 TGAGATCCGGACTGGACTCATCAAGGGCAGCGCACCGCTGAGGTGGAGCTGAAGAAGGGAGCCACTCTG
 AAGATCACCTGGACAACGCTTACATGGAGAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACA
 TCTGCAAGGTGGTGGAGGTGGCAGCAAGATCTACGTGGACGATGGGCTCATCTACTGCAGGTGAAGGA
 GAAAGGCGCTGACTTCTGGTGGCAGGAGTGGAGAATGGTGGCTCCTTGGCAGCAAGAAGGGCGTGAAC
 CTGCCGGGCGCTGCTGTGGATCTCCCGCTGTGTGCGAAAAGGACATCCAGGACCTGAAGTTTGGGGTGG
 AGCAGGATGTGGACATGGTGTTCATCCGCAAGGCAGCCGACGTGCATGAAGTCAGGAAGGT
 GCTGGGAGAGAAGGGCAAGAACATCAAGATCATCAGCAAATCGAGAACCATGAAGGCGTCCGCAGGTTT
 GATGAGATCTTGGAGGCCAGTATGGGATCATGGTGGCTCGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AGAAGGTCTTCTGGCTCAGAAGATGATGATCGGGCGATGCAACCGAGCTGGGAAGCCTGTCATCTGTGC
 CACACAGATGCTGGAGAGCATGATCAAGAAGCCACGCCCCACCGTGTGAAGGCAGTATGTGGCCAA
 GCAGTCTGGATGGAGCAGACTGCATCATGTCTGTGGAGAAACAGCCAAGGGGGACTACCTCTGGAGG
 CTGTTCCGATGCAGCACCTGATTGCCCGAGAGGCAGAGGCTGCCATCTACCACTTGCAAGTATTCGAGGA
 ACTCCGCGCCTGGCGCCATTACCAGCGACCCACAGAAGCTGCCGCGTGGGTGCCGTGGAGGCCCTCC
 TTCAAGTGTGAGTGGGCCATTATCGTGCTCACCAGTCTGGCAGGAGTGTACCAAGTGGCCAGGT
 ACCGCCCTCGGGCTCCTATCATTGCCGTGACTCGAAATCCCAGACTGCTCGCCAGGCCATCTGTACCG
 TGGCATCTCCCTGTGCTGTGTAAGGATGCCGTGCTGAATGCCTGGGCTGAGGATGTCGACCTTCGTGTA
 AACTTGGCCATGGATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCG
 GGTGGCGCCCTGGCTCTGGATTCACCAACACCATGCGTGTAGTGCCTGTACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208518 protein sequence
 Red=Cloning site Green=Tags(s)

MPKPHSEAGTAFIQTLHAAMADTFLEHMCRLDIDSAPITARNTGIICITIGPASRSVEMLKEMIKSGMN
 VARLNFSGTHEYHAETIKNVREATESFASDPILYRPVAVALDTKGPEIRTLIKGSGTAEVELKKGATL
 KITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKEKGADFLVTEVENGGSLGSKKGVN
 LPGAAVDLPVSEKDIQDLKFGVEQDVMVFAFIRKAADVHEVRKVLGEKGNIKIISKIENHEGVRRF
 DEILEASDGMVARGDLGIEIPA EKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAN
 AVL D G A D C I M L S G E T A K G D Y P L E A V R M Q H L I A R E A E A I Y H L Q L F E E L R R L A P I T S D P T E A A A V G A V E A S
 F K C C S G A I I V L T K S G R S A H Q V A R Y R P R A P I I A V T R N P Q T A R Q A H L Y R G I F P V L C K D A V L N A W A E D V D L R V
 N L A M D V G K A R G F F K K G D V V I V L T G W R P G S G F T N T M R V V P V P

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011099

ORF Size: 1596 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.

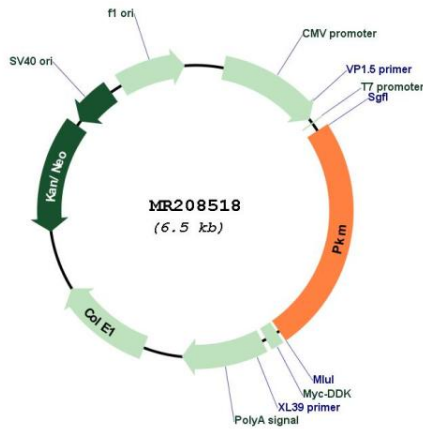
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: 2432 bp
 RefSeq ORF: 1596 bp
 Locus ID: 18746
 UniProt ID: [P52480](#)
 Cytogenetics: 9 32.03 cM
 MW: 57.8 kDa

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 MR208518