

Product datasheet for **MC228197**

Pkm (NM_001253883) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkm (NM_001253883) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pkm
Synonyms:	AA414905; AL024370; AL024424; Pk-2; Pk-3; Pk3; Pkm2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228197 representing NM_001253883
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAAGCCACACAGTGAAGCAGGGACTGCCTTCATTAGACCCAGCAGCTCCATGCAGCCATGGCTG
 ACACCTTCTGGAACACATGTGCCGCTGGACATTGACTCTGCCCCATCACGGCCGCAACACTGGCAT
 CATTGTACCATTGGCCTGCTTCCCGATCTGTGGAGATGCTGAAGGAGATGATTAAGTCTGGAATGAAT
 GTGGCTCGGCTGAATTTCTCATGGAACCCATGAGTACCATGCAGAGACCATCAAGAATGCCGTGAAG
 CCACAGAAAGCTTGCATCTGATCCATTCTTACCGTCTGTTGCGGTGGCTCTGGATACAAAGGGACC
 TGAGATCCGGACTGGACTCATCAAGGGCAGCGCACCGCTGAGGTGGAGCTGAAGAAGGGAGCCACTCTG
 AAGATCACCTGGACAACGCTTACATGGAGAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACA
 TCTGCAAGGTGGTGGAGGTGGCAGCAAGATCTACGTGGACGATGGGCTCATCTACTGCAGGTGAAGGA
 GAAAGGCGCTGACTTCCGTGACGGAGGTGGAGAATGGTGGCTCCTTGGCAGCAAGAAGGGCGTGAAC
 CTGCCGGGCGCTGCTGTGGATCTCCCGCTGTGTGCGAAAAGGACATCCAGGACCTGAAGTTGGGGTGG
 AGCAGGATGTGGACATGGTGTTCATCCGCAAGGCAGCCGACGTGCATGAAGTCAGGAAGGT
 GCTGGGAGAGAAGGGCAAGAACATCAAGATCATCAGAAAATCGAGAACCATGAAGGCGTCCGCAGGTTT
 GATGAGATCTTGGAGGCCAGTATGGGATCATGGTGGCTCGTGGTACCTGGGCATTGAGATTCCTGCAG
 AGAAGGTCTTCTGGCTCAGAAGATGATGATCGGGCGATGCAACCGAGCTGGGAAGCCTGTCATCTGTGC
 CACACAGATGCTGGAGAGCATGATCAAGAAGCCACGCCCCACCGTGTGAAGGCAGTATGTGGCCAAT
 GCAGTCTGGATGGAGCAGACTGCATCATGCTGTCTGGAGAAACAGCCAAGGGGGACTACCTCTGGAGG
 CTGTTTCGCATGCAGCACCTGATAGCTCGGGAGGCTGAGGCAGCCATGTTCCACCGTCTGCTTTGAAG
 GCTTGTGCGAGCCCTCCAGTCACTCCACAGACCTCATGGAGGCCATGGCCATGGGCAGCGTGGAGGCCTCT
 TATAAGTGTTTAGCAGCAGCTTTGATAGTTCTCACGGAGTCTGGCAGGAGTGTACCAAGTGGCCAGGT
 ACCGCCCTCGGGCTCCTATCATTGCCGTGACTCGAAATCCCAGACTGCTCGCCAGGCCCATCTGTACCG
 TGGCATCTCCCTGTGCTGTGTAAGGATGCCGTGCTGAATGCCTGGGCTGAGGATGTCGACCTTCGTGTA
 AACTTGGCCATGGATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCG
 GGTGGCGCCCTGGCTCTGGATTCACCAACACCATGCGTGTAGTGCCTGTACCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001253883
- Insert Size:** 1596 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001253883.1](#), [NP_001240812.1](#)

RefSeq Size: 2432 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]
Transcript Variant: This variant (1) encodes isoform M1. Isoforms M1 and M2 are identical in length but have different sequences.