

Product datasheet for **MC203910**

Pfkl (NM_008826) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkl (NM_008826) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pfkl
Synonyms:	AA407869; ATP-PFK; PFK-B; PFK-L
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC020097
 CCGACGCGTGGGCGCGGAACGCAGAGCGGCGGGAGAGGAGCTTGGGCTCCTGGTCTCCGCTGCCGCCATG
 GCTACCGTGGACCTGGAGAACTGCGGATGTGGGGGCTGGCAAGGCCATTGGAGTGTGACCAGCGGCG
 GTGATGCGCAAGGTATGAATGCTGCTGTGAGGGCTGTGACCCGTATGGGCATATATGTGGGGCCAAAGT
 CTTCTCATCTATGAGGGCTACGAGGGCCTTGTGAAGGAGGCGAGAACATCAAGCCAGCCAAGTGGCTC
 AGCGTTTTCCAATATCATCCAGCTGGGTGGCACCATTATTGGCAGTGCCCGCTGTAAGGCCTTCACTACGA
 GGGAAGGCGCCTGGCTGCAGCCTACAATCTGCTCCAACACGGCATACCAACCTGTGTGCATCGGTGG
 CGATGGCAGCCTCACGGGGCCAAACATCTTCCGCAACGAGTGGGCGAGCTTGCTGGAGGAGCTGGTGAAG
 GAAGGCAAGATCTCAGAGTCCACAGCTCAGAACTACGCACACTTGACCATCGCCGGTCTGGTGGGCTCCA
 TCGATAATGACTTCTGCGGCACTGACATGACCATTGGCACAGACTCAGCCCTGCACCGCATTATGGAGGT
 CATTGACGCCATCACTACCCTGCCAAAGTACCAGAGGACCTTTGTTTTGGAGGTGATGGGACGGCAC
 TGCGGGTACCTGGCGCTGGTGTCTGCGCTGGCTTCCGGGGCTGATTGGCTATTCTTCTGAAGCGCCCC
 CTGAGGATGGCTGGGAGAACTTCAATGTGTGAGAGGCTGGGCGAGACTCGGAGCCGAGGCTCTCGGCTGAA
 CATCATCATCATCGCAGAGGGCGCCATTGACCGGCATGAAAAGCCTATCTCATCCAGCTACGTGAAGGAT
 CTGGTGGTTCAGAGGCTGGGCTTCGATACACGAGTACTGTGCTGGGTCATGTACAGCGAGGAGGGACGC
 CTTGAGCCTTCGACCGAATCCTGAGTAGCAAGATGGGTATGGAGGCCGTGATGGCCTGTAGAGGCCAC
 GCCTGACACGCCGGCCTGTGTGGTACGCTTCCGGGAACAGTCTGTGAGGCTGCCTCTCATGGAGTGT
 GTGCAAGTGACAAAGGACGTGCAGAAGGCCATGGACGAGGAGAGGTTTGACGAGGCCATCCAGCTCCGTG
 GCAGGAGCTTTGAGAACAAGTGGAAAATTTACAAGCTCCTTGCCACAGAAAGGTGTCTAAAGAGAAGTC
 CAACTTCTCCCTGGCCATCTGAATGTGGGGGCTCCAGCTGTGGCATGAATGCAGCTGTGCGCTCCGCA
 GTGCGCACCGGTATCTCCGAGGGACACCGGTATACATCGTGCATGATGGCTTTGAGGGTCTGGCCAAGG
 GTCAGGTGCAAGAAGTGGGCTGGCATGATGTGGCAGGCTGGCTGGGACGTGGTGGCTCGATGCTGGGGAC
 CAAGAGGACACTGCCCAAGCCCCATCTGGAGGCCATTGTGAGAATCTCCGCACCTACAACATCCACGCC
 CTGCTGGTGATTGGTGGCTTTGAGGCCTACGAGGGTGTGCTGCAGCTGGTGGAGGCCCGGGGGCGTACG
 AGGAACTCTGCATTGTGATGTGCGTATCCAGCCACCATCAGCAACAATGTGCCTGGCACTGACTTCAG
 CCTGGGCTCAGACACGGCTGTCAACGCTGCAATGGAGAGTTGTGATCGCATCAAGCAGTACGCTCAGGG
 ACAAAGCGGCGTGTGTTTATTGTAGAGACCATGGGGGGCTACTGTGGCTACCTGGCCACTGTGACCGGCA
 TTGCTGTGGGTGCCGATGCTGCCTACGTCTTTGAGGACCCTTTCAACATCCATGACTTAAAGCCAAATGT
 GGAGCATATGACAGAGAAGATGAAGACAGACATCCAGAGGGGACTGGTGTCCGGAACGAGAAGTGTGAC
 GAACACTACACCACAGAGTTCCTATAACCTGTACTCCTCAGAAAGCAGGGGCGTGTGTTGACTGCAGGA
 CCAATGTGCTGGGCCACTTACAGCAGGGTGGTGTCCAACCCCTTTCGACCGGAACATATGGGACCAAAT
 GGGGGTGAAGGCCATGTTGTGGGTGTCTGAGAAGCTACGTGATGTCTACCGTAAAGGGCGGGTGTGTC
 AATGCTCCAGACTCAGCCTGTGTGATCGGCCTGCGGAAGAAGGTAGTGGCCTTCACTCCGGTACAGAAC
 TCAAGAAAGAGACTGATTTTGTGACCCGCATGCCCGGGAGCAGTGGTGGCTGAATCTGCGGCTGATGCT
 GAAGATGCTGGCACACTATCGCATCAGCATGGCAGACTATGTGTCTGGGAGCTGGAGCAGTACACCGC
 CGCACCTTGAGCATAGACAAGGGTTTCTGAGCTTACTGTCACTACTGTTCTGCTTCCCGGACTCTCAC
 CCTCCAGTGTAGCCACAGATCCAGCACCAGGGGAACTCAAGGGGAACTCGGAGCCCGGGGCTGGCT
 GAGGGATGTGGGGTCTACTGTGCTGCTCTGGGGCTCTTCCCTTAGCCCTCCCCACCCCCAGGACAGA
 GAGCCTGTGGGGCCCCTACCTTCCAGTACAGCCACATTGCCTCTCCCTCACTGGCCAGCTGGCTGCCTC
 ACCACACGGCTGAAAAGAGCCTCACTTTTTTAAAGTAAAGTACCTGTCTAGAGCAAAAAAAAAAAAAAA AA

Restriction Sites: RsrII-NotI

ACCN: NM_008826

Insert Size: 2343 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).

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:	<ol style="list-style-type: none">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:	<u>BC020097</u> , <u>AAH20097</u>
RefSeq Size:	2732 bp
RefSeq ORF:	2343 bp
Locus ID:	18641
UniProt ID:	<u>P12382</u>
Cytogenetics:	10 39.72 cM
Gene Summary:	Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis (By similarity). Negatively regulates the phagocyte oxidative burst in response to bacterial infection by controlling cellular NADPH biosynthesis and NADPH oxidase-derived reactive oxygen species. Upon macrophage activation, drives the metabolic switch toward glycolysis, thus preventing glucose turnover that produces NADPH via pentose phosphate pathway (PubMed:26194095).[UniProtKB/Swiss-Prot Function]