

Product datasheet for **MR210612**

Pfkm (NM_021514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkm (NM_021514) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkm
Synonyms:	A1131669; ATP-PFK; Pfk-4; PFK-A; PFK-M; Pfk4; Pfka; Pfkx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210612 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACCCATGAAGAGCATCATGCAGCCAAAACCCTGGGGATCGGCAAGGCCATCGCCGTGTGACCTCTG
GTGGAGATGCCCAAGGTATGAATGCTGCCGTAGGGCTGTGGTCCGAGTTGGTATCTTCAGGGCGCCCG
CGTCTTCTTTGTCCATGAGGGTTACCAAGGCTGGTGGACGGTGGCGAGCACATCAGGGAGGCCACGTGG
GAGAGCGTGTCTATGATGCTTCAGCTGGGTGGCACAGTGATTGGAAGTCCCGATGCAAGGACTCCGGG
AGCGAGAAGGACGACTCCGGGCCGCCACAACCTGGTGAAGCGGGGGATACCAATCTGTGTGCATCGG
AGGCGATGGCAGCCTCACTGGGGCTGACACTTCCGTTCCAGAGTGGAGCGACTTGTGAATGATTTCCAG
AAAGACGGGAAGATCACAGCCGAGGAGGCTACAAAGTCCAGCTACCTGAACATCGTGGCCCTGGTTGGCT
CAATCGACAATGACTTCTGTGGCACTGATGACCATTGGTACTGACTCTGCCCTGCACAGGATTGTGGA
GATCGTAGACCCATCACCACCAGGCTCAGAGCCACCAGAGGACGTTTTGTGTTAGAAGTATGGGCCGC
CACTGTGGATACCTGGCCCTTGTCACTCTCTGTCTGTGGGGCCGACTGGGTTTTATTCTGAGTGT
CGCCAGACGATGACTGGGAAGAACACCTTTGTCGCCGGCTCAGTGAGACAAGGACCCGTGGCTCTCGTCT
CAACATCATCATTGTTGCTGAAGGTGCCATCGACAAGAACGGGAAGCCAATCACCTCAGAAGACATCAAG
AACCTGGTGGTGAAGCGCCTTGATATGACACCCGGTCACTGTTCTGGGACATGTACAGCGGGTGGGA
CACCATCAGCCTTTGACCGGATCCTGGGCAGCAGGATGGGTGTGGAAGCAGTGTGGCACTTTTGGAGGG
GACCCAGACACCCAGCCTGTGTGGTGAAGCTCTCTGGTAACCAGGCTGTGCGTTTCCCTCATGGAG
TGCGTGCAGGTGACCAAGACGTGACCAAGGCTATGGATGAGAAGAGATTGATGAAGCCATTAAGCTGA
GAGGCCGGAGCTTCATGAACAACCTGGGAGGTATACAAGCTTCTAGCTCATGTCAGACCCCAAGTCTTAA
GGGTGGGTTGCACACAGTGGCCGTGATGAATGTGGGGGCCCCAGCTGCTGGCATGAATGCCGCTGTTGCG
TCTACCGTGAGGATTGGCCTTATCCAGGCAACCGGGTGTGGTGTACATGATGGCTTTGAGGGTCTGG
CCAAAGGTGAGATTGAGGAGGCTGGCTGGAGCTATGTTGGAGGCTGGACTGGTCAAGGTGGTTCCAACT
TGGTACTAAAAGGACTCTCCCAAGAAGAACCTGGAACAGATCAGTGCCAACATAACCAAGTTTAAACATC
CAGGGCCTTGTGCATCATTGGGGCTTTGAGGCTTACACAGGGGGCTTGGAGCTGATGGAAGGCAGGAAGC
AGTTTGTGAGCTCTGCATCCCGTTTGTGGTCAATCCGGCCACGGTTTCCAATAACGTCCCTGGGTGAGA
CTTCAGCATCGGGCTGACACAGCACTGAACACCATCTGCACGACTTGTGACCGAATCAAGCAGTCTGCA
GCAGGCACCAAACGTCCGGTGTATATCATCGAGACTATGGGTGGCTACTGTGGCTACCTGGCCACCATGG
CAGGGCTGGCCGCTGGGGCTGATGCTGCCTACATTTTTGAGGAACCCCTCACCATTCGCGATCTCCAGGT
GAATGTTGAACATCTGGTGCAGAAGATGAAAACAACCTGTGAAGAGAGGCCTGGTGTGAGGAATGAGAAA
TGCAATGAGAATACTACTACTGACTTCATTTTCAACCTGTACTCTGAGGAGGGGAAGGGCATCTTTGACA
GCAGGAAGAACGTGCTTGGCCACATGCAGCAGGGTGGAAAGCCCAACTCCCTTTGACAGGAATTTGCCAC
TAAGATGGGTGCTAAGGCTATGAACTGGATGTCTGGGAAAATCAAGGAGAGTTACCGTAATGGACGGATC
TTTGCCAAACCCCTGACTCAGGCTGCGTTCTGGGGATGCGTAAGAGGGCCCTGGTCTTTCAGCCAGTAA
CTGAGCTGAAGGACCAGACAGACTTTGAACACCGAATCCCAAGAAGCAGTGGTGGCTGAAGCTGAGGCC
AATCCTCAAATCCTAGCCAAGTACGAGATTGATCTGGACACCTCCGACCACGCCACCTGGAGCACATT
TCAAGGAAACGGTCTGGAGAAGCCGCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210612 protein sequence

Red=Cloning site Green=Tags(s)

MTHEEHAAKTLGIGKAIAVLTSGGDAQGMNAAVRAVVRVGI FTGARVFFVHEGYQGLVDGGEHIREATW
ESVSMMLQLGGTVIGSARCKDFREREGRLRAAHNLVKGITNL CVIGDGSLTGADTFRSEWSDLLNDFQ
KDGKITAEEATKSSYLNI VGLVGSIDNDFCGTDMTIGTDSALHRIVEIVDAITTTAQSHQRTFVLEVMGR
HCGYLALVTSLSGADWVFIPECPPDDWEEHLCRRLSETRTRGSRNLNIIVAEGAIDKNGKPITSEDIK
NLVVKRLGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGNQAVRLPLME
CVQVTKDVTKAMDEKRFDEAIKLRGRSFMNNWEVYKLLAHVRPPVSKGGLHTVAVMNVGAPAAGMNAAVR
STVRIGLIQGNRVLVVDHGFEGGLAKGQIEEAGWSYVGGWTGQGGSKLGTKRTL PKNLEQISANITKFNI
QGLVIIGGFEAYTGGLELMEGRKQFDEL CIPFVVIPATVSNNVPGSDFSIGADTALNTICTTCDRIKQSA
AGTKRRVFI IETMGGYCGYLATMAGLAAGADAAYIFEFPFTIRD LQVNVEHLVQKMKTTVKRGLVLRNEK
CNENYTTDFIFNLYSEEGKGFDSRKNVLGHMQGGSP TPFDRNFATKMGAKAMNWMMSGIKESYRNGRI
FANTPDSGCVLGMRKRALVFQPVELKDQTD FEHRIPKEQWLLKLRPILKILAKYEIDLDTSDHAHLEHI
SRKRSGEAAV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_021514

ORF Size: 2343 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.

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_021514.3](#)

RefSeq Size: 2847 bp

RefSeq ORF: 2343 bp

Locus ID: 18642

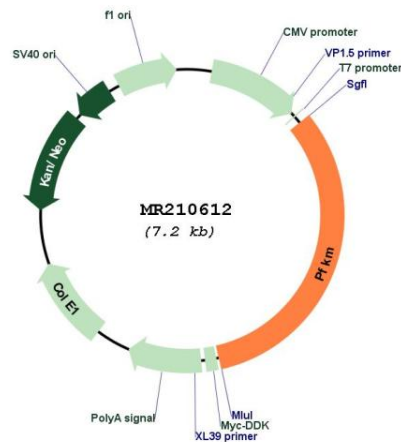
UniProt ID: [P47857](#)

Cytogenetics: 15 F1

MW: 85.3 kDa

Gene Summary: Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210612