

Product datasheet for **RC230541**

PFKM (NM_001166686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFKM (NM_001166686) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PFKM
Synonyms:	ATP-PFK; GSD7; PFK-1; PFK-A; PFK1; PFKA; PFKX; PPP1R122
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC230541 representing NM_001166686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCATAAAGACGAGTTTCATCTGAAATTTTTTCATGTGTGTGATTCACTCTGCCAGTTAGTCAGGACTC
 CTAGAGAACAGCTGGGAAGCTTCTACTTCCAGCATGCTCATACCAAAGCCACCACCAAAGACAGACAT
 CTTGAAGAGTCTAGATACTATGGATGATCCAGACACCGTGGGAAGCATACCTGTTTTCAAAACTGAGTGG
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 CTGGTGGAGATGCCCAAGGTATGAATGCTGCTGTGAGGGCTGTGGTTCGAGTTGGTATCTTCACCGGTGC
 CCGTGTCTTCTTTGTCCATGAGGGTTATCAAGGCCTGGTGGATGGTGGAGATCACATCAAGGAAGCCACC
 TGGGAGAGCGTTTCGATGATGCTTCAGCTGGGAGGCACGGTATTGGAAGTCCCGGTGCAAGGACTTTC
 GGAACGAGAAGGACGACTCCGAGCTGCCTACAACCTGGTGAAGCGTGGGATCACCAATCTCTGTGTGAT
 TGGGGGTGATGGCAGCCTCACTGGGGCTGACACCTTCCGTTCTGAGTGGAGTGACTTGTGAGTGACCTC
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 GGAAATTTAGATGCCATCACTACCCTGCCAGAGCCACCAGAGGACATTTGTGTTAGAAGTAATGGGC
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 CGCTCCACTGTGAGGATTGGCCTTATCCAGGGCAACCGAGTGTCTGTTGTCATGATGGTTTCGAGGGCC
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 ATCACCCGAAGCGTCCGGGAAGCTGCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230541 representing NM_001166686
 Red=Cloning site Green=Tags(s)

MHKDEFHLKFFMCVIQSRQLV RTPQRTAGEASTSSMLIPKPPPKTDILKSLDTMDDPDTVGSIPVFKTEW
 IMTHEEHAAKTLGIGKAI AVL TSGGDAQGMNAAVRAVVRVGI FTGARVFFVHEGYQGLVDGGDHKEAT
 WESVSMMLQLGGTVIGSARCKDFREREGRLRAAYNLVKRGITNL CVIGGGSLTGADTFRSEWSDLLSDL
 QKAGKITDEEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTA QSHQRTFVLEVMG
 RHCGYLALVTSLSGADWVFIPECPPDDWEHL CRRLSETRTRGSRNLNII IVAEGAIDKNGKPI TSEDI
 KNLVVKRLGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGNQAVRPLM
 ECVQVTKDVTKAMDEKKFDEALKLRGRSFMNNWEVYKLLAHVRPPVSKSGSHTVAVMNVGAPAAGMNAAV
 RSTVRIGLIQGNRVLVVDHGFELAKGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKSFEQISANITKFN
 IQGLVIIGGFEAYTGLELMGRKQFDEL CIPFVVIPATVSNNVPGSDFSVGADTALNTICTTCDRIKQS
 AAGTKRRVFIETMGYCYLATMAGLAAGADAAYIFEFPFTIRDLQANVEHLVQKMKTTVKRGLVLRNE
 KCNENYTTDFIFNLYSEEGKGFDSRKNVLGHMQQGSPTPFDRNFATKMGAKAMNWMGSKIKESYRNGR
 IFANTPDSGCVLGMRKRALVFQPAELKDQTD FEHRIPKEQWWLKL RPILKILAKYEIDLDTSDHAHLEH
 ITRKRSGEAAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

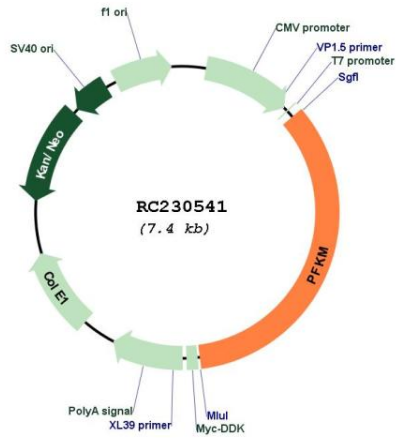
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001166686
ORF Size:	2553 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:	<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:	NM_001166686.2
RefSeq ORF:	2556 bp
Locus ID:	5213
UniProt ID:	P08237
Cytogenetics:	12q13.11
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway
MW:	93.7 kDa
Gene Summary:	Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. Tetramer composition varies depending on tissue type. This gene encodes the muscle-type isozyme. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RC230541