OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR221897

Pfkm (NM_001163487) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkm (NM_001163487) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkm
Synonyms:	AI131669; 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)

View online »

ORF Nucleotide Sequence:

>MR221897 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCCATGAAGAGCATCATGCAGCCAAAACCCTGGGGATCGGCAAGGCCATCGCCGTGTTGACCTCTG
GTGGAGATGCCCAAGGTATGAATGCTGCCGTCAGGGCTGTGGTCCGAGTTGGTATCTTCACGGGCGCCCG
CGTCTTCTTTGTCCATGAGGGTTACCAAGGCCTGGTGGACGGTGGCGAGCACATCAGGGAGGCCACGTGG
GAGAGCGTGTCTATGATGCTTCAGCTGGGTGGCACAGTGATTGGAAGTGCCCGATGCAAGGACTTCCGGG
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AGGCGATGGCAGCCTCACTGGGGCTGACACTTTCCGTTCAGAGTGGAGCGACTTGCTGAATGATTTCCAG
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CACTGTGGATACCTGGCCCTTGTCACCTCTCTGTCCTGTGGGGCCGACTGGGTTTTTATTCCTGAGTGTC
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CAACATCATCATTGTTGCTGAAGGTGCCATCGACAAGAACGGGAAGCCAATCACCTCAGAAGACATCAAG
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GACCCCAGACACCCCAGCCTGTGTGGTGAGCCTCTCTGGTAACCAGGCTGTGCGTTTGCCCCTCATGGAG
TGCGTGCAGGTGACCAAAGACGTGACCAAGGCTATGGATGAGAAGAGATTTGATGAAGCCATTAAGCTGA
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CAGGGCCTTGTCATCATTGGGGGCTTTGAGGCTTACACAGGGGGCTTGGAGCTGATGGAAGGCAGGAAGC
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AATCCTCAAAATCCTAGCCAAGTACGAGATTGATCTGGACACCTCCGACCACGCCCACCTGGAGCACATT
TCAAGGAAACGGTCTGGAGAAGCCGCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221897 protein sequence
Red=Cloning site Green=Tags(s)

MTHEEHHAAKTLGIGKAIAVLTSGGDAQGMNAAVRAVVRVGIFTGARVFFVHEGYQGLVDGGEHIREATW
ESVSMMLQLGGTVIGSARCKDFREREGRLRAAHNLVKRGITNLCVIGGDGSLTGADTFRSEWSDLLNDFQ
KDGKITAEEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIVEIVDAITTTAQSHQRTFVLEVMGR
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NLVVKRLGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGNQAVRLPLME
CVQVTKDVTKAMDEKRFDEAIKLRGRSFMNNWEVYKLLAHVRPPVSKGGLHTVAVMNVGAPAAGMNAAVR
STVRIGLIQGNRVLVVHDGFEGLAKGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKNLEQISANITKFNI
QGLVIIGGFEAYTGGLELMEGRKQFDELCIPFVVIPATVSNNVPGSDFSIGADTALNTICTTCDRIKQSA
AGTKRRVFIIETMGGYCGYLATMAGLAAGADAAYIFEEPFTIRDLQVNVEHLVQKMKTTVKRGLVLRNEK
CNENYTTDFIFNLYSEEGKGIFDSRKNVLGHMQQGGSPTPFDRNFATKMGAKAMNWMSGKIKESYRNGRI
FANTPDSGCVLGMRKRALVFQPVTELKDQTDFEHRIPKEQWWLKLRPILKILAKYEIDLDTSDHAHLEHI
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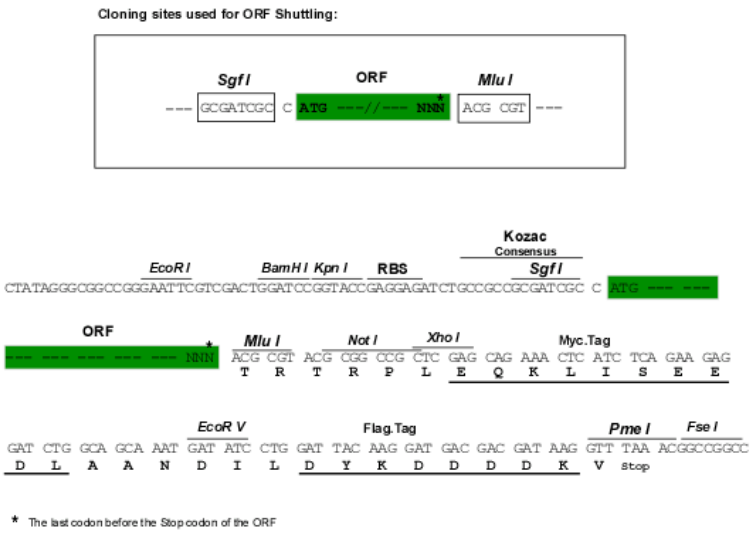
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001163487
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_001163487.1, NP_001156959.1

RefSeq Size: 2894 bp

RefSeq ORF: 2343 bp

Locus ID: 18642

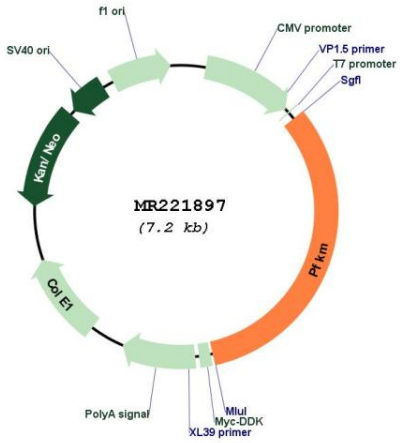
UniProt ID: P47857

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 MR221897