

Product datasheet for **RR216743**

Pfkfb1 (NM_001271063) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkfb1 (NM_001271063) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkfb1
Synonyms:	Pfkfb01; PFRX
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR216743 representing NM_001271063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACCACCGGACCTGCTTTGGGGTCTGTAATGCAAGAGAGCCATTGGAAAATTAGCGATGGAAG
 AAAAAGCCTCTAAGAGAACAGCCTCCATACCACAGTTCACATAATTCTCCACGATGGTGATCATGGTGGG
 TTTACCAGCTCGAGGCAAGACCTACATCTCTACGAAGCTCACACGCTATCTCAACTGGATAGGAACACCA
 ACTAAAGTGTAAATTTAGGTCAAGTATCGACGAGAGGAGGAGTACAGGAACTATGAATCTTTTCGCC
 CAGACAACACAGAGGCCAGCTTATCAGGAAGCAGTGTGCTCTAGCAGCCCTAAAGGATGTCATAAGTA
 TCTCAGCCGCGAGGAAGTCAAGTGTGCGGTTTTGATGCCACCAACTACCAGAGAACGACGATCGTTG
 ATTCTACAGTTTCTAAGGAACATGGTTATAAGGTCTTCTTTATTGAGTCTATTTGTAATGACCCCGAAA
 TCATTGCAGAAAACATCAAGCAAGTAACTTGGTAGTCTGATTACATAGACTGTGACCAAGAAAAGGT
 TTTGGAAGACTTCTAAAGAGAATAGAGTCTATGAGATCAACTACCAACCTTTGGATGAGGAATTGGAC
 AGCCACCTGTCTACATCAAGATCTTCGACGTGGGCACACGCTACATGGTAAATCGAGTGCAGGACCAGG
 TTCAGAGCCGTACAGCCTACTACCTCATGAACATCCATGTGCACACCTCGATCTATCTACCTATGCCGCCA
 TGGTGAGAGTGAACCTTAGAGGCCGCAATTGGAGGTGACTCTGGCCTCTCAGCTCGGGGCAAGCAG
 TATGCCTATGACTAGCCAACCTCATCCGGTCTCAAGGCATCAGTCCCTGAAAGTATGGACTAGCCACA
 TGAAGAGGACCATTAGACCCGCTGAAGCCCTAGGTGTCCCTATGAACAGTGAAGGCCCTGAATGAGAT
 TGATGCGGGTGTCTGTGAAGAGATGACCTATGAAGAAATTCAGGAACACTACCCTGAGGAATTTGCACTA
 CGGGACCAGGATAAATATCGTTACCGCTATCCCAAGGGAGAGTCCATGAGGATCTGGTTCAGCGTCTTG
 AACCGTTATAATGGAGCTAGAACGGCAAGAAAATGACTGGTGATCTGTCACCAGGCTGCATCGGGTG
 CCTCCTGGCATACTTCTGGATAAAAAGTTCAGATGAGTGCCTATCTCAAGTGTCTCTGCATACTGTG
 CTCAAACCTCACACCTGTGGCTTATGGCTGCAGAGTGGAGTCCATCTACCTGAATGTGGAGGCTGTGAACA
 CACACCGGACAAGCCTGAGAATGTGGACATCACCCGTGAAGCTGAGGAAGCCTTGGACTGTACTCTG
 CCATTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216743 representing NM_001271063
 Red=Cloning site Green=Tags(s)

MPPTGPALGVCKCKRAIGKLAMEEKASKRTASIPQFTNSPTMVMVGLPARGKTYISTKLTRYLNWIGTP
 TKVFNLGQYRREAVSYRNYEFFRPDNTAQLIRKQCALAALKDVHKYLSREEGHVAVFDATNTRRRSL
 ILQFAKEHGYKVFVIESICNDPEIIAENIKQVCLGSPDYIDCDQEKVLEDFLKRIECYEINYQPLDEELD
 SHLSYIKIFDVGTRYMVNRVQDHVQSRTAYYLMNIHVTPRSIYLCRHGESENLNRGRIIGDSSLARGKQ
 YAYALANFIRSQGISSLKVTSHMKRTIQTAELGVPYEQWKALNEIDAGVCEEMTYEEIQEHYEEFAL
 RDQDKYRYRYPKGESYEDLVQRLEPVMELERQENVLVIHQAVMRCLLAYFLDKSSDELPLYLKCPLHTV
 LKLTVPVAYGCRVESIYLNVEAVNTHRDKPENVDITREAEALDTPAHY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

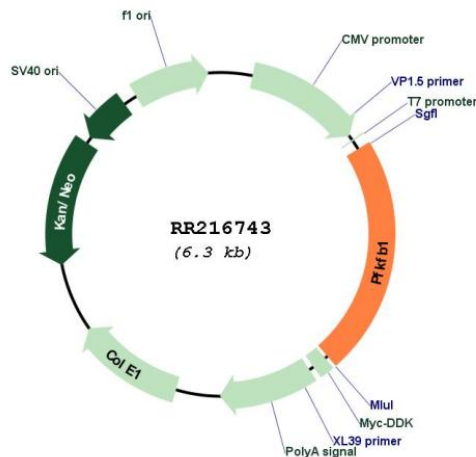
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271063

ORF Size: 1407 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_001271063.1](#), [NP_001257992.1](#)

RefSeq Size: 1707 bp

RefSeq ORF: 1410 bp

Locus ID: 24638

Cytogenetics: Xq13

MW: 54.2 kDa

Gene Summary: bifunctional enzyme; catalyzes synthesis and degradation of fructose 2,6-bisphosphate, a ubiquitous stimulator of glycolysis [RGD, Feb 2006]