

## Product datasheet for **RR214187**

### **Pfkfb4 (NM\_019333) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pfkfb4 (NM_019333) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkfb4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR214187 representing NM\_019333  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCCCCACGGAACTGACCCAGAATCCCCTGAAGAAGATCTGGATGCCATACAGCAATGGGAGGC  
 CCGCCCTGCACGCCAGCCAACGTGGTGTCTGCATGACCAACTGCCGACACTCATCGTCATGGTGGGCCT  
 GCCAGCCAGGGGCAAGACCTACATTTCTAAGAAGCTGACCCGGTACCTCAACTGGATTGGCGTGCCTACT  
 CGGGAATCAACGTGGGTCAGTATCGCCGGGACATGGTCAAGACATACAAATCTTTTGGATTCTTCTCTCC  
 CAGACAATGAAGAGGGCCTGAAAATCAGGAAGCAGTGTGCCTTGGCAGCCCTCAATGACGTCCGGAAGTT  
 CCTCAGTGAGGAGGGGGACACGTGGCGGTTTTTGTGCTACCAATACCACCCGAGAACGGAGAGCGATG  
 ATCTTTAACTTTGGAGAACAGAATGGCTATAAGACCTTCTTTGTTGAATCTATCTGTGTGGATCCTGAGG  
 TCATTGCTGCCAACATCGTGAAGTGAAGCTGGGCAGCCCTGACTATGTGAACCCGGGACAGCGACGAAGC  
 CACTGAGGACTTCATGAGGCGCATTGAATGCTATGAAAACCTCTATGAGTCTCTGGATGAAGAACAGGAC  
 AGGGATCTGTCTACATCAAGATCATGGACGTGGGGCAGAGTTATGTGGTGAACCGTGTTCGCCACCACA  
 TCCAGAGTCGCATCGTTTATTACCTCATGAACATCCATGTGACACCCCGCTCCATCTACCTCGCCGGCA  
 CGGGGAGAGTGAGCTCAACCTCAAGGGCCGGATTGGTGGGGACCTGGACTCTCCCCCGGGGCCGGGAG  
 TTTTCAAAGCACCTAGCTCAGTTCATCAGTGACCAAGAATCAAGGACCTGAAGGTCTGGACGAGCCAGA  
 TGAAGAGGACGATCCAGACAGCCGAGGCCTGAGTGTCCCTTATGAGCAGTGAAGGTCTCAACGAGAT  
 TGACGCGGGTGTCTGTGAGGAAATGACCTACGAAGAAATCCAGGACCACTACCCGCTGGAGTTTGTCTG  
 AGGGACCAGGACAAGTACCGGTACCGCTACCCGAAGGGCGAGTCCATGAAGACCTGGTGCAGCGGCTGG  
 AGCCTGTATCATGGAGCTGGAGAGGCAGGAAACGTGCTAGTCATTTGCCACCAGGCTGTGATGCGTTG  
 CCTCCTGGCCTACTTCTTGACAAGGCAGCAGAAGAGTGCCTACCTCAAATGCCCTTGCACACAGTC  
 CTGAAGCTCACACCTGTGGCTTACGGTTGTAAGTGGAGTCCATATTCCTGAATGTGGCAGCTGTGAACA  
 CACACCGAGACAGACCTCAGAATGTAGACATATCCAGGCCTTCAGAGGAAGCCCTGTGCACAGTTCCTGC  
 TCACCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214187 representing NM\_019333  
 Red=Cloning site Green=Tags(s)

MASPRELTQNPLKKIWPYSNGRPALHASQRGVCMNCP TLIVMVGLPARGKTYISKKLTRYLNWIGVPT  
 REFNVGQYRRDMVKTYKSF EFLPDNEELKIRKQCALAALNDVRKFLSEEGHVAVFDATNTTERRRAM  
 IFNFGQNGYKTFV VESICVDPEVIAANIVQVKLGSPDYVNRDSDEATEDFMRRIECYENSYESLDEEQD  
 RDL SYIKIMDVGQSYV VNRVADHIQSRIVYYLMNIHVTPRSIYLCRHGESELNLKGRIGGDPGLSPRGRE  
 FSKHLAQFISDQNIKDLK VWT SQMKRTIQTA EALSVPYEQWV LNEIDAGVCEEMTYEEIQDHYPLEFAL  
 RDQDKYRYRYPKGESY EDLVQRLEPVIMELERQENVLVICHQAVMRCLL AYFLDKAAEELPYLKCP LHTV  
 LKLT PVA YGCKVESIFLNVA AVNTHRRPQNVDISR PSEELVTPAHQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

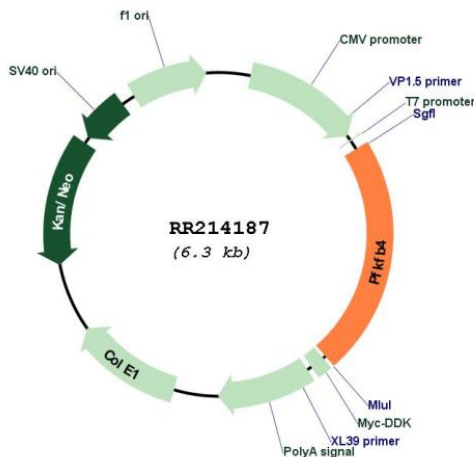
**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_019333

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_019333.1</a></u> , <u><a href="#">NP_062206.1</a></u>
<b>RefSeq Size:</b>	1739 bp
<b>RefSeq ORF:</b>	1410 bp
<b>Locus ID:</b>	54283
<b>UniProt ID:</b>	<u><a href="#">P25114</a></u>
<b>Cytogenetics:</b>	8q32
<b>MW:</b>	54.2 kDa
<b>Gene Summary:</b>	has both fructose-2,6-bisphosphate 2-phosphatase and 6-phosphofructo-2-kinase activities; plays a role in fructose 2,6 bisphosphate metabolism and regulation of glycolysis [RGD, Feb 2006]