

Product datasheet for **RR209579**

Pfkfb3 (NM_057135) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Pfkfb3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RR209579 representing NM_057135
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCTTTGGAAGTACCAGAGCCGGGTGCAGAAGATCTGGTGCCTGTCGATACCGACCCTCGTTGC
 CCAGATCCTGTGGGCCGAAGCTGACCAACTCCCAACGGTGATTGTGATGGTGGGGCTCCCAGCCCGGG
 TAAGACTTACATCTCCAAGAAGCTGACTCGCTACCTCAACTGGATAGGTGTTCCAACGAAAGTGTTCAAT
 GTGGGAGAATACCGACGGGAGGCTGTGAAGCAATACAGCTCTTACAACCTCTCCGCCCTGACAATGAGG
 AGGAGGACAGATTGCAGTTTTTGTATGCCCAATACGACGAGAGAAAGGAGGCACATGATCCTTCATTTT
 GCCAAAGAAATGACTTCAAGGCATTTTTCATCGAGTCCGTCTGTGACGACCCTACAGTTGTGGCCTCCA
 ATATCATGGAAGTAAAATCTCCAGCCCGATTACAAAGACTGCAACTCCGAGAAGCCATGGACGACTT
 CATGAAGAGGATCAACTGCTACGAAGCCAGCTACCAGCCTCTTGACCTGATAAATGTGACAGGGACCTG
 TCATTCATCAAAGTGATTGACGTTGGCCGAGGTTCTTGGTGAACAGAGTGCAGGACCACATCCAGAGCC
 GAATCGTGTATTACCTGATGAACATCCACGTGCAGCCCGGACCCTACCTGTGTGCGCACGGCGAGAA
 TGAGTACAACGTGCAGGGCAAGATTGGGGCGACTCAGGCCTGTCCAGCAGAGGCAAGAAGTTCGCCAAT
 GCCCTGAGCAAGTTCGTTGAAGAGCAGAATCTGAAGGACCTCCGCGTGTGGACCAAGTCAAGTGAAGTA
 CCATCCAGACCGCGGAGGCCCTAAGGCTCCCTACGAGCAGTGGAAGGCGCTCAATGAGATTGATGCTGG
 TGTGTGTGAGGAACTAACCTATGAGGAGATCAGAGACACCTACCCTGAGGAGTATGCACTGCGTGAGCAA
 GACAAATACTACTACCGCTATCCACAGGCGAGTCTACCAGGATCTTGCCAGCGCCTGGAGCCTGTGA
 TCATGGAATTAGAGCGCCAAGAGAAGTATTGGTCATCTGTACCAGGCTGCTGCGCTGCCTACTAGC
 CTACTTCCTTGACAAGAGTGCAGAGGAGATGCCATACCTGAAATGCCACTTCACACAGTCTGAAACTG
 ACGCCCGTGGCGTATGGGTGCCGTGTGGAGTCCATTTACTTGAATGTAGAATCAGTGAGCACGCATCGGG
 AGAGGTGAGAGGCTGTCAAAATACAACACTTTGCCAGTGTAGTACAGCCTTCTCTTACACCGAAGTGA
 CTTTCTGTCTGTGGAGTCCGCAAAACAGGATGCAAGAAGGACCTAACCTCTCATGAGACGCAATAGT
 GTCACCCCACTAGCCAGCCCCGAGCCACCAAAAGCCTCGCATCAACAGCTTTGAGGAGCATGTGGCTT
 CCACTTCTGCTGCCCTGCCAAGCTGCCTGCCCCGGAAGTGCACGACGCTGCCCGGACAACCTTTGCT
 AGGGAAGCCTGTCTACGAAGTGTCTGTCACATTTTTTCAAAGTTTTCTCTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209579 representing NM_057135
 Red=Cloning site Green=Tags(s)

MPLELTQSRVQKIWVPVDHRPSLPRSCGPKLTNSPTVIVMVGLPARGKTYISKKLTRYLNWIGVPTKVFN
 VGEYRREAVKQYSSYNFFRPDNEEAMRVRKQCALAALRDVKSYLEKEGGQIAVFDATNTTRERRHMLHF
 AKENDFKAFFIESVCDPTVVASNIMEVKISSPDYKDCNSAEAMDDFMKRINCYEASYQPLDPDKCDRL
 SFIKVIDVGRRFLVNRVQDHIQSRIVYYLMNIHVQPRTIYLCRHGENEYNVQKIGGDSGLSSRGKFFAN
 ALSKFVEEQNLKDLRVWTSQKSTIQTAELRLPYEQWKALNEIDAGVCEELTYEEIRDTYPEEYALREQ
 DKYYYYRYPTGESYQDLVQRLEPVIMELERQENVLVICHQAVLRCLLAYFLDKSAEEMPYKCPHVLKLL
 TPVAYGCRVESIYLNVESVSTHRERSEAVKIQHFASVVRPSSYTELDLFSVESAKQDAKKGNPLMRRNS
 VTPLASPEPTKKPRINSFEEHVASTAALPSCLPPEVPTQLPGQPLL GKACLRVCHIFSKFSPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_057135

ORF Size: 1665 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.

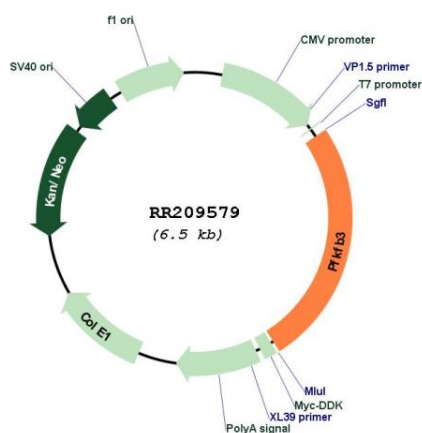
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_057135.1](#), [NP_476476.1](#)

RefSeq Size: 2148 bp

RefSeq ORF:	1668 bp
Locus ID:	117276
UniProt ID:	<u>O35552</u>
Cytogenetics:	17q12.2
MW:	63.7 kDa
Gene Summary:	catalyzes the biosynthesis and degradation of fructose 2,6-bisphosphate, which plays a role in glycolysis [RGD, Feb 2006]

Product images:



Circular map for RR209579