

Product datasheet for **RR200495**

Pfkfb2 (NM_001033965) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkfb2 (NM_001033965) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkfb2
Synonyms:	PFK-2; RH2K
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200495 representing NM_001033965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGAGAATAGTACATTTTCCACAGAAGACAGCAGCAGCAGCTATAAACCCACGCCTCAAACC
 TCCGAAGGGCAGGGAAGAAATGCTCATGGGCTTCTACATGACCAACTCCCAACTCATTGTTATGAT
 TGGCTTGCAGCCCGGGTAAGACTTATGTGTCCAAGAAATTAACACGCTACCTGAACTGGATTGGAGTA
 CCTACCAAAGTGTAACTTCTGGTGTATATCGACGGGAAGCAGTCAAGTCTATAAGTCTATGACTTCT
 TTCGACATGACAATGAAGAGGCCATGAAGATCCGCAAACAGTGTGCCCTGGTGGCACTGGAAGATGTGAA
 GGCCTACTTTACTGAAGAGAGTGGCAGATCGCGGTGTTTGTGCCACCAATACCACTCGGGAGAGGAGG
 GACATGATTTTGAACCTTCCCAAGCAGAATGCCTTCAAGTATTCTTTGTGGAATCTGTGTGTGATGATC
 CTGATGTCATTGCTGCCAATATTCTGGAGTAAAAGTGTCAAGCCCTGACTACCCCGAAAGGAATAGGGA
 GAATGTGATGGAGACTTCTGAAGAGAATTGAGTGTACAAGTCACTTACCAGCCCTTGACCCAGAC
 AACTATGATAAGGACCTCTCGTTCAAAAGGTGATGAATGTAGGCCAGAGTTTCTGGTCAACAGAGTTC
 AGGACTACATCCAGAGTAAGATTGTCTACTACCTGATGAACATCCATGTCCATCCTCGCACCATCTATCT
 GTGCCGGCACGGAGAGCGAATTAATCTTTGGGAAAGATTGGGGTGACTCTGGCCTTTCGTTGCGA
 GGAAAGCAGTTTGTCTCAGGCTCTGAAGAAGTTTCTGGAGGAACAGGAGATCCAGGACCTCAAAGTGTGGA
 CAAGCCAGTTGAAGAGGACAATTCAGACTGCTGAGTCTCTTGGGGTGACCTATGAGCAATGGAAGATCCT
 AAATGAGATTGATGCTGGCGTGTGTGAGGAGATGACTTATTCGGAGATCGAACACGGTATCCAGAGGAA
 TTTGCACTTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGACCTGGTGC
 AGCGGCTGGAGCCTGTGATCATGGAGCTGGAGCGGCAAGGCAACGTCCTCGTTATCTCTACCAGGCTGT
 CATGCGCTGCCTCTGGCCTACTTCTGGATAAAGGCGCAGATGAGTTGCCGTACTTGAGGTGCCCCCTC
 CACATCATCTTCAAACCTACTCCTGTGGCCTATGGTTGCAAAGTGGAAACAATTACACTGAATGTGGAAG
 CTGTGGACACACATCGTGACAAGCCAACCTCACAACCTCCCAAGAGCCAAACCCCTGTAAGGATGAGAAG
 GAACAGCTTTACGCCTCTGTCCAGTTCGAACACAATAAGGCGTCCAAGAAATTACAGTGTGGGAGCCGA
 CCCCTCAAGCCCTCAGCCCTCTCCGTGCCCTGGATATGCAAGAAGGGGCGGACCAGCCGAAGACCCAAG
 TCCAGCAAGGGTCAGCCAGGCTACAGAACATCTACAGAAAGCCCTGGAGTTTCAAATGGACATAGGGA
 AGTGGAGAATGTGCTGGTAAGCATAGACGCCCTCAATGGCATCCCTCACTTTGCTCTCC

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RR200495 representing NM_001033965
 Red=Cloning site Green=Tags(s)

MSENSTFSTEDSSSSSYKPHASNLRRAGKKCSWASYMTNSPTLIVMIGLPARGKTYVSKKLTRYLNWIGV
 PTKVFNLGVYRREAVKSYKSYDFFRHDNEEAMKIRKQCALVALEDVKAYFTEESGQIAVFDATNTTRERR
 DMILNFAKQNAFKVFFVESVCDPDVIAANILEVKVSSPDYPERNRENVMEDFLKRIEYKVTYQPLDPD
 NYDKDLSFIKVMNVGQRFVLVNRVQDYIQSKIVYYLMNIHVHPRTIYLCRHGESEFNLLGKIGGDSLSLR
 GKQFAQALKKFLEEQEIQDLKVWTSQLKRTIQTAEISLGVTYEQWKILNEIDAGVCEEMTYSEIEQRYPEE
 FALRDQEKYLRYPPGESYQDLVQRLEPVIMELERQGNLVISHQAVMRCLLAYFLDKGADELPLYRCP
 HIIFKLTVPVAYGCKVETITLNVEAVDTHRDKPTHNFPKSQTPVRMRNSFTPLSSNTIRRPRNYSVGS
 RPLKPLSPLRALDMQEGADQPKTQVQGSQAQATEHLQKALEFANGHREVENVLAKHRRPSMASLTLSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

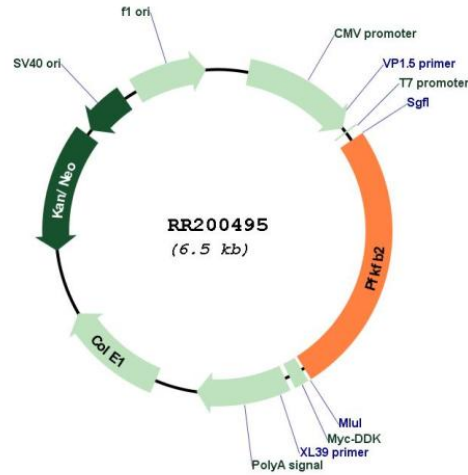
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001033965
ORF Size:	1671 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_001033965.2 , NP_001029137.1
RefSeq Size:	3824 bp
RefSeq ORF:	1674 bp
Locus ID:	24640
UniProt ID:	Q9JH5
Cytogenetics:	13q13
MW:	64.2 kDa
Gene Summary:	catalyzes the synthesis and degradation of fructose 2,6-bisphosphate [RGD, Feb 2006]