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Product datasheet for RR216645

Pfkfb1 (NM_001271064) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkfb1 (NM_001271064) 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
ORF Nucleotide Sequence:	>RR216645 representing NM_001271064 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCACCCACCGGACCTGCTTTGGGGGTCTGTAAATGCAAGAGAGCCATTGGAAAATTAGCGATGGAAG AAAAAGCCTCTAAGAGAACAGTGTTTAATTTAGGTCAGTATCGACGAGAGGCAGTGAGTTACAGGAACTA TGAATTCTTTCGCCCAGACAACACAGAGGCCCAGCTTATCAGGAAGCAGTGTGCTCTAGCAGCCCTAAAG GATGTCCATAAGTATCTCAGCCGCGAGGAAGGTCATGTTGCGGTTTTTGATGCCACCAACACTACCAGAG AACGACGATCGTTGATTCTACAGTTTGCTAAGGAACATGGTTATAAGGTCTTCTTTATTGAGTCTATTTG TAATGACCCCGAAATCATTGCAGAAAACATCAAGCAAGTGAAACTTGGTAGTCCTGATTACATAGACTGT GACCAAGAAAAGGTTTTGGAAGACTTTCTAAAGAGAATAGAGTGCTATGAGATCAACTACCAACCTTTGG ATGAGGAATTGGACAGCCACCTGTCCTACATCAAGATCTTCGACGTGGGCACACGCTACATGGTAAATCG AGTGCAGGACCACGTTCAGAGCCGTACAGCCTACTACCTCATGAACATCCATGTCACACCTCGATCTATC TACCTATGCCGCCATGGTGAGAGTGAACTCAACCTTAGAGGCCGCATTGGAGGTGACTCTGGCCTCTCAG CTCGGGGCAAGCAGTATGCCTATGCACTAGCCAACTTCATCCGGTCTCAAGGCATCAGCTCCCTGAAAGT ATGGACTAGCCACATGAAGAGGACCATTCAGACCGCTGAAGCCCTAGGTGTCCCCTATGAACAGTGGAAG GCCCTGAATGAGATTGATGCGGGTGTCTGTGAAGAGATGACCTATGAAGAAATTCAGGAACACTACCCTG AGGAATTTGCACTACGGGACCAGGATAAATATCGTTACCGCTATCCCAAGGGAGAGTCCTATGAGGATCT GGTTCAGCGTCTTGAACCAGTTATAATGGAGCTAGAACGGCAAGAAAATGTACTGGTGATCTGTCACCAG GCTGTCATGCGGTGCCTCCTGGCATACTTCCTGGATAAAAGTTCAGATGAGCTGCCCTATCTCAAGTGTC CTCTGCATACTGTGCTCAAACTCACACCTGTGGCTTATGGCTGCAGAGTGGAGTCCATCTACCTGAATGT GGAGGCTGTGAACACACACCGGGACAAGCCTGAGAATGTGGACATCACCCGTGAAGCTGAGGAAGCCTTG GACACTGTACCTGCCCATTAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

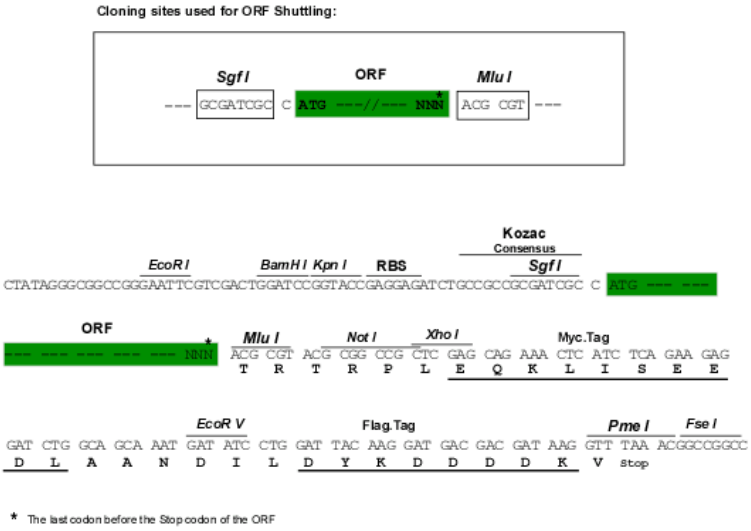
>RR216645 representing NM_001271064
Red=Cloning site Green=Tags(s)

MPPTGPALGVCKCKRAIGKLAMEEKASKRTVFNLGQYRREAVSYRNYEFFRPDNTEAQLIRKQCALAALK
DVHKYLSREEGHVAVFDATNTTRERRSLILQFAKEHGYKVFFIESICNDPEIIAENIKQVKLGSPDYIDC
DQEKVLEDFLKRIECYEINYQPLDEELDSHLSYIKIFDVGTRYMVNRVQDHVQSRTAYYLMNIHVTPRSI
YLCRHGESELNLRGRIGGDSGLSARGKQYAYALANFIRSQGISSLKVWTSHMKRTIQTAEALGVPYEQWK
ALNEIDAGVCEEMTYEEIQEHYPEEFALRDQDKYRYRYPKGESYEDLVQRLEPVIMELERQENVLVICHQ
AVMRCLLAYFLDKSSDELPYLKCPLHTVLKLTPVAYGCRVESIYLNVEAVNTHRDKPENVDITREAEEAL
DTVPAHY

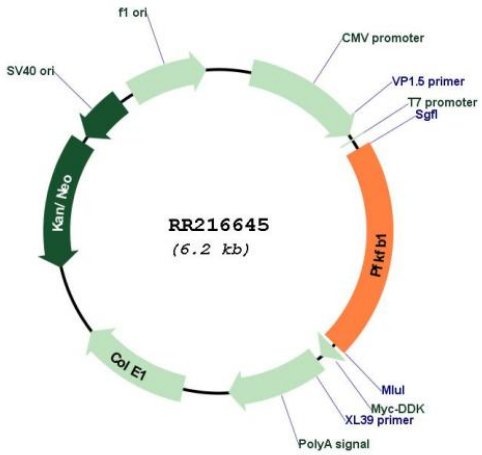
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271064

ORF Size:	1281 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_001271064.1, NP_001257993.1
RefSeq Size:	1581 bp
RefSeq ORF:	1284 bp
Locus ID:	24638
Cytogenetics:	Xq13
MW:	49.5 kDa
Gene Summary:	bifunctional enzyme; catalyzes synthesis and degradation of fructose 2,6-bisphosphate, a ubiquitous stimulator of glycolysis [RGD, Feb 2006]