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Product datasheet for MR215696

Pfkfb4 (NM_173019) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkfb4 (NM_173019) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkfb4
Synonyms:	C230090D14
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR215696 representing NM_173019
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCTCCACGGGAACTGACCCAGAATCCCCTGAAGAAGATCTGGATGCCGTACAGCAATGGCAGGC
CCGCTCTGCACGCCAGCCAGCGTGGTGTCTGCATGACTAACTGTCCGACACTCATTGTCATGGTGGGCCT
GCCAGCCCGGGGCAAGACCTACATTTCTAAGAAGCTGACGCGGTACCTCAACTGGATTGGCGTGCCTACT
CGGGAATTCAACGTTGGTCAGTATCGCCGGGACATAGTCAAGACGTACAAATCTTTTGAGTTTTTCCTCC
CAGACAATGAAGAAGGCCTGAAAATCAGGAAGCAGTGTGCCTTAGCAGCCCTCAGTGATGTCCGGAAGTT
CCTCAGTGAGGAGGGGGGACATGTGGCGGTTTTTGATGCAACCAATACGACCCGAGAGCGGAGAGCGATG
ATCTTTAACTTTGGAGAACAGAATGGCTACAAGACCTTCTTTGTTGAATCTATCTGTGTGGATCCTGAGG
TTGTTGCTGCCAACATCGTGCAAGTGAAGCTGGGCAGCCCTGACTATGTCAACCGGGACAGCGACGAAGC
CACCGAAGACTTCATGAGGCGCATTGAATGCTATGAAAACTCATATGAGTCGCTGGATGAAGACCTGGAC
AGGGATCTGTCCTACATCAAGATCATGGACGTGGGCCAGAGCTATGTGGTGAACCGTGTTGCTGATCACA
TCCAGAGTCGCATCGTTTATTACCTCATGAACATCCATGTGACACCCCGCTCCATCTACCTCTGCCGGCA
TGGGGAGAGCGAGCTAAACCTCAAGGGCCGGATTGGTGGGGATCCTGGACTGTCCCCCCGGGGCCGGGAG
TTTTCCAAGCATCTGGCCCAGTTCATCAGTGACCAGAACATTAAGGATCTGAAGGTCTGGACGAGCCAGA
TGAAGAGGACGATCCAGACAGCCGAGGCGCTGAGCGTCCCTTATGAGCAGTGGAAGGTCCTCAACGAGAT
CGATGCGGGCGTCTGTGAGGAAATGACCTACGAAGAAATCCAGGATCACTACCCGCTGGAGTTTGCCCTG
CGGGATCAGGACAAGTACCGGTACCGGTACCCGAAGGGTGAGTCCTATGAAGACCTGGTGCAGCGGCTGG
AGCCCGTCATCATGGAACTGGAGAGGCAGGAGAATGTGTTGGTCATTTGCCACCAGGCTGTCATGCGCTG
CCTCCTGGCCTACTTCCTTGACAAGGCAGCTGAAGAGCTGCCCTACCTCAAATGCCCCTTGCACACAGTC
CTGAAGCTCACACCCGTGGCTTACGGTTGTAAAGTGGAGTCCATATTCCTGAACGTGGCAGCTGTGAACA
CTCACCGAGACAGACCTCAGAATGTAGACATATCCAGGCCTTCAGAGGAAGCCCTTGTCACAGTCCCTGC
TCACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

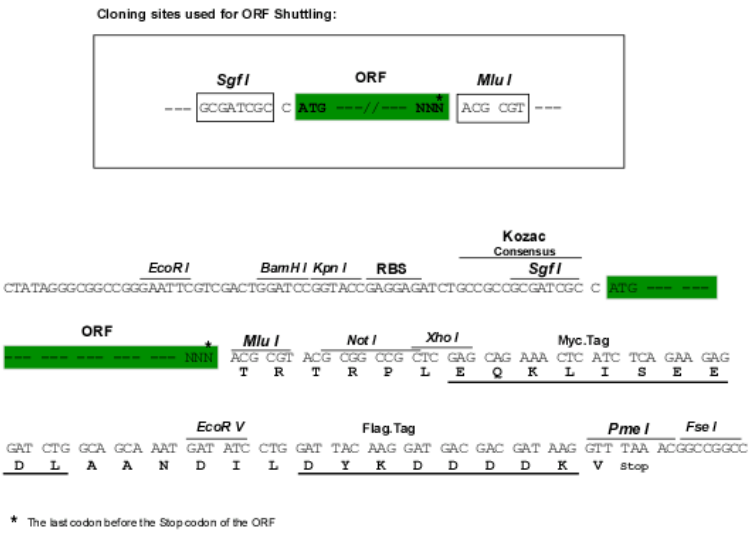
>MR215696 representing NM_173019
Red=Cloning site Green=Tags(s)

MASPRELTQNPLKKIWMPYSNGRPALHASQRGVCMTNCPTLIVMVGLPARGKTYISKKLTRYLNWIGVPT
REFNVGQYRRDIVKTYKSFEFFLPDNEEGLKIRKQCALAALSDVRKFLSEEGGHVAVFDATNTTRERRAM
IFNFGEQNGYKTFFVESICVDPEVVAANIVQVKLGSPDYVNRDSDEATEDFMRRIECYENSYESLDEDLD
RDLSYIKIMDVGQSYVVNRVADHIQSRIVYYLMNIHVTPRSIYLCRHGESELNLKGRIGGDPGLSPRGRE
FSKHLAQFISDQNIKDLKVWTSQMKRTIQTAEALSVPYEQWKVLNEIDAGVCEEMTYEEIQDHYPLEFAL
RDQDKYRYRYPKGESYEDLVQRLEPVIMELERQENVLVICHQAVMRCLLAYFLDKAAEELPYLKCPLHTV
LKLTPVAYGCKVESIFLNVAAVNTHRDRPQNVDISRPSEEALVTVPAHQ

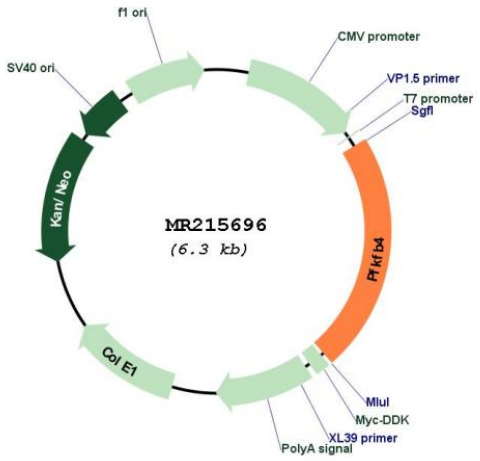
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173019

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_173019.5, NP_766607.3
RefSeq Size:	3377 bp
RefSeq ORF:	1410 bp
Locus ID:	270198
UniProt ID:	Q6DTY7
Cytogenetics:	9 F2
MW:	54.5 kDa
Gene Summary:	Synthesis and degradation of fructose 2,6-bisphosphate.[UniProtKB/Swiss-Prot Function]