OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR208305

Pfkfb2 (NM_008825) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pfkfb2 (NM_008825) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkfb2
Synonyms:	4930568D07Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR208305 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGAGAATAGTACATTTTCCCCAGAAGACTGCAACAGCAGCTATAAACCCCACGCCTCAAATCTGC
GAAGGGCAGGGAAGACATGCTCATGGGCTTCCTATATGACCAACTCCCCAACACTCATTGTTATGATTGG
CTTGCCAGCCCGGGGTAAAACTTATGTGTCTAAGAAACTAACACGCTACCTCAACTGGATTGGAGTACCC
ACCAAAGTGTTTAATCTTGGGGTATATCGACGTGAAGCAGTCAAGTCCTATCAGTCTTATGATTTCTTTC
GACATGACAATGAAGAGGCTATGAAGATCCGCAAACAGTGTGCTCTGGTGGCACTGGAAGATGTTAAAGC
CTATTTTACTGAAGAGAGTGGGCAGATTGCGGTGTTTGATGCCACCAATACCACTCGGGAGAGGAGGGAC
ATGATTTTGAACTTTGCCAAGCAGAATGCCTTCAAGGTATTTTTTGTAGAATCTGTCTGTGATGATCCTG
ATGTCATTGCTGCCAATATTCTGGAGGTAAAAGTTTCGAGCCCTGACTACCCCGAAAGGAATAGGGAGAA
TGTGATGGAGGACTTCCTGAAGAGAATTGAGTGCTACAAGGTCACTTACCAGCCCCTTGACCCAGACAAC
TATGATAAGGATCTTTCTTTCATAAAGGTGATAAATGTAGGCCAGAGATTCCTGGTCAACAGAGTTCAGG
ACTACATCCAGAGTAAGATTGTCTACTACCTGATGAATATCCACGTCCATCCTCGCACCATCTACCTTTG
CCGGCACGGCGAGAGCGAGTTCAACCTTTTGGGGAAGATTGGGGGTGACTCTGGCCTCTCCGTGCGAGGA
AAGCAGTTTGCTCATGCTCTGAAGAAGTTTCTGGAGGAACAGGAGATCCAGGACCTTAAAGTGTGGACGA
GCCAGTTGAAGAGGACAATTCAGACTGCTGAGTCTCTTGGGGTGACCTATGAGCAGTGGAAGATCCTCAA
TGAGATTGATGCTGGCGTGTGTGAGGAGATGACATATTCAGAGATTGAGCAACGGTACCCAGAGGAATTT
GCACTCCGAGATCAAGAGAAGTATCTGTACCGATACCCTGGTGGGGAGTCCTACCAGGACCTGGTGCAGC
GGCTGGAGCCTGTCATCATGGAGCTAGAGCGTCAAGGCAACATCCTCGTTATCTCTCACCAGGCTGTCAT
GCGCTGCCTCCTGGCCTACTTCTTGGATAAAGGCGCAGATGAGTTACCATACTTGAGGTGCCCCCTGCAC
ATCATCTTCAAACTTACTCCTGTGGCCTATGGTTGCAAAGTGGAAACAATTACTCTGAATGTGGATGCTG
TAGACACACATCGTGACAAGCCAACTCACAACTTCCCCAAGAGCCAAACCCCTGTAAGGATGAGAAGGAA
CAGCTTTACGCCTCTGTCCAGTTCGAACACAATAAGGCGTCCAAGAAATTACAGTGTTGGGAGCCGACCC
CTCAAGCCCCTCAGCCCTCTCCGTGCTCTGGACATGCAAGAAGGGGCGGACCAGCCGAAGACCCAAGTCA
GCATTCCGGTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

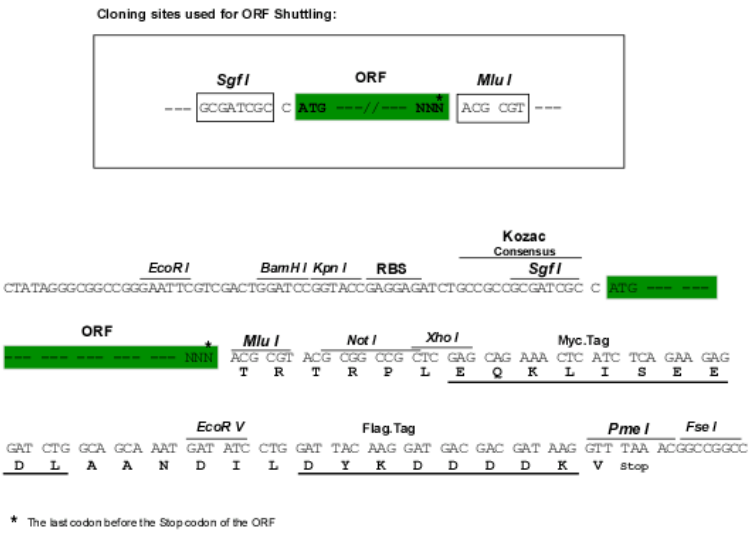
>MR208305 protein sequence
Red=Cloning site Green=Tags(s)

MSENSTFSPEDCNSSYKPHASNLRRAGKTCSWASYMTNSPTLIVMIGLPARGKTYVSKKLTRYLNWIGVP
TKVFNLGVYRREAVKSYQSYDFFRHDNEEAMKIRKQCALVALEDVKAYFTEESGQIAVFDATNTTRERRD
MILNFAKQNAFKVFFVESVCDDPDVIAANILEVKVSSPDYPERNRENVMEDFLKRIECYKVTYQPLDPDN
YDKDLSFIKVINVGQRFLVNRVQDYIQSKIVYYLMNIHVHPRTIYLCRHGESEFNLLGKIGGDSGLSVRG
KQFAHALKKFLEEQEIQDLKVWTSQLKRTIQTAESLGVTYEQWKILNEIDAGVCEEMTYSEIEQRYPEEF
ALRDQEKYLYRYPGGESYQDLVQRLEPVIMELERQGNILVISHQAVMRCLLAYFLDKGADELPYLRCPLH
IIFKLTPVAYGCKVETITLNVDAVDTHRDKPTHNFPKSQTPVRMRRNSFTPLSSSNTIRRPRNYSVGSRP
LKPLSPLRALDMQEGADQPKTQVSIPVV

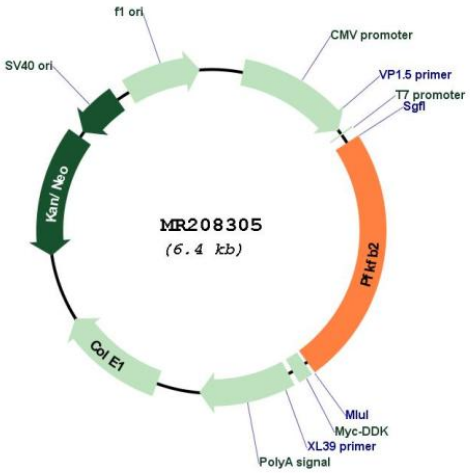
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_008825
ORF Size:	1557 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_008825.2, NM_008825.3, NM_008825.4, NP_032851.2
RefSeq Size:	7308 bp
RefSeq ORF:	1557 bp
Locus ID:	18640
UniProt ID:	P70265
Cytogenetics:	1 E4
MW:	59.8 kDa
Gene Summary:	Synthesis and degradation of fructose 2,6-bisphosphate.[UniProtKB/Swiss-Prot Function]