

Product datasheet for **RG219676**

PFKFB2 (NM_001018053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFKFB2 (NM_001018053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PFKFB2
Synonyms:	PFK-2/FBPase-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219676 representing NM_001018053
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGGGGCATCTTCCTCAGAACAACAACAACAGCTATGAAACAAAACCCAAATCTTCGAATGT
 CAGAGAAGAAATGTTTCATGGGCCTCTACATGACCAACTCCCGACTCTGATCGTTATGATTGGTTTGCC
 AGCCCGGGTAAAACCTACGTGTCCAAGAACTAACACGCTACCTCAACTGGATTGGAGTCCCCACCAAA
 GTGTTTAACTTTGGGGTGTATCGGCGTGAAGCAGTCAAGTCTATAAGTCTACGACTTCTTTCGGCATG
 ACAATGAGGAGGCCATGAAGATCCGCAACAGTGTGCTCTGGTGGCGCTGGAAGATGTTAAGGCGTATCT
 CACTGAGGAGAATGGTCAGATTGCGGTGTTTGATGCCACCAATACAACCCGGGAGAGGAGGGACATGATT
 TTGAACTTTGCTGAACAGAATTCCTTCAAGGTATCTTTGTGGAATCCGTCTGTGATGATCCTGATGTCA
 TTGCTGCCAATATCTGGAGTTAAGGTATCAAGCCCTGACTATCCTGAAAGGAACAGAGAACGTGAT
 GGAGGACTTCTGAAGAGAATTGAATGCTACAAGTTACCTACCGACCTTTGACCCAGACAACATATGAC
 AAGGATCTTTCTTTCATCAAGGTGATAAACGTGGGCCAGCGATTTTTAGTCAACAGAGTCCAGGACTACA
 TCCAGAGCAAGATAGTCTACTACCTCATGAATATCCACGTCCAGCCTCGCACCATTTACCTTTGCCGGCA
 TGGAGAAAGCGAGTTCAATCTCTTGGGGAAGATTGGGGTGACTCTGGCCTCTCGGTGCGGGGAAAGCAG
 TTTGCCAAGCTTAAGGAAATTTCTGGAGGAACAGGAAATAACAGACCTCAAAGTGTGGACAAGCCAGT
 TGAAGAGGACCATACAGACTGCTGAATCTCTCGGGTGCCTATGAGCAGTGAAGATTCTGAATGAGAT
 TGATGCTGGTGTGTGTAAGAGATGACCTATGCAGAGATTGAGAAACGGTACCCAGAAGAGTTTGCACCT
 CGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGAGTCATACCAGGACCTGGTGCAGCGGCTGG
 AGCCTGTATCATGGAGCTGGAACGTCAGGGCAATGTCCTCGTCATCTCCACCAGGCTGTCATCGCTG
 CCTCCTGGCCTACTTCTTGATAAGGGCGCAGATGAGCTACCATACTTGAGATGCCCTCTCCATACCATC
 TTCAAACCTACTCTGTGCCTATGGGTGCAAAGTGAAACAATTAACCTAACGTGGAGGCTGTGAACA
 CGCACCGTGACAAGCCAACCTGCAGCAGAGACCACACTGGCTGTGCGCAGACGCCCTCCGCAGCGTCCCT
 CATGTTGCCTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219676 representing NM_001018053
 Red=Cloning site Green=Tags(s)

MSGASSSEQNNSYETKTPNLRMSEKKCSWASYMTNSPTLIVMIGLPARGKTYVSKKLTRYLNWIGVPTK
 VFNLGVYRREAVKSYKSYDFFRHDNEEAMKIRKQCALVALEDVKAYL TEENGQIAVFDATNTTRRRDMI
 LNFAEQNSFKVFFVESVCDPDVIAANILEVKVSSPDYPERNRENMEDFLKRIECYKVTYRPLDPDNYD
 KDL SF IKVINVGQRFLVNRVQDYIQSKI VYYLMNIHVQPRTIYL CRHGESEFNLLGKIGGDSGLSVRGKQ
 FAQALRFLEEQEITDLK V WTSQLKRTIQTAESLGVPEQWKILNEIDAGVCEEMTYAEIEKRYPEEFAL
 RDQEKYLRYRPGGESYQDLVQRLEPVIMELERQGNLVI SHQAVMRCLLAYFLDKGADEL PYLRCP LH TI
 FK LTPVAYGCKVETIKLNVEAVNTHRDKPTAAETTLAVRRRPSAASLMLPC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001018053

ORF Size: 1413 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_001018053.2](#)

RefSeq Size: 3529 bp

RefSeq ORF: 1416 bp

Locus ID: 5208

UniProt ID: [O60825](#)

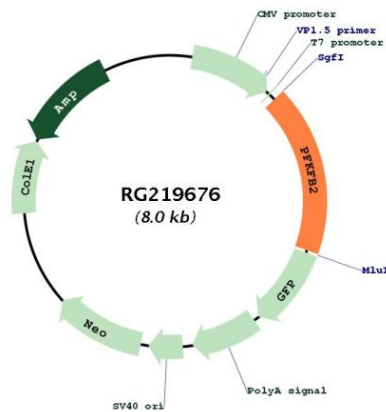
Cytogenetics: 1q32.1

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism

Gene Summary: The protein encoded by this gene is involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate, and a fructose-2,6-biphosphatase activity that catalyzes the degradation of fructose-2,6-bisphosphate. This protein regulates fructose-2,6-bisphosphate levels in the heart, while a related enzyme encoded by a different gene regulates fructose-2,6-bisphosphate levels in the liver and muscle. This enzyme functions as a homodimer. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219676