

Product datasheet for **RG211329**

PFKFB2 (NM_006212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFKFB2 (NM_006212) 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)



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ORF Nucleotide Sequence:

>RG211329 representing NM_006212
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGGGGCATCTTCCTCAGAACAACAACAACAGCTATGAAACAAAACCCAAATCTTCGAATGT
 CAGAGAAGAAATGTTTCATGGGCCTCTACATGACCAACTCCCGACTCTGATCGTTATGATTGGTTTGCC
 AGCCCGGGTAAAACCTACGTGTCCAAGAACTAACACGCTACCTCAACTGGATTGGAGTCCCACCAAAA
 GTGTTTAACTTTGGGGTGTATCGGCGTGAAGCAGTCAAGTCTATAAGTCTACGACTTCTTTCCGCATG
 ACAATGAGGAGGCCATGAAGATCCGCAACAGTGTGCTCTGGTGGCGCTGGAAGATGTTAAGGCATCT
 CACTGAGGAGAATGGTCAGATTGCGGTGTTTGATGCCACCAATACAACCCGGGAGAGGAGGGACATGATT
 TTGAACTTTGCTGAACAGAATTCCTTCAAGGTATCTTTGTGGAATCCGTCTGTGATGATCTGATGTCA
 TTGCTGCCAATATCTGGAGTTAAGGTATCAAGCCCTGACTATCCTGAAAGGAATAGAGAGAACGTGAT
 GGAGGACTTCTGAAGAGAATTGAATGCTACAAGTTACCTACCGACCTTTGACCCAGACAACATGAC
 AAGGATCTTTCTTTCATCAAGGTGATAAACGTGGGCCAGCGATTTTTAGTCAACAGAGTCCAGGACTACA
 TCCAGAGCAAGATAGTCTACTACCTCATGAATATCCACGTCCAGCCTCGCACCATTTACCTTTGCCGGCA
 TGGAGAAAGCGAGTTCAATCTCTTGGGGAAGATTGGGGTGACTCTGGCCTCTCGGTGCGGGGAAAGCAG
 TTTGCCAAGCTTAAGGAAATTTCTGGAGGAACAGGAAATAACAGACCTCAAAGTGTGGACAAGCCAGT
 TGAAGAGGACCATACAGACTGCTGAATCTCTCGGGTGCCTATGAGCAGTGAAGATTCTGAATGAGAT
 TGATGCTGGTGTGTGTAAGAGATGACCTATGCAGAGATTGAGAAACGGTACCCAGAAGAGTTTGCACCT
 CGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGAGTCATACCAGGACCTGGTGCAGCGGCTGG
 AGCCTGTATCATGGAGCTGGAACGTGAGGCAATGTCCTCGTCATCTCCACCAGGCTGTCATACCGCTG
 CCTCCTGGCCTACTTCTTGGATAAGGGCGCAGATGAGCTACCATACTTGAGATGCCCTCTCCATACCATC
 TTCAAACCTACTCCTGTGGCCTATGGGTGCAAAGTGGAACAATTAACCTAACGTGGAGGCTGTGAACA
 CGCACCGTGACAAGCCAATAACAACCTCCCAAGAACCAACCCCTGTAAGGATGAGAAGGAACAGCTT
 TACGCCTCTGTCCAGTTCAATACAATAAGGCGTCCAAGAAATTACAGTGTGGGAGCCGGCCCTCAAG
 CCCCTCAGCCCTCTCCGTGCCAGGACATGCAAGAAGGGGCCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211329 representing NM_006212
 Red=Cloning site Green=Tags(s)

MSGASSSEQNNSYETKTPNLRMSEKKCSWASYMTNSPTLIVMIGLPARGKTYVSKKLTRYLNWIGVPTK
 VFNLGVYRREAVKSYKSYDFFRHDNEEAMKIRKQCALVALEDVKAYL TEENGQIAVFDATNTTTRRRDMI
 LNFAEQNSFKVFFVESVCDPDVIAANILEVKVSSPDYPERNRENMEDFLKRIECYKVTYRPLDPDNYD
 KDLFSFIKVINVGQRFLVNRVQDYIQSKIYYLMNIHVQPRTIYLCRHGESEFNLLGKIGGDSGLSVRGKQ
 FAQALRKFLLEEQEITDLKVWTSQLKRTIQTAESLGVPEQWKILNEIDAGVCEEMTYAEIEKRYPEEFAL
 RDQEKYLRYPPGESYQDLVQRLEPVIEMELERQGNVLVISHQAVMRCLLAYFLDKGADELPYLRCPLHTI
 FKLTPVAYGCKVETIKLNVEAVNTHRDKPTNFPKNQTPVRRRNSFTPLSSSNTIRRPRNYSVGSRLPK
 PLSPLRAQDMQEGAD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_006212

ORF Size: 1515 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_006212.2](#), [NP_006203.2](#)

RefSeq Size: 7073 bp

RefSeq ORF: 1518 bp

Locus ID: 5208

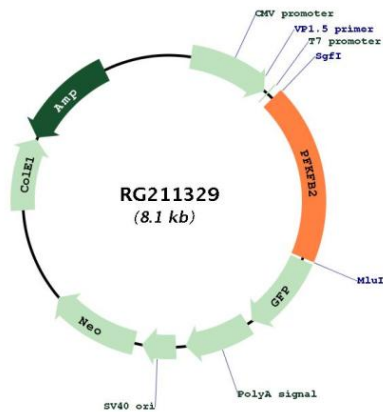
UniProt ID: [O60825](#)

Cytogenetics: 1q32.1

Domains: PGAM, 6PF2K
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 RG211329