

Product datasheet for **SC333119**

PFKFB1 (NM_001271805) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PFKFB1 (NM_001271805) Human Untagged Clone
Tag: Tag Free
Symbol: PFKFB1
Synonyms: F6PK; HL2K; PFRX
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC333119 representing NM_001271805.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAAGAAAAACCTCTAGAATAAAAGTGTTTAATTTAGGCCAGTATCGACGAGAGGCAGTGAGCTAC
AAGAACTATGAATTTCTTCCAGACAACATGGAAGCCCTGCAAATCAGGAAGCAGTGCGCCCTGGCA
GCCCTGAAGGATGTTCACTACTCTCAGCCATGAGGAAGGTCATGTTGCGGTTTTTGTATGCCACCAAC
ACTACCAGAGAACGACGGTCACTGATCCTGCAGTTTGCAAAGAACATGGTTACAAGGTGTTTTTCATT
GAGTCCATTTGTAATGACCCTGGCATAATTGCAGAAAACATCAGGCAAGTAAAACCTGGCAGCCCTGAT
TATATAGACTGTGACCGGAAAAGTCTGGAAGACTTTCTAAAGAGAATTGAGTGCTATGAGGTCAAC
TACCAACCCTTGATGAGGAACTGGACAGCCACCTGTCCTACATCAAGATCTTCGACGTGGGCACACGC
TACATGGTGAACCGAGTGCAGGATCACATCCAGAGCCGCACAGTCTACTACCTCATGAATATCCATGTC
ACACCTCGCTCCATCTACCTTTGCCGACATGGCGAGAGTGAACCAACATCAGAGGCCGCATCGGAGGT
GACTCTGGCCTCTCAGTTCGCGGCAAGCAGTATGCCTATGCCCTGGCCAACTTCATTAGTCCCAGGGC
ATCAGCTCCCTGAAGGTGTGGACCAGTACATGAAGAGGACCATCCAGACAGCTGAGGCCCTGGGTGTC
CCCTATGAGCAGTGAAGGCCCTGAATGAGATTGATGCGGGTGTCTGTGAGGAGATGACCTATGAAGAA
ATCCAGGAACATTACCTGAAGAATTTGCACTGCGAGACCAAGATAAATATCGCTACCGCTATCCCAAG
GGAGAGTCCATGAGGATCTGGTTCAGCGTCTGGAGCCAGTGATAATGGAGCTAGAACGACAGGAGAA
GTACTGGTGATCTGCCACCAGGCTGTCATGCGGTGCCTCCTGGCCTATTTCTGGATAAAAAGTTCAGAT
GAGCTTCCATATCTCAAGTGCCTCTGCACACAGTGCTCAAACCTCACTCCTGTGGCTTATGGCTGCAAA
GTGGAATCCATCTACCTGAATGTGGAGGCCGTGAACACACACCGGGAGAAGCCTGAGAATGTGGACATC
ACCCGGGAACCTGAGGAAGCCCTGGATACTGTCCAGCCCACTACTGA
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Restriction Sites: SgfI-MluI
ACCN: NM_001271805
Insert Size: 1221 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<ol style="list-style-type: none">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_001271805.1
RefSeq Size:	1591 bp
RefSeq ORF:	1221 bp
Locus ID:	5207
UniProt ID:	P16118
Cytogenetics:	Xp11.21
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism
MW:	47.4 kDa
Gene Summary:	<p>This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012]</p> <p>Transcript Variant: This variant (3) lacks two 5' exons and contains an alternate 5' exon, compared to variant 1. The resulting isoform (3) has a distinct N-terminus and is shorter than isoform 1.</p>