

## Product datasheet for **SC333118**

### PFKFB1 (NM\_001271804) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PFKFB1 (NM\_001271804) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PFKFB1  
**Synonyms:** F6PK; HL2K; PFRX  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333118 representing NM\_001271804.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCTCCAGAGATGGGAGAGCTCACCCAAACCAGGTTGCAGAAGATCTGGATTCCACACAGCAGCGGC
AGCAGCAGGCTGCAACGGAGAAGGGGCTCATCCATACCCAGTTTACCAATCCCCCACAATGGTGATC
ATGGTGGGTTTACCAGCTCGAGGCAAGACCTATATCTCCACAAAGCTCACACGATATCTCAACTGGATA
GGAACACCAACTAAAGACAACATGGAAGCCCTGCAAATCAGGAAGCAGTGCGCCCTGGCAGCCCTGAAG
GATGTTCACTATCTCAGCCATGAGGAAGGTCATGTTGCGGTTTTTGTGCCACCAACTACCAGA
GAACGACGGTCACTGATCCTGCAGTTTGCAAAAGAACATGGTTACAAGGTGTTTTTCATTGAGTCCATT
TGTAATGACCCTGGCATAATTGCAGAAAACATCAGGCAAGTGAACTTGGCAGCCCTGATTATATAGAC
TGTGACCGGAAAAGGTTCTGGAAGACTTTCTAAAGAGAATTGAGTGCTATGAGGTCAACTACCAACCC
TTGGATGAGGAACTGGACAGCCACCTGTCTACATCAAGATCTTCGACGTGGGCACACGCTACATGGTG
AACCGAGTGCAGGATCACATCCAGAGCCGCACAGTCTACTACCTCATGAATATCCATGTCACACCTCGC
TCCATCTACCTTTGCCGACATGGCGAGAGTGAACATCAACATCAGAGGCCGCATCGGAGGTGACTCTGGC
CTCTCAGTTCGCGGCAAGCAGTATGCCTATGCCCTGGCCAACCTCATTGAGTCCCAGGGCATCAGCTCC
CTGAAGGTGTGGACCAGTACATGAAGAGGACCATCCAGACAGCTGAGGCCCTGGGTGTCCTCATGAG
CAGTGGAAAGCCCTGAATGAGATTGATGCGGGTGTCTGTGAGGAGATGACCTATGAAGAAATCCAGGAA
CATTACCCTGAAGAATTTGCACTGCGAGACCAAGATAAAATATCGCTACCGCTATCCCAAGGGAGAGTCC
TATGAGGATCTGGTTCAGCGTCTGGAGCCAGTGATAATGGAGCTAGAACGACAGGAGAATGTACTGGTG
ATCTGCCACCAGGCTGTCATGCGGTGCCTCCTGGCCTATTTCTGGATAAAAAGTTCAGATGAGCTTCCA
TATCTCAAGTGCCTCTGCACACAGTGCTCAAACCTCACTCCTGTGGCTTATGGCTGCAAAGTGGAAATCC
ATCTACCTGAATGTGGAGGCCGTGAACACACACCCGGGAGAAGCCTGAGAATGTGGACATCACCCGGGAA
CCTGAGGAAGCCCTGGTACTGTCCAGCCACTACTGA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271804  
**Insert Size:** 1350 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271804.1</a>
<b>RefSeq Size:</b>	1690 bp
<b>RefSeq ORF:</b>	1350 bp
<b>Locus ID:</b>	5207
<b>UniProt ID:</b>	<a href="#">P16118</a>
<b>Cytogenetics:</b>	Xp11.21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fructose and mannose metabolism
<b>MW:</b>	52 kDa
<b>Gene Summary:</b>	<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 (2) lacks an in-frame segment in the coding region, compared to variant 1. The resulting isoform (2) is shorter than isoform 1.</p>