

## Product datasheet for **SC310311**

### PFKFB2 (NM\_006212) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PFKFB2 (NM_006212) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFKFB2
Synonyms:	PFK-2/FBPase-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >SC310311 representing NM\_006212.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTCTGGGGCATCTTCCTCAGAACAGAAACAACAGCTATGAAACAAAACCCCAATCTTCGAATG
TCAGAGAAGAAATGTTTCATGGGCTCTACATGACCAACTCCCGACTCTGATCGTTATGATTGGTTTG
CCAGCCCGGGTAAAACCTACGTGTCCAAGAACTAACACGCTACCTCAACTGGATTGGAGTCCCCACC
AAAGTGTTTAATCTTGGGGTGTATCGGCGTGAAGCAGTCAAGTCCTATAAGTCCTACGACTTCTTTCGG
CATGACAAATGAGGAGGCCATGAAGATCCGCAAACAGTGTGCTCTGGTGGCGCTGGAAGATGTTAAGGCG
TATCTCACTGAGGAGAATGGTCAGATTGCGGTGTTTGATGCCACCAATACAACCCGGGAGAGGAGGGAC
ATGATTTTGAACTTTCTGAACAGAATTCCTTCAAGGTATTCTTTGTGGAATCCGCTGTGATGATCCT
GATGTCATTGCTGCCAATATTCTGGAGGTTAAGGTATCAAGCCCTGACTATCCTGAAAGGAACAGAGAG
AACGTGATGGAGGACTTCTGAAGAGAATTGAATGCTACAAAGTTACCTACCGACCTCTTGACCCAGAC
AACTATGACAAGGATCTTTCTTTCATCAAGGTGATAAACGTGGGCCAGCGATTTTATGTCACAGAGTC
CAGGACTACATCCAGAGCAAGATAGTCTACTACCTCATGAATATCCACGTCCAGCCTCGCACCATTAC
CTTTGCCGGCATGGAGAAAGCGAGTTCAATCTCTTGGGGAAGATTGGGGGTGACTCTGGCCTCTCGGTG
CGGGGAAAGCAGTTTGCCCAAGCTTAAGGAAATTTCTGGAGGAACAGGAAATAACAGACCTCAAAGTG
TGGACAAGCCAGTTGAAGAGGACCATACAGACTGCTGAATCTCTCGGGTGCCCTATGAGCAGTGGAAAG
ATTCTGAATGAGATTGATGCTGGTGTGTGTAAGAGATGACCTATGCAGAGATTGAGAAACGGTACCCA
GAAGAGTTTGCATTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGAC
CTGGTGCAGCGGCTGGAGCCTGTATCATGGAGCTGGAACGTGAGGGCAATGTCCTCGTCATCTCCAC
CAGGCTGTATGCGCTGCCTCCTGGCCTACTTCTGGATAAGGGCGCAGATGAGCTACCATACTTGAGA
TGCCCTCTCCATACCATCTTCAAACCTACTCTGTGGCCTATGGGTGCAAAGTGGAACAATTAACCTT
AACGTGGAGGCTGTGAACACGCACCGTGACAAGCCAACCTAACAACTTCCCAAGAACCAACCCCTGTA
AGGATGAGAAGGAACAGCTTTACGCCTCTGTCCAGTTCGAATACAATAAGGCGTCCAAGAAATTACAGT
GTTGGGAGCCGGCCCTCAAGCCCTCAGCCCTCTCCGTGCCAGGACATGCAAGAAGGGGCCGACTAG

```

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_006212

**Insert Size:** 1518 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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](#)

**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

**MW:** 58.5 kDa

**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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).