

Product datasheet for **SC336656**

PFKFB3 (NM_001282630) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFKFB3 (NM_001282630) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFKFB3
Synonyms:	iPFK-2; IPFK2; PFK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336656 representing NM_001282630.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGGGGAGGGTGGCCAGAAGGAAGGTGACAGCCAGCAAGCAGGGGCTCTGCCACTCCTCTGTGAGCTG
GACACGTTTAGTCCCAAGGCCACTGTCTTCGGTGTCTCCATTAATCCAGCCTGTGGGCCAAAGCTGACC
AACTCCCCACCCTCATCGTCATGGTGGGCTCCCGCCCGGGCAAGACCTACATCTCCAAGAAGCTG
ACTCGCTACCTCAACTGGATTGGCGTCCCCACAAAAGTGTCAACGTGCGGGAGTATCGCCGGGAGGCT
GTGAAGCAGTACAGCTCCTACAATTCTTCGCCCCGACAATGAGGAAGCCATGAAAGTCCGGAAGCAA
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GCGTTTTTCATCGAGTCGGTGTGCGACGACCCTACAGTTGTGGCCTCCAATATCATGGAAGTTAAAATC
TCCAGCCCGGATTACAAAGACTGCAACTCGGCAGAAGCCATGGACGACTTCATGAAGAGGATCAGTTGC
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GACGTGGGCCGGAGGTTCTTGGTGAACCGGGTGCAGGACCACATCCAGAGCCGCATCGTGTACTACCTG
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GAGGATGCAAAGAAGGGACCTAACCCGCTCATGAGACGCAATAGTGTACCCCGCTAGCCAGCCCCGAA
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TGCCTGCCCCGGAGGTGCCACGCAGTGCCTGGACAAAACATGAAAGGCTCCCGGAGCAGCGTGC
TCCTCCAGGAAACACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001282630

Insert Size: 1605 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).

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_001282630.2](#)

RefSeq Size: 4339 bp

RefSeq ORF: 1605 bp

Locus ID: 5209

UniProt ID: [Q16875](#)

Cytogenetics: 10p15.1

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism

MW: 60.6 kDa

Gene Summary: The protein encoded by this gene belongs to a family of bifunctional proteins that are 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 (F2,6BP), and a fructose-2,6-bisphosphatase activity that catalyzes the degradation of F2,6BP. This protein is required for cell cycle progression and prevention of apoptosis. It functions as a regulator of cyclin-dependent kinase 1, linking glucose metabolism to cell proliferation and survival in tumor cells. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2016]

Transcript Variant: This variant (3) uses an alternate 5' terminal exon compared to variant 1. The resulting isoform (3) has a longer and distinct N-terminus compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.