

## Product datasheet for SC125729

### PFKL (NM\_001002021) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PFKL (NM_001002021) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFKL
Synonyms:	ATP-PFK; PFK-B; PFK-L
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001002021 edited  
 CGTGTTCGGCCCGCCATGGCCGCGGTGGACCTGGAGAAGCTGCGGGCGTCGGGCGCG  
 GGCAAGGCCATCGGCGTCTGACCAGCGGCGGACGCGCAAGGTCCCCTGACAAGCCCA  
 CCAGGCCCCCTGCTGAGATGGCTGTGACCCTGGGCTGACCCGCCAGTGGCACATTGACT  
 CCGCCTGGAGCTGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTG  
 CTCCTGCCCTCTCCTTGCCCTGCCTCAGCTGCTGCCTGCCAGAGGCGTGGCACCTCACCT  
 CACACCTGCTCCCTGCTGCTGAGCCCCACGCCAAGCTGGAGAGCGGATGAGAAGCATGTG  
 TAACCAGGGTAGAGGTCGAGAGTCTCTCGTGGGGTCTCCATGTTCAAGGGAGCTGCCG  
 AGGCTTGAGCAGGAGCCCCAGCAGGAACTGGCTTTGCCAAGGCCCCGCTGGGACAGA  
 CTGTTTCTTTCACTGCAGTCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGAC  
 CTCAGAGCCTGGTGGCACCAGCATCATGTCCAGGCTGGGGGCGATGAACGCTGCTGCCG  
 GGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAAGTCTTCCTCATCTACGAGGGCTA  
 TGAGGGCCTCGTGAGGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCGTCTCCAA  
 CATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAAGGCCTTACCACCAG  
 GGAGGGGCGCCGGCAGCGGCTACAACCTGGTCCAGCAGGCATCACC AACCTGTGCGT  
 CATCGGCGGGGATGGCAGCCTTACAGGTGCCAACATCTCCGAGCGAGTGGGCGAGCCT  
 GCTGGAGGAGCTGGTGGCGGAAGTAAGATCTCAGAGACTACAGCCCGGACCTACTCGCA  
 CCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTCGGCGCAGGACATGAC  
 CATCGGACGGACTCGGCCCTCCACCGCATCATGGAGGTATCGATGCCATCACCACCAC  
 TGCCAGAGCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCGCACTGCGGGTACCT  
 GGCCTGTTATCTGCACTGGCCTCAGGGCCGACTGGCTGTTATCCCCGAGGCTCCACC  
 CGAGGACGGCTGGGAGA ACTTCATGTGTGAGAGGCTGGTGGAGACTCGGAGCCGTGGGT  
 CCGACTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGCCCATCTC  
 GTCCAGCTACGTGAAGGACCTGGTGGTTCAGAGGCTGGGCTTCGACACCCGTGTAAGTGT  
 GCTGGGCCACGTGCAGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAA  
 GATGGGCATGGAGGCGGTGATGGCGCTGCTGGAAGCCACGCCCTGACACGCCGGCCTCGT  
 GGTACCCTCTCGGGGAACCACTCAGTGGCGCTGCCCTCATGGAGTGGCTGCGATGAC



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CAAGGAAGTGCAGAAAGCCATGGATGACAAGAGGTTTGACGAGGCCACCCAGCTCCGTGG  
 TGGGAGCTTCGAGAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCCAA  
 GGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGCCCCGGCGCTGGCATGAA  
 TGCGGCCGTGCGCTCGGCGGTGCGGACCGGCATCTCCATGGACACACAGTATACGTGGT  
 GCACGATGGCTTCGAAGGCCTAGCCAAGGTCAGGTGCAAGAAGTAGGCTGGCACGACGT  
 GGCCGGTGGTTGGGGCGTGGTGGCTCCATGCTGGGACCAAGAGGACCCGCCCCAAGG  
 CCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTACGCCCTGCTGGTGGT  
 CGGTGGGTTTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGA  
 GGAGCTCTGCATCGTCATGTGTGCATCCAGCCACCATCAGCAACAACGTCCCTGGCAC  
 CGACTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCGCCATGGAGAGCTGTGACCCGAT  
 CAAACAGTCTGCCTCGGGACCAAGCGCCGTGTGTTTCATCGTGGAGACCATGGGGGTTA  
 CTGTGGCTACCTGGCCACCGTACTGGCATTGCTGTGGGGGCCGACGCCGCTACGTCTT  
 CGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGT  
 GAAGACAGACATTAGAGGGGCTGGTGTGCGGAACGAGAAGTGCCATGACTACTACAC  
 CACGGAGTTCCTGTACAACCTGTACTCATCAGAGGGCAAGGGCGTCTTCGACTGCAGGAC  
 CAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGAACATGG  
 GACCAAGCTGGGGTGAAGGCCATGCTGTGGTTGTCGGAGAAGCTGCGCGAGGTTTACCG  
 CAAGGGACGGGTGTTGCGCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAA  
 GGCGGTGGCCTTCAGCCCCGTCAGTACTGAGCTCAAGAAAGACACTGATTTGAGCACCGCAT  
 GCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGCTGAAGATGCTGGCACAATACCG  
 CATCAGTATGGCCGCTACGTGTGAGGGAGCTGGAGCACGTGACCCGCCGACCCCTGAG  
 CATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCCAGCCCCACCCATGC  
 CAGCGCAGCGCCAGGGCTCAGATGGGGCTGGGCTGTTGTGTCTGGAGCCTGCAGCGAGG  
 TGGGGGCTGCGTCCCTGCTCAGCCCATCCCTGCCTCTATCCCTGGCCACCTGCCAGGCC  
 TCCTCCGGCTGGTGTCTTGAGACCAGCCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGC  
 CCTGGGGCATCCACCTTCTGCCAGGGGACGTGGCGCTGTCGGTGTGGAGGCTGCTG  
 CCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCATGCTGGGCTCACTACATG  
 GGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCTAGGTTGTGTTGAGAGGG  
 GATGCCCTGGCCCTGCCTCACTGTGACCTGCTCCTGCCACGTGCAGCACCTGTACCT  
 TTTCTAGAAAATAAATCACCTGACTGTGGGTGCATCGGTCTCCGAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001002021 unedited  
 AGGTGGATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGTGTTC  
 GGCCGCCGCCATGGCCGCGGTGGACCTGGAGAAGCTGCGGGCGTGGGGCGGGCAAGGC  
 CATCGGCGTCTGACCAGCGCGCGCAGCGCAAGGTCCCCTGACAAGCCCACCAGGCC  
 CCTGCTGAGATGGCTGTGACCTGGGCTGACCCGCCAGTGGCACATTGACTCCGCTGG  
 AGCTGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTGCTCCTGCC  
 CTCTCCTTGCCCTGCCTCAGCTGCTGCCTGCCAGAGGCGTGGCACCTCACCTCACACCTG  
 CTCCTGCTGCTGAGCCCCACGCCAAGCTGGAGAGCGGATGAGAAGCATGTGTAACCAGG  
 GTAGAGGTCGAGAGTCTCTCGTGGGGTCTCCATGTTCAAGGGAGCTGCCGAGGCTTGA  
 GCAGGAGCCCCAGCAGGAACTGGCTTTGCCAAGGCCCCGCTGGGACAGACTGTTTCT  
 TTCCTGACGTCCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGC  
 CTGGTGGCACCAGCATCATGTCCAGGCTGGGGGCATGAACGCTGCTGTCCGGGCTGTGA  
 CGCGCATGGGCATTTATGTGGGTGCCAAAGTCTTCCTCATCTACGAGGGCTATGAGGGCC  
 TCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCGTCTCCAACATCATCC  
 AGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAGGCCCTTACCACCCAGGAGGGCGC  
 CGGGCACGGCCTACACCTGGTGCAGCACGCATCACACCTGTGCGTCATCGGGGGATGGC  
 AGCTACAGTGCCACATCT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001002021

<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>	<u><a href="#">NM_001002021.1</a></u> , <u><a href="#">NP_001002021.1</a></u>
<b>RefSeq Size:</b>	3402 bp
<b>RefSeq ORF:</b>	2484 bp
<b>Locus ID:</b>	5211
<b>UniProt ID:</b>	<u><a href="#">P17858</a></u>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway
<b>Gene Summary:</b>	<p>This gene encodes the liver (L) subunit of an enzyme that catalyzes the conversion of D-fructose 6-phosphate to D-fructose 1,6-bisphosphate, which is a key step in glucose metabolism (glycolysis). This enzyme is a tetramer that may be composed of different subunits encoded by distinct genes in different tissues. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter isoform (a).</p>