

## Product datasheet for **SC118507**

### PFKP (NM\_002627) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PFKP (NM_002627) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFKP
Synonyms:	ATP-PFK; PFK-C; PFK-P; PFKF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118507 sequence for NM\_002627 edited (data generated by NextGen Sequencing)

```
ATGGACGCGGACGACTCCCGGGCCCCAAGGGCTCCTTGC GGAAGTTCCTGGAGCACCTC
TCCGGGGCCGCAAGGCCATCGGCGTGTGACCAGCGCGGGGATGCTCAAGGTATGAAC
GCTGCCGTCCGTGCCGTGGTGC GCATGGGTATCTACGTGGGGCCAAGGTGACTTCATC
TACGAGGGCTACCAGGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAG
AGTGTCTCCAGCATCTGCAAGTGGGCGGGACGATCATTGGCAGTGC GCGGTGCCAGGCC
TTCCGCACGCGGGAAGGCCGCTGAAGGCTGCTTGCAACCTGCTGCAGCGCGGCATCACC
AACCTGTGTGTGATCGGCGGGGACGGGAGCCTCACCGGGGCCAACCTCTCCGGAAGGAG
TGGAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAG
AAGTACGCCTACCTCAACGTGGTGGCATGGTGGGCTCCATCGACAATGATTTCTGCGGC
ACCGACATGACCATCGGCACGGACTCCGCCCTGCACAGGATCATCGAGGTCGTGCACGCC
ATCATGACCACGGCCAGAGCCACCAGAGGACCTTCGTTCTGGAGGTGATGGGACGACAC
TGTGGGTACCTGGCCCTGGTGTGATGCCTTGGCCTGCGGTGCGGACTGGGTGTTCTTCCA
GAATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCGT
GCCCGGAAAAAAGGCTGAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAAT
AAACCCATCACCTCTGAGAAAATCAAAGAGCTTGTGTCACGCAGCTGGGCTATGACACA
CGTGTGACCATCCTCGGGCACGTGCAGAGAGGAGGGACCCCTTCGGCATTGACAGGATC
TTGGCCAGCCGCATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACCCCGGACACC
CCAGCTTTCGTCGTGTCACTGAACGGGAACACGCCGTGCGCCTGCCGCTGATGGAGTGC
GTGCAGATGACTCAGGATGTGCAGAAAGGCGATGGACGAGAGGAGATTTCAAGATGCGGTT
CGACTCCGAGGGAGGAGCTTTGCGGGCAACCTGAACACCTACAAGCGACTTGCCATCAAG
CTGCCGGATGATCAGATCCCAAAGACCAATTGCAACGTAGCTGTATCAACGTGGGGGCA
CCCGCGGCTGGGATGAACGCGGCCGTACGCTCAGCTGTGCGCGTGGGCATTGCCGACGGC
CACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAA
ATCGGCTGGACAGATGTGCGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAA
CGCGTTCTCCCGGGGAAGTACTTGAAGAGATCGCCACACAGATGCGCACGCACAGCATC
AACGCGCTGTGATCATCGGTGGATTGAGGCCTACCTGGGACTCCTGGAGCTGTGAGCC
GCCCGGGAGAAGCAGGAGGTTCTGTGTCCCATGGTCATGGTCCCGCTACTGTGTCC
AACATGTGCCGGTTCCGATTTAGCATCGGGGCAGACACCGCCCTGAACACTATCACC
GACACCTGCGACCGCATCAAGCAGTCCGCCAGCGGAACCAAGCGCGCGTGTTCATCATC
GAGACCATGGGGCGCTACTGTGGCTACCTGGCCAACATGGGGGGGCTCGCGGCTGGAGCT
GATGCCGCATACATTTTGAAGAGCCCTTCGACATCAGGGATCTGCAGTCCAACGTGGAG
CACCTGACGGAGAAAAATGAAGACCACCATCCAGAGAGGCCTTGTGCTCAGAAATGAGAGC
TGCAGTAAAACTACACCACCGACTTCATTTACCAGCTGTATTGAGAAAGGGCAAAAGGC
GTGTTTGACTGCAGGAAGAACGTGCTGGGTACATGCAGCAGGGTGGGGCACCCCTCTCCA
TTTGATAGAACTTTGGAACAAAATCTCTGCCAGAGCTATGGAGTGGATCACTGCAAAA
CTCAAGGAGGCCCGGGCAGAGGAAAAAATTTACCACCGATGATTCCATTTGTGTGCTG
GGAATAAGCAAAAAGAACGTTATTTTTCAACCTGTGGCAGAGCTGAAGAAGCAAAACGGAT
TTTGAGCACAGGATTTCCCAAAGAACAGTGGTGGCTCAAGCTACGGCCCTCATGAAAATC
CTGGCCAAGTACAAGCCAGCTATGACGTGTCGGACTCAGGCCAGCTGGAACATGTGCAG
CCCTGGAGTGTCTGA
```

Clone variation with respect to NM\_002627.4  
951 c=>t;1281 a=>g;1794 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002627 unedited  
 GTCAAAATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCCCCATTGCC  
 TGCTGCGCACCCGGACGTGCGGCCTCCCCTCGGCCATGGACGCGGACGACTCC  
 CGGGCCCCAGGGCTCCTTGCGGAAGTTCTGGAGCACCTCTCCGGGGCCGGCAAGGCCA  
 TCGGCGTGCTGACCAGCGCGGGGATGCTCAAGGTATGAACGCTGCCGTCCGTGCCGTGG  
 TGCGCATGGGTATCTACGTGGGGCCAAGGTGTACTTCATCTACGAGGGCTACCAGGGCA  
 TGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCCTGC  
 AAGTGGGCGGGACGATCATTGGCAGTGCGCGGTGCCAGGCCTTCCGCACGCGGAAGGCC  
 GCCTGAAGGCTGCTTGAACCTGCTGCAGCGCGCATACCAACCTGTGTGTGATCGGCG  
 GGGACGGGAGCCTCACCGGGCCAACCTCTTCCGGAAGGAGTGGAGTGGGCTGCTGGAGG  
 AGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTACGCCTACCTCAACG  
 TGGTGGGCATGGTGGCTCCATCGACAATGATTCTGCGGCACCGACATGACCATCGGCA  
 CGGACTCCGCCCTGCACAGGATCATCGAGGTCGTCGACGCCATCATGACCACGGCCAGA  
 GCCACCAGAGGACCTTCGTTCTGGNAGGTGATGGGACGACACTGTGGGTACCTGGCCCTG  
 GTGAGTGCCTTGGCCTGCGGTGCGACTCTGTTTCTTNNCAGAATCTCCACCANAGA  
 ANGNTGGGAGGAGCANNATGTGTGTCAAACTCTCGGAGAACCGTGCCCCGAAAAAAGGC  
 TGATTTTATATTGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002627 unedited  
 CGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGAGTTGTAGGCAATGTTTA  
 ATTCTGCTCATATGCACATCTGAAAGCATGAGACACACTCCACAGACAGCAGCAGTGGG  
 GCTGGTGGGCAGATGGGCACTCGCCGATTAGGTATTAATGTTAATAACGTGCATAAA  
 GTGCTGATAAAATAACTTAAGTGTACAAAAACAGACAGTCCACGGTGGCTGCAGGCACA  
 TGCAGGCGGGACTGGGTGAGACACTCCAGGGCTGCACATGTTCCAGCTGGCCTGAGTCCG  
 ACACGTCATAGCTGGCCTTGTACTTGGCCAGGATTTTCATGAGGGGCCGTAGCTTGAACC  
 ACCACTGTTCTTTGGGAATCCTGTGCTCAAAATCCGTTTGCTTCTCAGCTCTGCCACAG  
 GTTGAAAAATAACGTTTCTTTTGTATTCCCAGCACAAAAATGGAATCATCGGTGGTAA  
 ATTTTTTCTCTGCCCCGGGCTCCTTGAGTTTTGCAGTGATCCACTCCATAGCTCTGG  
 CAGAGATTTTGGTCCAAAGTTTCTATCAAATGGAGAGGGTGCCCCACCCTGCTGCATGT  
 GACCCAGCAGTTCCTTCTGCACTCAAACACGCCTTTGCCCTCTTCTGAATACAGCTGGT  
 AAATGAAGTCGGTGGTGTAGTTTTCACTGCAGCTCTCATTCTGAGCACAAAGGCCTCTCT  
 GGATGGTGGTCTTCTCCTCCTCCGTGCTCCACGTTTGACTGCACATCCCTGATGT  
 CNAAGGCTCTTCCAAATGTATGCGGCATCAGCTCCAGCCGCGAGCCCCCATTGTTGGC  
 CAAGTACCCAGTTACCGCCATGTTCTTATGATGACACCCCGCTTGGTTCCCTTGCC  
 GACTGTTTGTATCCGTCCAGGTGTCGAAATTGTTAGGCCGTGTTGCCCGATGTGAAATC  
 GAACCGGCAAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002627

**Insert Size:**

2900 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).

<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_002627.3</a> , <a href="#">NP_002618.1</a>
<b>RefSeq Size:</b>	2628 bp
<b>RefSeq ORF:</b>	2355 bp
<b>Locus ID:</b>	5214
<b>UniProt ID:</b>	<a href="#">Q01813</a>
<b>Cytogenetics:</b>	10p15.2
<b>Domains:</b>	PFK
<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 a member of the phosphofructokinase A protein family. The encoded enzyme is the platelet-specific isoform of phosphofructokinase and plays a key role in glycolysis regulation. This gene may play a role in metabolic reprogramming in some cancers, including clear cell renal cell carcinomas, and cancer of the bladder, breast, and lung. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>