

## Product datasheet for **SC208602**

### **PCK1 (NM\_002591) Human 3' UTR Clone**

#### **Product data:**

|               |                                     |
|---------------|-------------------------------------|
| Product Type: | 3' UTR Clones                       |
| Product Name: | PCK1 (NM_002591) Human 3' UTR Clone |
| Vector:       | pMirTarget (PS100062)               |
| Symbol:       | PCK1                                |
| Synonyms:     | PCKDC; PEPCK-C; PEPCK1; PEPCKC      |
| ACCN:         | NM_002591                           |
| Insert Size:  | 2000 bp                             |



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**Insert Sequence:**

>SC208602 3'UTR clone of NM\_002591

The sequence shown below is from the reference sequence of NM\_002591. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCCTTGAAGCAAAGAATAAGCCAGATGTAATCAGGGCCTGAGTGCTTTACCTTTAAATCATTCCCTTT
CCCATCCATAAGGTGCAGTAGGAGCAAGAGAGGGCAAGTGTCCCAAATTGACGCCACCATAATAATCA
TCACCACACCGTGAGCAGATCTGAAAGGCACACTTTGATTTTTTTAAGGATAAGAACCACAGAACACTG
GGTAGTAGCTAATGAAATTGAGAAGGAAATCTTAGCATGCCCAAAAATTCACATCCAATGCATAGT
TTGTTCAAATTTAAGTTACTCAGGCATTGATCTTTTCAGTGTTTTTCACTTTAGCTATGTGGATTAG
CTAGAATGCACACCAAAAAATACTTGAGCTGTATATATATATGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGCATGTATGTGCACATGTGTCTGTGTGGTATATTTGTGTATGTGATTTGTATGACTGTT
ATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTCTTGAAAAA
AGTTGCTTTGTTAATATTGTCTTAAATTATTTTTATACACCATTGTTCTTACCTTTACATTAATT
GCAATATTTCCCTTACTACTTCTTGGAAAAAATTACAAAATGAAGTTTTATAGAAAAGATGGATTT
GCTTTGCTTGGTTTTCTTATTTGAGCTACCAAGAGGAGAGAACTCTGATTAATATCTTGTGATTTAA
ATCCTGCCCTCCCAAGAAGGTGGGGACGTTCAAGATCACACTGAAGAGGGGGTGCATTGCCTGGT
CCCAGGGAGAAGGAGGGAGCAGATGGGGAGGAATGAGGCAGGGAACCATGGTTGGGGTTTTCTGAATTT
GCTGAAGCCACTAGTTGGCATCCTTTAACAATTCTACAACTTTAGATGGTGAGGCTTATGTGGCAGG
ACTGGGAGGGTTAATGCATGCTTTTTCAGTGTGGATCTGGAGGGGTCTCAGGCTTCCAAAAAAT
ACATTGTGGACAGTTTCATAGGATTTTGCCTTTTAACTTTCAAAGCAACAGTTTTCTCAACTGTCATC
CCCGCGGGGAGCAGAGGAAGACAAGTGAGAAGGAAAAGGGGACAGGATCTGGGTTGAGCAAGCATTAA
TTGAGCGCCTTCTGTATCCCGGACATCATGCCAACCCATGGGCTGCCCGAGAAGAGAGGTGGTGGTT
TGGTCCCCAGCTCTGCCTTGAACCCTCACCTGCTCCTCTACTCCAGTGTTTATTGGATATTCCAGA
ACAGTCCAAACGAACCATAAACTTTATATCACAGATTCAATCTGTGTAATACTATTATCTTCAAGTTG
TAGTTTCTTTCTGGGCCAGGCTGTGAAATTGGCTTCAACCCTACCACACCCAGCGGGCAGGCTTGT
TCTTATGCACACTCCACCCTCCAGTCTCCTCAACTGGAAAACCTGCCTTTTTCTCACTTCTCTG
CTCCTTACAATGGCTTCATATGGAAGGTGAAGCTGAGATCACCCAAATTTACAGGTGAGGAAACTGAG
GTCAAGCTAGGAGCGTCCAGCGGGCTGAGAAATTGCCAGGATTTCTTCCCATTAAAGGAGCTGAGAG
TCTTAGCTCCAGACAGTTGGCTTGTGTAATATCAAAACCACCGAAGGGGAAAAACCACTTACTGGAA
TTAAATGTCTATCTGCTGTATTAGTTAAATCAGTGGCGTTCAAACCTGTTTCTCCTTTTCACTGCGGAA
CACGTTCTTGACATGACTTGACTCAGAGTCCCATGTCTAAAGGAGACAGAGCCCAAGGCAGCCACCT
GAAGCTGGGGAGGGAGTCCAAAGTGCAAGCCACCTGGTCTCCATTTCCCGCCCCCTGGGGGCTTTGG
GCAGCTCCTTGGACCCCTGAAAGAGGCCACCAGGATAAACTTTGTTAAAAATGCATGCCTTGTGCCCA
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
    
```

**Restriction Sites:**

SgfI-MluI

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

[NM\\_002591.4](#)

**Summary:** This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized. [provided by RefSeq, Jul 2008]

**Locus ID:** 5105

**MW:** 74.9