

## Product datasheet for **SC205032**

### PCB (PC) (NM\_000920) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** PCB (PC) (NM\_000920) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** PC  
**Synonyms:** PCB  
**ACCN:** NM\_000920  
**Insert Size:** 509 bp  
**Insert Sequence:** >SC205032 3'UTR clone of NM\_000920  
The sequence shown below is from the reference sequence of NM\_000920. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGTGACGACCTCATCCTGGAGATCGAGTGAATCTTGCCCCAGACCGGCAGCCTGGCCATCCCCAAGCCTT
CAACAGAAGCTGTGCTGCCACGGCAGGCCAGGCCAGCCAGTGCCGAGGCCAGGAAGGCCGGCCGTG
GAGGTCCTGTCCACAGCTGGACAGGAGAGACCCGCTGCGGTGTTTCCTTTTCAGCCATCGTCCT
TTCTCCGGCGGACAGCTGCTTACATGTTTCATCTCTTGCCAAATAAGGGTCCCCTCCTACTGGAGACT
ACAAGTGGTGGGTGAGTGGTCTAGGACCCAGGGGAGGTTTAGGGTCTATCTCCTGGGGGAAGGGG
AGATCTAAGATGTCCCAGGTCCTGGGAAGTTTACTCAATAAAGCTGGCTTTCCCCTGCCCTCCATGCTG
GATCCTGTGCAGCCCCAGCCTGCACCACTCAGCAGTGGGGGGCTGCCTTTCAAGCTCCCATGGGTGG
GCAGGTCAGTTGTGTCGTTCTCCTCA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
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\\_000920.4](#)



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**Summary:**

This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008]

**Locus ID:**

5091

**MW:**

18.5