

## Product datasheet for **RC230275**

### **PCCB (NM\_001178014) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCCB (NM_001178014) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCCB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC230275 representing NM\_001178014  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGGGCGCATTACGGGTGGCGGGCGGTGGGGCAAGGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCCG  
 CGGTCCGAGCCTTTGCAGCCAGGCCACCTCTGTTAACGAACGCATCGAAAAACAAGCGCCGACCGCGCT  
 GCTGGGAGGGGGCAACGCCGATTGACGCGCAGCACAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATC  
 AGTCTCTTGTGGACCCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTGCAGATTTTG  
 GAATGGCTGCTGATAAGAATAAGTTTCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAG  
 ATTGTTTATGTCTTCAGTCAGCAAATAATAGGCTGGGCACAGTGGCTCCCGCTTGTCTCAGCACTT  
 TGGGAGGCCGAGGATTTACAGTTTTTGGAGGCAGTCTGTCAGGAGCACATGCCAAAAGATCTGCAAAA  
 TCATGGACCAGGCCATAACGGTGGGGGCTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCAGGATCCA  
 AGAAGGAGTGGAGTCTTTGGCTGGCTATGCAGACATCTTCTGAGGAATGTTACGGCATCCGGAGTCATC  
 CCTCAGATTTCTCTGATCATGGGCCATGTGCTGGTGGGGCCGCTACTCCCCAGCCCTAACAGACTTCA  
 CGTTCATGGTAAAGGACCTCCTACCTGTTTCATCACTGGCCCTGATGTTGTGAAGTCTGTCAACATGA  
 GGATGTTACCCAGGAGGAGCTCGGTGGTCCAAGACCCACACCACCATGTGAGGTGTGGCCACAGAGCT  
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 TTGTTGGCAACCAACCTAAGGTGGCCTCAGGATGCTGGATTAATTCATCTGTGAAAGGGGCTCGTTT  
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 ATCATCTTCAAAGGGCATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAACCCTT  
 TCCCTGCAGCAGTGCAGGGTTTGTGGATGACATCATCAACCTTCTCCACACGTGCCGAATCTGCTG  
 TGACCTGGATGTCTTGGCCAGCAAGAAGGTACAACGCTCCTGGAGAAAACATGCAATATTCCATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230275 representing NM\_001178014  
 Red=Cloning site Green=Tags(s)

MAAALRVAAVGARLSVLASGLRAAVRSLCSQATSVNERIENKRRTALLGGGQRRIDAQHKRGKLTARERI  
 SLLLDPGSFVESDMFVEHRCADFMAADKNKFPGDSSVVTGRGRINGRLVYVFSQQIIGWAQWLPLVISAL  
 WEAEDFTVFGGSLSGAHAQKICKIMDQAITVGAPVIGLNDSSGGARIQEGVESLAGYADIFLRNVTASGVI  
 PQISLIMGPCAGGAVYSPALTDFTFMVKDTSYLFITGPDVVKSVTNEDVTQEELGGAKHTTMSGVAHRA  
 FENDVDALCNLRDFFNYLPLSSQDPAPVRECHDPSDRLVPELDTIVPLESTKAYNMVDIIHVSVDREFF  
 EIMPNYAKNIIIVGFARMNGRTVIGVGNQPKVASGCLDINSSVKGARFVRFCDAFNIPLITFVDVPGFLPG  
 TAQYEGGIIRHGAKLLYAFEAETVPKVTVITRKAYGGAYDVMSSKHLCGDTNYAWPTAEIIVMGAKGAVE  
 IIFKGHENVEAAQAEYIEKFANPFPAAVRGFVDDIIQPSSTRARICCDLDVLASKKVQRPWRKHANIPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

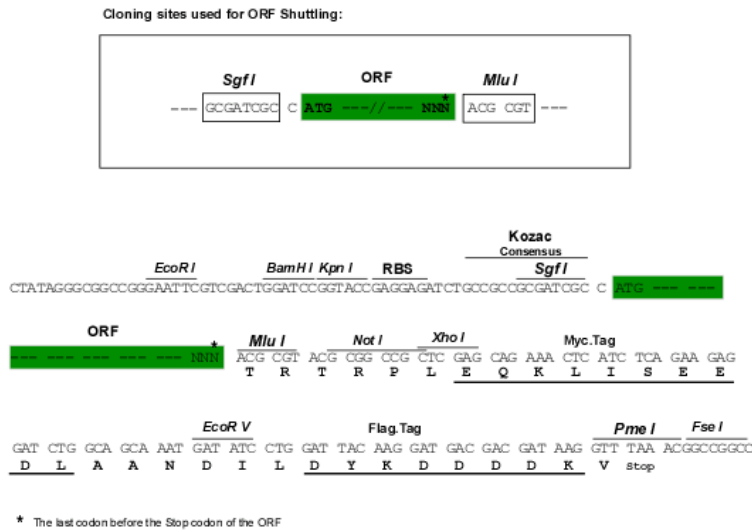
**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8067\\_c03.zip](https://cdn.origene.com/chromatograms/mk8067_c03.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001178014

ORF Size: 1677 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001178014.1](#), [NP\\_001171485.1](#)

RefSeq ORF: 1680 bp

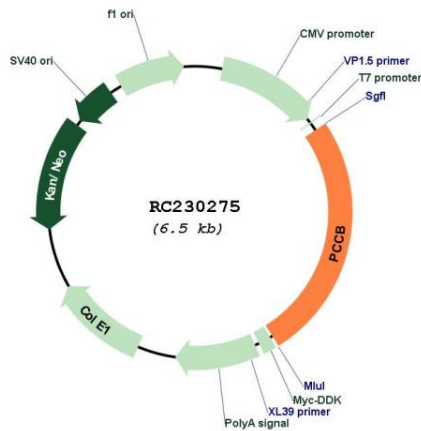
Locus ID: 5096

UniProt ID: [P05166](#)

Cytogenetics: 3q22.3

Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation
MW:	61 kDa
Gene Summary:	The protein encoded by this gene is a subunit of the propionyl-CoA carboxylase (PCC) enzyme, which is involved in the catabolism of propionyl-CoA. PCC is a mitochondrial enzyme that probably acts as a dodecamer of six alpha subunits and six beta subunits. This gene encodes the beta subunit of PCC. Defects in this gene are a cause of propionic acidemia type II (PA-2). Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]

### Product images:



Circular map for RC230275