

Product datasheet for **RC202019**

PCCB (NM_000532) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCCB (NM_000532) 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:

>RC202019 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGGCATTACGGGTGGCGGCGGTGGGGCAAGGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCCG
 CGGTCCGAGCCTTTGCAGCCAGGCCACCTCTGTTAACGAACGCATCGAAAAACAAGCGCCGACCGCGCT
 GCTGGGAGGGGGCAACGCCGATTGACGCGCAGCACAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATC
 AGTCTCTTGCTGGACCCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTCAGATTTTG
 GAATGGCTGCTGATAAGAATAAGTTTCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAAG
 ATTGTTTTATGTCTTCAGTCAGGATTTTACAGTTTTTGGAGGCAGTCTGTCAGGAGCACATGCCAAAAG
 ATCTGCAAAATCATGGACCAGGCCATAACGGTGGGGCTCCAGTATTGGGCTGAATGACTCTGGGGGAG
 CACGGATCCAAGAAGGAGTGGAGTCTTTGGCTGGCTATGCAGACATCTTCTGAGGAATGTTACGGCATC
 CGGAGTCATCCCTCAGATTTCTCTGATCATGGGCCATGTGCTGGTGGGCGCGTCTACTCCCAGCCCTA
 ACAGACTTCACGTTTCATGGTAAAGGACACCTCCTACCTGTTTCATCACTGGCCCTGATGTTGTGAAGTCTG
 TCACCAATGAGGATGTTACCCAGGAGGAGCTCGGTGGTGGCAAGACCCACACCACCATGTGAGGTGTGGC
 CCACAGAGCTTTTAAAAATGATGTTGATGCCTTGTGTAATCTCCGGGATTTCTCAACTACCTGCCCTG
 AGCAGTCAGGACCCGGCTCCCGTCCGTGAGTGCCACGATCCAGTACCGTCTGGTTCTGAGCTTGACA
 CAATTGTCCCTTTGGAATCAACCAAAAGCCTACAACATGGTGGACATCATACTCTGTTGTTGATGAGCG
 TGAATTTTTGAGATCATGCCAATTATGCCAAGAATCATTGTTGGTTTTGCAAGAATGAATGGGAGG
 ACTGTTGGAATGTTGGCAACCAACCTAAGTGGCCTCAGGATGCTTGGATATTAATTCATCTGTGAAAG
 GGGCTCGTTTTGTCAGATTCTGTGATTCATTCAATATCCACTCACCCTTTGTTGATGTCCTCGGCTT
 TCTACCTGGCACAGCACAGGAATACGGGGCATCATCCGGCATGGTGGCAAGCTTCTCTACGCATTTGCT
 GAGGCAACTGTACCCAAAGTACAGTCATCACAGGAAGGCTATGGAGGTGCCTATGATGTCATGAGCT
 CTAAGCACCTTTGTTGATACCAACTATGCCTGGCCACCGCAGAGATTGACGTCATGGGAGCAAAAGG
 CGCTGTGGAGATCATCTCAAAGGGCATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTT
 GCCAACCTTTCCCTGCAGCAGTGCAGGGTTTGTGGATGACATCATCAACCTTCTCCACACGTGCC
 GAATCTGCTGTGACCTGGATGTCTTGCCAGCAAGAAGGTACAACGTCTTGGAGAAAACATGCAAAAT
 TCCATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202019 protein sequence
 Red=Cloning site Green=Tags(s)

MAAALRVAAVGARLSVLAASGLRAAVRSLCSQATSVNRIENKRRTALLGGGQRRIDAQHKRGKLTARERI
 SLLLDPGSFVESDMFVEHRCADFGMAADKNKFPGDSVVTGRGRINGRLVYVFSQDFTVFGGSLSGAHAQK
 ICKIMDQAITVGAPVIGLNDSSGARIQEGVESLAGYADIFLRNVTASGVIPQISLIMGPCAGGAVYSPAL
 TDFTFMVKDTSYLFIITGPDVVKSVTNEVDVTEELGGAKHTTMSGVAHRAFENDVALCNLRDFNFYPL
 SSQDPAPVRECHDPSDRLVPELDTIVPLESTKAYNMVDIIHNSVDEREFIEIMPNYAKNIIIVGFARMNGR
 TVGIVGNQPKVASGCLDINSSVKGARFVRFCDAFNIPLITFVDVPGFLPGTAQEYGGIIRHGAKLLYAF
 EATVPKVTVITRKAYGGAYDVMSSKHLCGDTNYAWPTAEIAVMGAKGAVEIIFKGHENVEAAQAEYIEKF
 ANPFPAAVRGFVDDIIQPSSTRARICCDLDVLASKKVQRPWRKHANIPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6012_h11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000532

ORF Size: 1617 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_000532.5](#)

RefSeq Size: 1825 bp

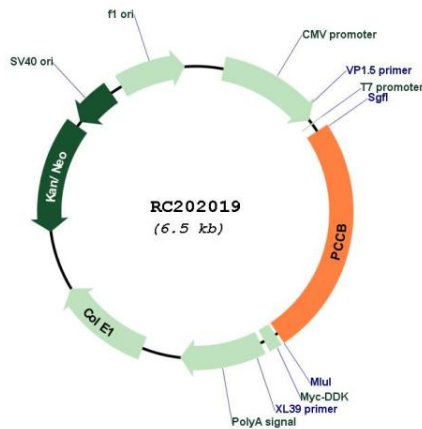
RefSeq ORF: 1620 bp

Locus ID: 5096

UniProt ID: [P05166](#)

Cytogenetics:	3q22.3
Domains:	Carboxyl_trans
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation
MW:	58.2 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 RC202019