

## Product datasheet for **RR206379**

### **Pcbd1 (NM\_001007601) Rat Tagged ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Pcbd1 (NM\_001007601) Rat Tagged ORF Clone

**Tag:** Myc-DDK

**Symbol:** Pcbd1

**Synonyms:** DCoH; Pcbd; Pcd; Phs; TCF1

**Vector:** pCMV6-Entry (PS100001)

**E. coli Selection:** Kanamycin (25 ug/mL)

**Cell Selection:** Neomycin

**ORF Nucleotide Sequence:** >RR206379 representing NM\_001007601  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGGCTGGCAAGGCACACAGGCTGAGTGCTGAGGAACGGGACCAGCTGCTGCCAAACCTGCGGGCTGTGG**  
**GGTGGAATGAACTGGAAGCCGAGATGCCATCTCAAACAGTTCATTTAAAGACTTCAACAGGGCTTT**  
**TGGCTTCATGACAAGAGTCGCCCTGCAGGCTGAAAAGCTGGACCACCATCCGAGTGGTTAACGTGTAC**  
**AACAAGGTCCATATCACCTTGAGCACCCACGAATGTGCCGGTCTTCTGAACGGGATATAAACCTGGCCA**  
**GCTTCATCGAACAAGTTCGCCGTCTATGACA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RR206379 representing NM\_001007601  
Red=Cloning site Green=Tags(s)

**MAGKAHRLSAEERDQLLPNLRVAGWNELEGRDAIFKQFHFKDFNRAFGMTRVALQAEKLDHHPWFNVY**  
**NKVHITLSTHECAGLSERDINLASFIEQVAVSMT**

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

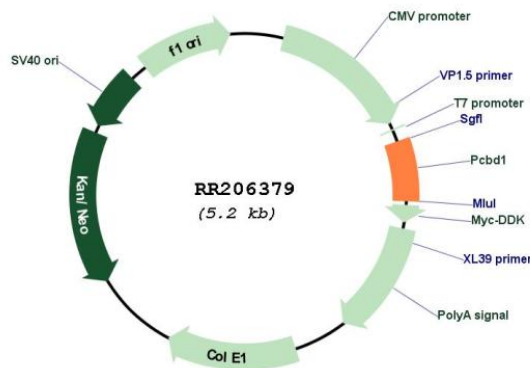


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001007601

ORF Size: 312 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<u><a href="#">NM_001007601.2</a></u> , <u><a href="#">NP_001007602.1</a></u>
<b>RefSeq Size:</b>	776 bp
<b>RefSeq ORF:</b>	315 bp
<b>Locus ID:</b>	29700
<b>UniProt ID:</b>	<u><a href="#">P61459</a></u>
<b>Cytogenetics:</b>	20q11
<b>MW:</b>	12 kDa
<b>Gene Summary:</b>	This gene encodes a member of the pterin-4-alpha-carbinolamine dehydratase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein functions as both a dehydratase involved in tetrahydrobiopterin biosynthesis, and as a cofactor for HNF1A-dependent transcription. [provided by RefSeq, Jan 2014]