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# **PCBD1 cDNA**

Catalog Number: ATGD0121

# **PRODUCT INFORMATION**

# Catalog number

ATGD0121

#### **Product type**

cDNA

# **Species**

Human

#### **NCBI Accession No.**

NP 000272.1

#### **Alternative Names**

DCOH, PCBD, PCD, PHS

#### mRNA Refseq

NM\_000281.3

# **OMIM**

126090

#### **Chromosome location**

10q22

#### PRODUCT SPECIFICATION

#### **Formulation**

Lyophilized

# **Storage**

Store the plasmid at -20C.

# **cDNA Size**

315bp

# Preparation before usage

- 1. Centrifuge at 7000rpm for 1 minute.
- 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.

Each tube contains approximately 10ug of lyophilized plasmid.

#### **Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

# **Cloning Vector**

pATGen (puc19-derived cloning vector)

# **General Description**



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PCBD1 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. A deficiency of this enzyme leads to hyperphenylalaninemia. Alternative splicing results in multiple transcript variants.

#### **DATA**

# Sequence nucleotides

ATGGCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTGCCAAACCTGAGGGCTGTGGGATGAGGATGAGCTGGAAGGCCGTGATGCCATCTTCAAGCAGTTTCATTTCAAAGACTTCAACAGGGCCTTTGGGTTCATGACAAGAGTGGCCTGCAGGCTGAGAAACTGGACCACCCATCCTGAATGGTTTAACGTGTACAACAAGGTCCACATCACGCTGAGCACCATGAGTGTGCCGGCCTTTCAGAACGGGACATAAACCTGGCCAGCTTCATCGAACAAGTAGCAGTGTCCATGACATAG

### **Transaction Sequence**

MAGKAHRLSA EERDQLLPNL RAVGWNELEG RDAIFKQFHF KDFNRAFGFM TRVALQAEKL DHHPEWFNVY NKVHITLSTH ECAGLSERDI NLASFIEQVA VSMT

