

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

```
ATGGCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTGCCAACCTGAGGGCTGTGGGGTGAATG
AGCTGGAAGGCCGTGATGCCATCTTCAAGCAGTTTCATTTCAAAGACTTCAACAGGGCCTTTGGGTTTCATGACAAGAGTGGC
CCTGCAGGCTGAGAACTGGACCACCATCCTGAATGGTTTAACGTGTACAACAAGGTCCACATCACGCTGAGCACCCATGA
GTGTGCCGCGCCTTTCAGAACGGGACATAAACCTGGCCAGCTTCATCGAACAAGTAGCAGTGTCCATGACATAG
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Transaction Sequence

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MAGKAHRLSA EERDQLLPNL RAVGWNELEG RDAIFKQFHF KDFNRAFGFM TRVALQAEKL DHHPEWFNVY NKVHITLSTH
ECAGLSERDI NLASFIEQVA VSMT
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