

Product datasheet for **SC120016**

PCBD1 (NM_000281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCBD1 (NM_000281) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCBD1
Synonyms:	DCOH; PCBD; PCD; PHS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000281 edited ATGGCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTGCCAAACCTG AGGGCTGTGGGGTGAATGAGCTGGAAGGCCGTGATGCCATCTTCAAGCAGTTTCATTTT AAAGACTTCAACAGGGCCTTTGGGTTTCATGACAAGAGTGCCCTGCAGGCTGAGAAACTG GACCACCATCCTGAATGGTTTAACTGTACAACAAGGTCCACATCACGCTGAGCACCCAT GAGTGTGCCGGCCTTTCAGAACGGGACATAAACCTGGCCAGCTTCATCGAACAGTAGCA GTGTCCATGACATAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000281 unedited NGGTTACATATTTGNTATACGACTCACTATTAGGGCGCCGCGATTCCGGCACGAGGGCC GCCCGCGCCATGGCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTG CCAAACCTGAGGGCTGTGGGGTGAATGAGCTGGAAGGCCGTGATGCCATCTTCAAGCAG TTTCATTTCAAAGACTTCAACAGGGCCTTTGGGTTTCATGACAAGAGTGCCCTGCAGGCT GAGAACTGGACCACCATCCTGAATGGTTTAACTGTACAACAAGGTCCACATCACGCTG AGCACCCATGAGTGTGCCGGCCTTTCAGAACGGGACATAAACCTGGCCAGCTTCATCGAA CAAGTAGCAGTGTCCATGACATAGACCCTGCCCTTCTCTTTGAATTCTCCGGGGGAAA GGGTGACTGAACTGGGAGTCCAGGGAGGGAGCTGAGGAGCCCTTACCCTCCCACCACTCC CCTCCCAAGACCAGCCCGCCGTTGAGGGCTGAGTCCCTTGCTGTGGGATGTGCCAGTG TCCCCACCAACACCAGGAATTTAGACCTTTTCCCTGCACCACTCTTTCATCCTGNGGGC TCTGTTACTAATTTGAATAAACTCTCCCTTTCTTTGCAACTTCCCAGCAACAATAAT GATTTTCTTGCCAGGCCGTCTCTTGCTCCCTATTCATTTCCCAGGAAGCTGTGATACAGG GTGAAATAAAGTCTTGTCTTAGAAAACCAGACCCTAAACCCCCACTATGTAATAGAAAC ACATGTGGTTTTATGTCTCANATAAACTATTATCACTTGGAAAAAAAAAAAAAAAAAAAA AACTCGACTCTAGATTGCGGNCCCGCTCATAGCTGTTTCTGACAGACCCCGGTTGCATT CCTGTGACCCCTTCCC



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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000281 unedited GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCCAGTGATATAATAGT TTTATTTGAGACATAAAAACACATGTGTTTCTATTACATAGTGTGGGTTTAGGGTCCTG GTTTCTAAGACAAGACTTTATTTACCCTGTATCACAGCTTCCTGGGAAATGAATTAGGG AGCAAGAGACGGCCTGGCAAGAAAATCATTATTGTTGCTGGGAAGTTGCAAAGAAAGGGG AGAGTTTATTCAAATTAGTGTAAACAGAGCCCCAGGATGAAGAGAGTGGTGCAGGGAAAA GGTCTAAATTCCTGGTGTGGTGGGACACTGGCACATCCACAGCAAGGACTCAGCCCT CAACGGCGCGGCTGGGTCTTGGGAGGGAGTGGTGGGAGGTAAGGGCTCCTCAGCTCC CTCCCTGGACTCCCAGTTCAGTCAACCCTTTCCCCCGGAAGAATCAAAGAGGAAGGGCAG GGTCTATGTCATGGACACTGCTACTTGTTCGATGAAGCTGGCCAGGTTTATGTCCCGTTC TGAAAGGCCGGCACACTCATGGGTGCTCAGCGTGTGGACCTTGTGTACACGTTAA CCATTCAGGATGGTGGTCCAGTTTCTCAGCCTGCAGGGCCACTCTGTGCATGAACCCAAA GGCCCTGTTGAAGTCTTTGAAATGACACTGCTTGAAGATGGCATCACGGCCTTTCAGCTC ATTCCACCACAGCCCTCAAGTTTGGCAGCAGCTGGTCCCCTCTCTCAGCGCTCAGCCTG TGTGCTTTGCCAGCATGGGCCCGGGCGNCCTTGTGCTAAATTNCGGCGCCGCCCTAAG GGATGCGGATTA AAAACTCCGCCGTTCTTTAACGACCCCGCCTATATAAATTCACCACA GAACCCCTACGGCCATTGGGCAAAGCGCGGGGCTTCCCATTCCTGAAGTCCCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000281
Insert Size:	820 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_000281.2 , NP_000272.1
RefSeq Size:	1025 bp

RefSeq ORF: 315 bp

Locus ID: 5092

UniProt ID: [P61457](#)

Cytogenetics: 10q22.1

Domains: Pterin_4a

Protein Families: Druggable Genome

Gene Summary: 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. A deficiency of this enzyme leads to hyperphenylalaninemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
Transcript Variant: This variant (1) encodes isoform 1.