

Product datasheet for RG202880

PCBD1 (NM_000281) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

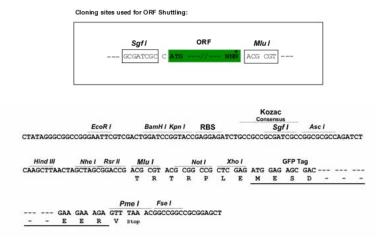
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Product Type:	Expression Plasmids
Product Name:	PCBD1 (NM_000281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCBD1
Synonyms:	DCOH; PCBD; PCD; PHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG202880 representing NM_000281 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGGCAAAGCACACAGGCTGAGCGCTGAGGAGAGGGACCAGCTGCTGCCAAACCTGAGGGCTGTGG GGTGGAATGAGCTGGAAGGCCGTGATGCCATCTTCAAGCAGTTTCATTTCAAAGACTTCAACAGGGCCTT TGGGTTCATGACAAGAGTGGCCCTGCAGGCTGAGAAACTGGACCACCATCCTGAATGGTTTAACGTGTAC AACAAGGTCCACATCACGCTGAGCACCCATGAGTGTGCCGGCCTTTCAGAACGGGACATAAACCTGGCCA GCTTCATCGAACAAGTAGCAGTGTCCATGACA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG202880 representing NM_000281 Red=Cloning site Green=Tags(s)</pre>
	MAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMTRVALQAEKLDHHPEWFNVY NKVHITLSTHECAGLSERDINLASFIEQVAVSMT
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



ACCN:	NM_000281
ORF Size:	312 bp
OTI Disclaimer:	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 <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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).

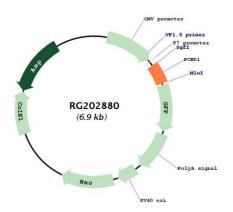
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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 000281.4</u>
RefSeq Size:	1025 bp
RefSeq ORF:	315 bp
Locus ID:	5092
UniProt ID:	<u>P61457</u>
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]

Product images:



Circular map for RG202880

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