

Product datasheet for **MG200344**

Pcbd1 (NM_025273) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pcbd1 (NM_025273) Mouse 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: >MG200344 representing NM_025273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGCAAGGCACACAGGCTGAGCGCCGAGGAGCGAGACCAGCTGCTGCCAAACCTGAGGGCTGTGG
 GGTGGAATGAAGTAGAAGGCCGAGATGCTATCTTCAAGCAGTTCCATTTAAAGACTTCAACAGGGCTTT
 TGGCTTCATGACAAGAGTAGCCCTGCAGGCTGAAAAGCTGGACCACCATCCGAGTGTTAAACGTGTAC
 AACAAAGTCCATATCACCTTGAGCACCCATGAATGTGCCGGTCTTTCGGAACGGGATATAAACCTGGCCA
 GCTTCATCGAACAAGTCGCCGTGTCTATGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200344 representing NM_025273
 Red=Cloning site Green=Tags(s)
 MAGKAHRLSAEERDQLLPNLRVAVGWNEVEGRDAIFKQFHFKDFNRAFGMTRVALQAEKLDHHPWFVNVY
 NKVHITLSTHECAGLSERDINLASFIEQVAVSMT

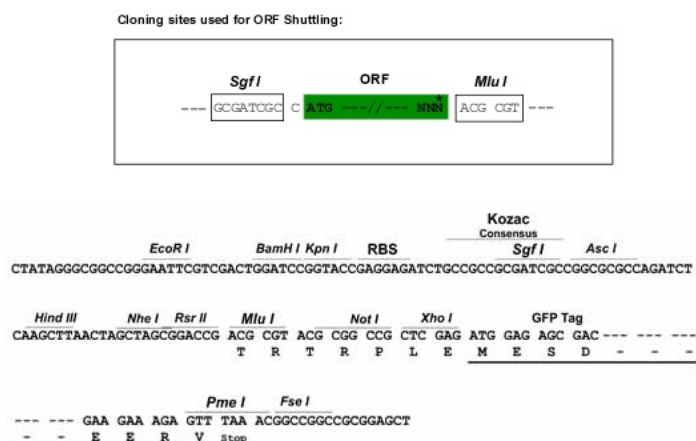
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

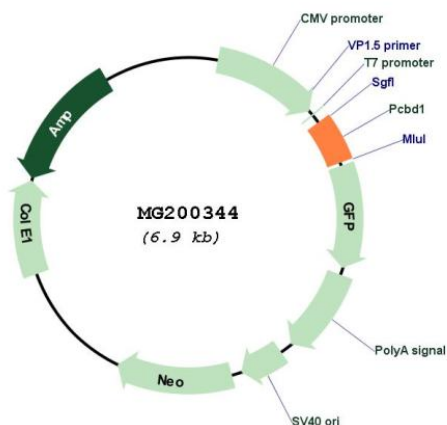


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Cloning Scheme:



Plasmid Map:



ACCN: NM_025273

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](#)

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).
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_025273.4
RefSeq Size:	784 bp
RefSeq ORF:	315 bp
Locus ID:	13180
UniProt ID:	P61458
Cytogenetics:	10 32.14 cM
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. [provided by RefSeq, Apr 2015]