

## **Product datasheet for RG217231**

## DCTD (NM 001921) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: DCTD (NM 001921) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: DCTD

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG217231 representing NM\_001921

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

**GCTTCAG** 

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217231 representing NM\_001921

Red=Cloning site Green=Tags(s)

MVGGGQPCGPNMSEVSCKKRDDYLEWPEYFMAVAFLSAQRSKDPNSQVGACIVNSENKIVGIGYNGMPNG CSDDVLPWRRTAENKLDTKYPYVCHAELNAIMNKNSTDVKGCSMYVALFPCNECAKLIIQAGIKEVIFMS

DKYHDSDEATAARLLFNMAGVTFRKFIPKCSKIVIDFDSINSRPSQKLQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

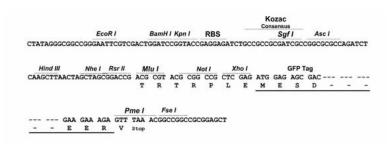
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## **Cloning Scheme:**





**ACCN:** NM\_001921

ORF Size: 567 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:** 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: <u>NM 001921.2</u>, <u>NP 001912.2</u>

RefSeq Size: 2019 bp
RefSeq ORF: 537 bp
Locus ID: 1635
UniProt ID: P32321



Cytogenetics: 4q35.1

**Domains:** dCMP\_cyt\_deam

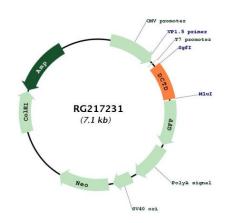
**Protein Pathways:** Metabolic pathways, Pyrimidine metabolism

**Gene Summary:** The protein encoded by this gene catalyzes the deamination of dCMP to dUMP, the

nucleotide substrate for thymidylate synthase. The encoded protein is allosterically activated by dCTP and inhibited by dTTP, and is found as a homohexamer. This protein uses zinc as a cofactor for its activity. Two transcript variants encoding different isoforms have been found

for this gene. [provided by RefSeq, Jul 2008]

## **Product images:**



Circular map for RG217231