

Product datasheet for RC217231

DCTD (NM_001921) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DCTD (NM_001921) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DCTD
Synonyms: MGC111062
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC217231 representing NM_001921
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGGGCGGGGCCAGCCGTGCGGACCCAACATGAGTGAAGTTTCTGCAAGAAACGGGACGACTATT
TGAATGGCCAGAGTATTTATGGCTGTGGCCTTCTTATCAGCACAGAGAAGCAAAGATCCAAATCCCA
GGTCGGCGCCTGCATCGTGAATTCAGAAAACAAGATTGTCGGGATTGGGTACAATGGGATGCCAAATGGG
TGCAGTGATGACGTGTTGCCTTGGAGAAGGACAGCAGAGAATAAGCTGGACACCAATACCCGTACGTGT
GCCATGCGGAGCTGAATGCCATCATGAACAAAAATTCGACCGATGTGAAAGGCTGTAGTATGTATGTTGC
CTTGTTCCCTTGAATGAATGCGCTAAGCTCATCATCCAGGCAGGTATAAAGAAGTGATTTTCATGTCT
GATAAATACCATGATAGTGACGAGGCAACTGCTGCGAGGCTCCTGTTAATATGGCCGGGTGACATTCC
GGAAATTCATACCGAAGTGACGAAGATTGTCATTGACTTTGATTCAATTAACAGCAGACCGAGTCAAAA
GCTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217231 representing NM_001921
Red=Cloning site Green=Tags(s)

MVGGGQPCGPNMSEVSKKRDDYLEWPEYFMAVAFLSAQRSKDPNSQVGACIVNSENKIVGIGYNGMPNG
CSDDVLPWRRTAENKLDTKYPYVCHAELNAIMNKNSTDVKGCSMYVALFPCNEAKLIIQAGIKEVIFMS
DKYHDSDEATAARLLFNMAGVTRFKFIPKCSKIVIDFDSINSRPSQKLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1461_a12.zip



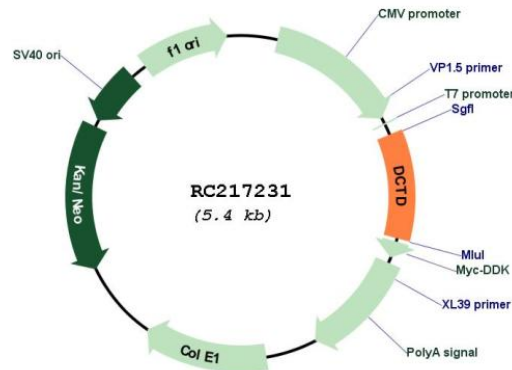
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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.

RefSeq Size: 2019 bp

RefSeq ORF: 537 bp

Locus ID: 1635

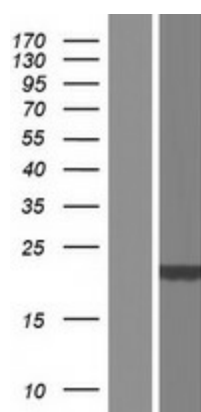
Domains: dCMP_cyt_deam

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

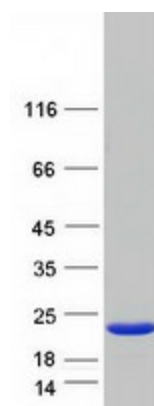
MW: 21.01 kDa

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 homo-hexamer. 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:



Western blot validation of overexpression lysate (Cat# [LY419656]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217231 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DCTD protein (Cat# [TP317231]). The protein was produced from HEK293T cells transfected with DCTD cDNA clone (Cat# RC217231) using MegaTran 2.0 (Cat# [TT210002]).