

Product datasheet for **RN215954**

Dctd (NM_001161512) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dctd (NM_001161512) Rat Untagged Clone
Tag: Tag Free
Symbol: Dctd
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215954 representing NM_001161512
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTATACACCCAACATGAGTGACATTTCTGCAAAAAACGGGATGACTATCTGGAGTGGCCGGAGT
ATTTTCATGGCGGTAGCCTTCTTGTGTCAGCACAAAGAAGCAAGGACCCAAGTCCCAGTGGGAGCCTGCAT
TGTGAATACAGAAAACAAGATCGTTGGGATCGGGTACAATGGGATGCCAAATGGGTGCACGGATGACCTG
TTGCCCTGGAGGAGAACAGCAGAAAACAAGCTGGATACTAAATACCCCTTATGTGTGCCACGCCGAGCTGA
ACGCCATCATGAACAAGAATTCGCCGACGTGAAGGGCTGCAGTATGTATGTGGCCTTGTTCCCATGTAA
TGAATGTGCGAAGCTCATCATTAGGCAGAAAATTACACCAAAGTACAGCAAGATTGTCATTGATTTTCG
ATTCGATTAATAGCCGTCGAGTCAGAAGCCTCAGTGAGTTTCGAGCCCCGAAGAAGATGACACCCAC
ACACAAGGGGCTCCCTGAGCCTTCTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001161512
Insert Size: 522 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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:	<u>NM_001161512.1, NP_001154984.1</u>
RefSeq Size:	2021 bp
RefSeq ORF:	522 bp
Locus ID:	290741
UniProt ID:	<u>Q5M9G0</u>
Cytogenetics:	16q11
Gene Summary:	Supplies the nucleotide substrate for thymidylate synthetase.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, and lacks an alternate exon in the 3' coding region that causes a frameshift, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1.