

Product datasheet for **SC118945**

DCTD (NM_001921) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DCTD (NM_001921) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | DCTD |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC118945 sequence for NM_001921 edited (data generated by NextGen Sequencing) |

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ATGAGTGAAGTTTCCTGCAAGAAACGGGACGACTATTTGGAATGGCCAGAGTATTTTATG
GCTGTGGCCTTCTTATCAGCACAGAGAAGCAAAGATCCAAATCCAGGTCGGCGCCTGC
ATCGTGAATTCAGAAAACAAGATTGTCGGGATTGGGTACAATGGGATGCCAAATGGGTGC
AGTGATGACGTGTTGCCTTGGAGAAGGACAGCAGAGAATAAGCTGGACACCAAATACCCG
TACGTGTGCCATGCGGAGCTGAATGCCATCATGAACAAAAATTCGACCGATGTGAAAGGC
TGATGATGTATGTGCGCCTTGTTCCCTTGTAATGAATGCGCTAAGCTCATCATCCAGGCA
GGTATAAAAGAAGTGATTTTCATGTCTGATAAATACCATGATAGTGACGAGGCAACTGCT
GCGAGGCTCCTGTTAATATGGCCGGGGTGACATTCGGAAATTCATACCGAAGTGCAGC
AAGATTGTCATTGACTTTGATTCAATTAACAGCAGACCGAGTCAAAGCTTCAGTGA
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Clone variation with respect to NM_001921.2
315 t=>c



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_001921 unedited</p> <pre>GGTCAAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCGGCGGCGGG GCCGAGCACCCGGCTGCGCGGGAGCCGGCACCAGGNTGACCCAACATGAGTGAAGTTTCC TGCAAGAACGGGACGACTATTTGGAATGGCCAGAGTATTTATGGCTGTGGCCTTCTTAT CAGCACAGAGAAGCAAAGATCCAAATCCCAGGTCGGCGCCTGCATCGTGAATTCAGAAA ACAAGATTGTCCGGATTGGGTACAATGGGATGCCAAATGGGTGCAGTGTGACGTGTTGC CTTGAGAAGGACAGCAGAGAATAAGCTGGACACCAAATACCCGTACGTGTGCCATGCCG AGCTGAATGCCATCATGAACAAAAATTCGACCGATGTGAAAGGCTGTAGTATGTATGTCC CCTTGTTCCCTTGAATGAATGCCTAAGCTCATCATCCAGGCAGGTATAAAAGAAGTGA TTTTCATGTCTGATAAATACCATGATAGTGACGAGGCAACTGCTGCGAGGCTCCTGTTTA ATATGGCCGGGGTACATTCCGGAAATTCATACCGAAGTGCAGCAAGATTGTCATTGACT TTGATTCAATTAACAGCAGACCGAGTCAAAGCTTCAGTGAGTTACATCTCATTCAATCT CCAGAAGATTGGGATTATCGTCTTCTAAGAGGTTGCTAATGCCTTTCATCTTGAAGTTAC ACATAACTTCTTACTAGCCAGTATGGCAAAGTAGGCATCTAAAGAATATAAAGCCTCAN ATCTTCCTTACTGTCTCTTGNCCATGGAATCTACATGTGTTTGAAGTATTGCTTTAGG NTTAAANATAGGAGCCTGTGGTGGCCTGTGACAGGGCTAGAACGAGATGCCTNCCCTTNC TGTGCTGNCTGNCTGGGAGC</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_001921 unedited</p> <pre>TCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTTTGGTAGGGTAGAT TTTAATAAGATTTTAATAATATTGGTAAGGAGCCAAATACAGAATACCCTAGAATGTGG AATACAAAATCTCAGAGACAAAAATAAAACTCATGAAAATATAAGAGCACTTTAAAAAGG TAATAATCTTTAGGATAAAGAAAGCCTTTTCTCAACACAGGTAAGTGTGATGTTTAAATAA AAATTAATGAGATTAAGAGAAGGGGCACAGCCACAGCTCCCCACCCGCGGTGATTA GGAAGGTGATGCTTGTGTAGGTGAAAGCATGGAGCCAGGCACAGAAGAGCTCCGAACAC CAACAGTCTGCAGTAAGCTGTCTCCACGTGGGTGGAATTTCTCAATCCACTCACGGG ATAGGAATTAATTTCTCTCCAGTTGCAGAGGGCCTTGTACATGAACTGCGTTGGCATG CGGAGGAGGGCAACACATCCATGTTGGGGACCCCTCCATCCACAGCCCAGCTGCCAC CACGGCAGGGCATGGGCTTTGGGGCAACAAGGAGAGACAGGCTGTCTCTTAGGAACA ACTCATTATTCAGCTAACGAAATGGAAGAGCTCCATGTGACCAACANACCCAAATTGAG CCAAAACAACAGGCGTNCACCCCCAGAGGGATAATGTGCCACCCTGTGTGCAGT GGGAGAGCANGAATGGAGGAAATATTCTGGGTCAGTTACTCTCGTCTGTCAAGACA GATGTGCCACCCTATCTCGGATTCGGGAGGGGCTGGGGGTTCCCTCACCTTTGC AGCAAACACTCAATGCTACCGGCATTTGAAGCCTAATTTCTTTCAAGGGCACTTTAGGC CATGCTTACCTTGGCCAAAGGTAACCAAGA</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_001921 |
| Insert Size: | 1960 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). |
| 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: | <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_001921.2 , NP_001912.2 |
| 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: | <p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 through 9 encode the same isoform (9).</p> |