

## Product datasheet for **RR215954**

### Dctd (NM\_001161512) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dctd (NM\_001161512) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dctd  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR215954 representing NM\_001161512  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACTTATACACCCAACATGAGTGACATTTCTGCAAAAAACGGGATGACTATCTGGAGTGGCCGGAGT  
ATTTTCATGGCGGTAGCCTTCTTGTGAGCAGCAAAAGAAGCAAGGACCAAGTCCAGGTGGGAGCCTGCAT  
TGTGAATACAGAAAACAAGATCGTTGGGATCGGGTACAATGGGATGCCAAATGGGTGCAGCGATGACCTG  
TTGCCCTGGAGGAGAACAGCAGAAAACAAGCTGGATACTAAATACCCTTATGTGTGCCACGCCGAGCTGA  
ACGCCATCATGAACAAGAATTCGGCCGACGTGAAGGGCTGCAGTATGTATGTGGCCTTGTTCCCATGTAA  
TGAATGTGCGAAGCTCATCATTGAGCAGAAAATTACACCAAAGTACAGCAAGATTGTCATTGATTTTCG  
ATTCGATTAATAGCCGTCAGGAGCAGAAAGCTCAGTGAGTTTCGAGCCCCGAAGAAGATGACACCCAC  
ACACAAGGGGCTCCCTGAGCCTTCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215954 representing NM\_001161512  
Red=Cloning site Green=Tags(s)

MTYTPNMSDISCKRDDYLEWPEYFMAVAFLSAQRKDPSSQVGACIVNTENKIVGIGYNGMPNGCSDLL  
LPWRRTAENKLDTKYPYVCHAELENAIMNKNSADVKGCSMYVALFPCNECAKLIIQAENSHQSTARLSLIS  
IRLIAVRVRSLEFRAPEEDDTPHTRGSLSLSS

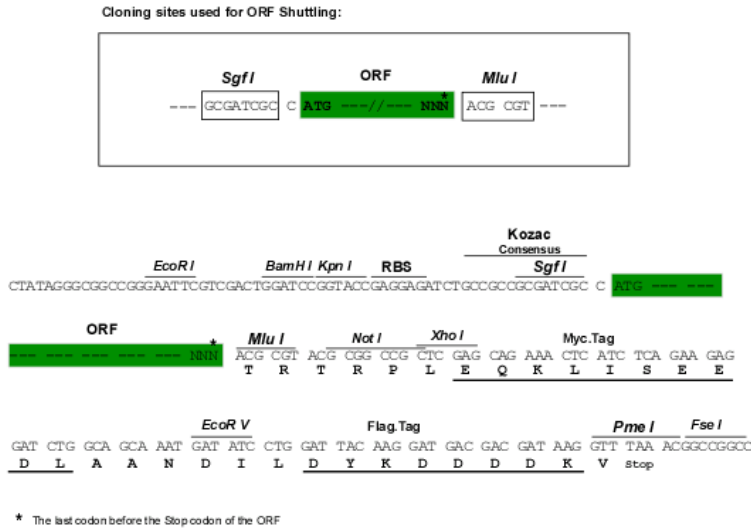
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

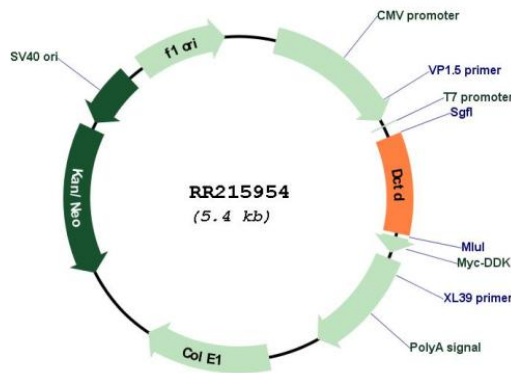


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001161512

ORF Size: 519 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.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u>NM_001161512.1, NP_001154984.1</u>   |
| <b>RefSeq Size:</b>           | 2021 bp   |
| <b>RefSeq ORF:</b>            | 522 bp  |
| <b>Locus ID:</b>              | 290741  |
| <b>UniProt ID:</b>            | <u>Q5M9G0</u>   |
| <b>Cytogenetics:</b>          | 16q11   |
| <b>MW:</b>                    | 19.3 kDa  |
| <b>Gene Summary:</b>          | Supplies the nucleotide substrate for thymidylate synthetase.[UniProtKB/Swiss-Prot Function]  |