

## Product datasheet for MR201423

### Dctpp1 (NM\_023203) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dctpp1 (NM\_023203) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dctpp1  
**Synonyms:** 2410015N17Rik; AI854235; RS21-C6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201423 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGTCCACGGCTGGTGACGGTGAGCGGGTACTGTGGGACAAGAAGACTCTGCTGCTGCCCGCCGTTCA  
GATTTCAGTCCGGAGCCCACGCTTGAGGACATCCGACGCCATGCAGAGTTGCAGCTGAGCGGGACTG  
GGAGCAGTTCCACCAGCCTCGGAACCTGCTGCTAGCCTTGGTGGGAGAAGTGGCGAGCTGGCAGAACTC  
TCCAGTGAAGTCTGATACAGAGCCTGGTCTCAAGCATGGCCACCAAAGGAGAGAGCAGCCCTTCAGG  
AGGAGCTTAGCGACGTCCTCATCTACCTGGTAGCATTAGCAGCCCGCTGCCATGTGGATTTACCTCAAGC  
AGTAATCTCCAAAATGGACACCAACCGCAACGTTACCCAGTCCACCTGTCCCGAGGTTCTGCCTGCAAG  
TACACTGACTTGCCCCGTGGGACCATCTCTGAAAACCAGGCTGTGGGGGCTGGAGACCCTGCCTCGGAGC  
TGAGAGACCAGGCTTCCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201423 protein sequence  
 Red=Cloning site Green=Tags(s)

MSTAGDGERGTGQEDSAAARPFRRFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGEALAE  
FQWKSDEPGPQAWPPKERAALQEELSDVLIYLVALAARCHVDLPQAVISKMDTNRQRYPVHL SRGSACK  
YTDLPRGTISENQAVGAGDPASELRDQAST

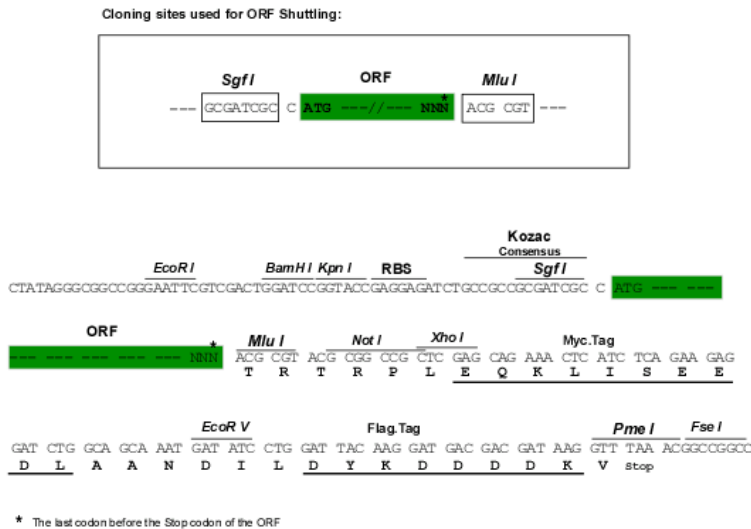
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



**ACCN:** NM\_023203

**ORF Size:** 513 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:** [NM\\_023203.1](#), [NP\\_075692.1](#)

**RefSeq Size:** 648 bp

**RefSeq ORF:** 513 bp

**Locus ID:** 66422

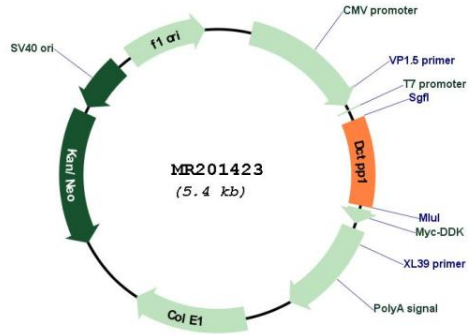
**UniProt ID:** [Q9QY93](#)

**Cytogenetics:** 7 F3

**MW:** 18.8 kDa

**Gene Summary:** Hydrolyzes deoxynucleoside triphosphates (dNTPs) to the corresponding nucleoside monophosphates. Has a strong preference for dCTP and its analogs including 5-iodo-dCTP and 5-methyl-dCTP for which it may even have a higher efficiency. May protect DNA or RNA against the incorporation of these genotoxic nucleotide analogs through their catabolism. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201423