

## Product datasheet for **MC204648**

### **Cdt1 (NM\_026014) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdt1 (NM_026014) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdt1
Synonyms:	2610318F11Rik; AW545653; C76791; Ris2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC048076  
 GAAAGTTGCGCGGAATCCGCGGGAACCTCTTTTGGCGCCATGGCGCAAAGTCGTGTTACCGATTCTA  
 TCGTGGCGTCCGCTGGCCTTACGACTCCGCGGGCAAGTCGATCTGTCTACCCCGAGCCCTGGTGGC  
 CTCGTGGCTCTCGCTTACCCGGAGCAGCAGCCGCAAGCGCGCCCGCCCCAGCCGAACCCGGGAGTG  
 ACCAGCCCGCGCCGCTCGCGCGCGGAGTTACGGCTGCCTGGATTGGACTCCTGCCCAAGTTCTCTGCC  
 TGAGCCCAAGTCCCCAGCTGAGCCAGCCCTCCAGCTGACCCTAGCCCTCCAGCTGACCCTGGCTCCCC  
 GTTTGCCCATCCCCGTCAAGCGAACAAGAGTACAACGTGTTTATGTTGGTCAACAGCCGGCAAGATCC  
 CCTCAGAGGACTCCGTCTCTGAGCTCCAGTCTGCCTGAGCGGGCACGGAAGTTGGGAGCCAGGCACG  
 GGCCCTGAGAGCCGAGTCCAAGAGAATGCTGTGGAGCCTAGTACCCAGATGCCAAGGTGCCACAGAG  
 CAACCATGTGTCGAGAAAGCTCCTGCCTACCAGCGCTTCCATGCTCTGGCTCAGCCTGGTCTCCAGGCC  
 TTGTCCTACCCTACAAGTATCAGGTGCTAGTTGAGATGTTCCGCAGCATGGACACCATTTGAGCATGCT  
 CCACAATCGTCTGAGACTGTGACCTTTGCCAAAGTCAAGCAAGGTGTTCAAGGAGATGATGCGCAAGCGC  
 TTTGAAGAGCGCAATGTGGCCAGATCAAAACCGTGTATCCACGTCGTATCGCTCCGCCAGGAGTGCA  
 ATGTCCCCACCTCAAGGACAGCATCAAGAGATCTGATTACCAGCTCACCATCGAGCCCTTGTGGGCCA  
 GGAGGCTGGCGGTGCCACCCAGCTCACAGCCACGTGCCTCCTGCAGCGCCGGCAAGTCTTCCGGCAGAAC  
 CTGGTGAACGTGCAAGGAACAGCACAAAGTCTTCTGGCTTCACTGAACCCCCCATGGCGGTGCCGG  
 ACGACCAGCTGACCCGCTGGCATCCGCGCTTCAATGTGGACGAGGTGCCTGACATTGAGCCAGCTGAACT  
 GCCCCAGCCTCCTGTACAGAGAAGCTCACCCTGCCAGGAAGTGTGGCCCGTGCCGGAGCTTGATG  
 ACACCAAGATGGAGAAGGCCCTGAGCAACCTGGCCCTGCGCTCGGCTGAGCCCGGTAGCCCTGGGACCT  
 TACTCCACCACTCCCGGCCACTCCGCCAGCCACCCACCTGCTGCCTCTCCGAGCGCCCTGAAGGGTGT  
 GTCCCAAGCACTGCTAGAGCGGATAAAGGGCCAAGGAGTCCAGAAGCAGCTGGCAAGGATGACACGGTGC  
 CCCGAGCAGGAGCTTCCGCTGCAGCGGTTAGAGCGTCTGCCAGAGCTGGCCCGCTGCTGCGCAATGCT  
 TCGTGTCTGAGCGGAAGCCGGCACTCACTATGGAGTGGTCTGTGCAAGGATGGTGGACAGTTGCCAAAC  
 TGCTCTGAGTCCAGGGGAGATGGAGAAACATCTGGTGTCTTGGCAGAGTTGCTGCCGGACTGGCTCAGC  
 CTGCATCGCATCCGCACGATACCTACGTCAGCTGGACAAGGCTGTTGACCTGGCTGGCCTCACTGCGA  
 GGCTGGCCACCACGTCCACGCCGAGGGGCTGTGACTTTGAGCTCCTTGCTGTTTCTTTCATCAGTACA  
 CGACGCACTTACGCCTTAAAGCCTCGCCAGTGTGGGCAGCTATCGTTGCCCATGGATCTCATAAAGTGT  
 GGCATTAAGTTGCTTCTGAGGCTTTGGGGCATCCAGACTCAGCTCTAGGGGAAGTAGACTCTGAAGAG  
 TAGGGTATGTTGGATGGCATTGCACAACTACTCAAGCATTAGGTATGGTCAAGACCAAGATCAAGGT  
 CCAGGTGGAAGCCTAGGCTGGCATAGCCTTGTCTCCCATGAGACTTAAGAATCACACAGACCTTGGACT  
 TTCCTGATTTACGGGACGCTGCTCTGAGAGTGAATTTGGGCCTTCTGTAATATGTGAAGTGTGGTTTC  
 TTTTCAAACCTTATATGGCCCTGCATGTGACTGCTAGTTTTGGCTTTTAAATAAAGTCATGTAAGATTTAA  
 ATAAAATACTACTGAGATGAAA AAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_026014

**Insert Size:** 1674 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).

**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:** [BC048076](#), [AAH48076](#)

**RefSeq Size:** 2245 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 67177

**UniProt ID:** [Q8R4E9](#)

**Cytogenetics:** 8 E1

**Gene Summary:** Required for both DNA replication and mitosis. DNA replication licensing factor, required for pre-replication complex assembly. Cooperates with CDC6 and the origin recognition complex (ORC) during G1 phase of the cell cycle to promote the loading of the mini-chromosome maintenance (MCM) complex onto DNA to generate pre-replication complexes (pre-RC). Required also for mitosis by promoting stable kinetochore-microtubule attachments (By similarity). Potential oncogene (PubMed:11850834).[UniProtKB/Swiss-Prot Function]