

## Product datasheet for **MR208824**

### **Cdt1 (NM\_026014) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdt1 (NM_026014) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdt1
Synonyms:	2610318F11Rik; AW545653; C76791; Ris2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR208824 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCAAAGTCGTGTTACCGATTCTATGCGTGCCGTCGCCCTGGCCCTTACGACTCCGCGGGCCAAGT  
 CGATCTGTCTACCCCGAGCCCTGGTGGCTCGTGGCTCCTGCGTTCACCCGAGCAGCAGCCGCAAGCG  
 CGCCCGGCCCCAGCCGAACCCGGGAGTGACCAGCCCGCGCCGCTCGCGCGCCGGAGTTACGGCTGCCT  
 GGATTGGACTCCTGCCCCAGTTCTCTGCCTGAGCCAGTCCCCAGCTGAGCCAGCCCTCCAGCTGACC  
 CTAGCCCTCCAGCTGACCCTGGCTCCCCGTTTGGCCATCCCCCGTCAAGCGAACAAAGAGTACAAGTGT  
 TTATGTTGGTCAACAGCCGGCAAGATCCCTCAGAGGACTCCGCTCTGAGCTCCAGTCTGCCTGAGG  
 CGGGCACGAAGTTGGGAGCCAGGCACGGCCCTGAGAGCCGAGTCCAAGAGAATGCTGTGGAGCCTA  
 GTACCCAGATGCCAAGGTGCCACAGAGCAACCATGTGTGAGAAAGCTCCTGCCTACCAGCGCTTCCA  
 TGCTCTGGCTCAGCCTGGTCTCCAGGCCCTGTCTACCCTACAAGTATCAGGTGCTAGTTGAGATGTT  
 CGCAGCATGGACACCATTTGTGAGCATGCTCCACAATCGCTCTGAGACTGTGACCTTTGCCAAAGTCAAGC  
 AAGGTGTTCAGGAGATGATGCGCAAGCGCTTTGAAGAGCGCAATGTGGCCAGATCAAAAACCGTGTATCC  
 CACGTCGATCGCTTCCGCCAGGAGTGCAATGTCCCCACCTTCAAGGACAGCATCAAGAGATCTGATTAC  
 CAGCTCACCATCGAGCCCTTGTGGGCCAGGAGGCTGGCGGTGCCACCCAGCTCACAGCCAGTGCCTCC  
 TGCAGCGCCGGCAAGTCTTCCGGCAGAACCTGGTGAACGTGTCAAGGAACAGCACAAAGTCTTCTCTGGC  
 TTAAGTGAACCCCCCATGGCGGTGCCGACGACAGCTGACCCGCTGGCATCCGCGCTTCAATGTGGAC  
 GAGGTGCCTGACATTGAGCCAGCTGAAGTGCACCAAGATGGAGAAGGCCCTGAGCAACCTGGCCCTGCG  
 CTCGGCTGAGCCCGGTAGCCCTGGGACCTCTACTCCACCACTCCCGGCCACTCCGCGCAGCCACCCACCT  
 GCTGCCTCTCCGAGCGCCCTGAAGGGTGTGTCCCAAGCACTGCTAGAGCGGATAAGGGCCAAGGAGGTCC  
 AGAAGCAGCTGGCAAGGATGACACGGTGCSCCGAGCAGGAGCTTCCGCTGCAGCGGTTAGAGCGTGTCC  
 AGAGCTGGCCCGCTGCTGCGCAATGTCTTGTGTCTGAGCGGAAGCCGGCACTCACTATGGAGGTGGT  
 TGTGCAAGGATGGTGGACAGTTGCCAACTGCTCTGAGTCCAGGGGAGATGGAGAAACATCTGGTGTCC  
 TGGCAGAGTTGCTGCCGACTGGCTCAGCCTGCATCGCATCCGCACGGATACCTACGTCAAGCTGGACAA  
 GGCTGTTGACCTGGCTGGCTCACTGCGAGGCTGGCCACCACGTCACGCGGAGGGGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208824 protein sequence  
 Red=Cloning site Green=Tags(s)

MAQSRVTDYACRRPGLTTPRAKSIICLTPSPGGLVAPAFTRSSSRKRARPPAEPGSDQPAPLARRRLRLP  
 GLDSCPSSLPEPSSPAEPSPPADPSPADPGSPVCPSPVKRTKSTTVYVGQPGKIPSEDSVSELQSLR  
 RARKLGAQARALRARVQENAVEPSTPDAKVPTQPCVEKAPAYQRFHALAQPLGLVLPYKYQVLVEMF  
 RSMDTIVSMLHNRSETVTFKVKQGVQEMMRKRFEERNVQIKTVYPTSYRFRQECNVPTFKDSIKRSDY  
 QLTIEPLLQGEAGGATQLTATCLLQRRQVFRQNLVERVKEQHKVFLASLNPPMAVPPDQLTRWHPRFNVD  
 EVPDIEPAELPQPPVTEKLTTAQEVLARARSLMTPKMEKALSNLALRSAEPGSPGTSTPPLPATPPATPP  
 AASPSALKGVSQALLERIRAKEVQKQLARMTRCPEQELRLQRLERLPELARVLRNVFVSRKPALTMEVV  
 CARMVDSQALSPGEMEKHLVLLAELLPDWLSLHRIRTDITYVKLDKAVDLAAGL TARLAHHVHAAGL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

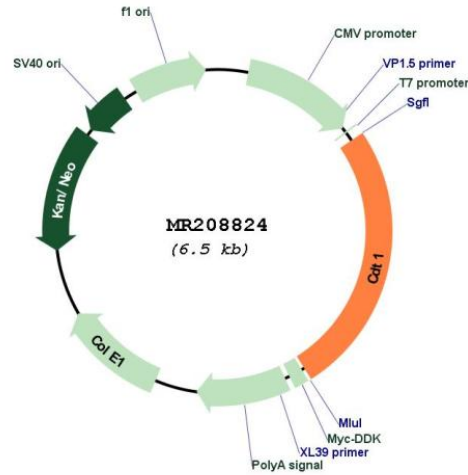
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_026014
<b>ORF Size:</b>	1674 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_026014.3</a> , <a href="#">NP_080290.3</a>
<b>RefSeq Size:</b>	2245 bp
<b>RefSeq ORF:</b>	1674 bp
<b>Locus ID:</b>	67177
<b>UniProt ID:</b>	<a href="#">Q8R4E9</a>
<b>Cytogenetics:</b>	8 E1
<b>MW:</b>	61.5 kDa
<b>Gene Summary:</b>	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]