

Product datasheet for **RG201657**

CDT1 (NM_030928) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDT1 (NM_030928) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDT1
Synonyms:	DUP; RIS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201657 representing NM_030928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCAGCGCCGCGTCAACGACTTCTTCGCGCGCCCGCCCGCCCGGGCCCCCGCATCGCGCCGCCA
 AGCTGGCCTGCCGCACCCAGCCCGCCAGGCCCGCACTCCGCGCCCGGCCTCCGCTACCACTGGCAG
 CCGCAAGCGCGCCCGCCCGCCCGCCCGCCCGGACGCGACAGGCCAGGCCACCGGCCCGCAGGAGACTG
 CGGCTGTGCGTGGACGAGGTTTCCAGCCCACTACCCCGAGGCCCGACACATCCAGCCTGCCCTTCTC
 CGGGCCAGAAGATAAAGAAATCCACCCCGCAGCAGGTGACCGCCCGCCTGACATCCGCGCAGGACCA
 GGACACCATCTCTGAGCTTGCCTGCAACGGGCCGGGAGTGGGGCAAGAGTCCGGGCGCTG
 AAGGCCAGTGGCAGGATGCTGGGGAGTCTGCACCCAGAGGCCGAGGGCCGCCCTGAGGAGCCATGTG
 GCGAGAAGGCGCCCGCTACCAGCGCTTCCATGCCCTGGCCAGCCCGGCCTGCCGGACTCGTGTCTGCC
 CTACAAGTACCAGGTGCTGGCGGAGATGTTCCGACGATGGACACCATCGTGGGCATGCTCCACAACCGC
 TCCGAGACGCCACCTTTGCCAAGGTCCAGCGGGCGTCCAGGACATGATGCGTAGGCGTTTTGGAGAGC
 GCAATGTTGGCCAGATCAAACCGTGTACCCGGCCTCCTACCGCTTCCGCCAGGAGCGCAGTGTCCCCAC
 CTTCAAGGATGGCACCAGGAGGTGAGTACCAGCTCACCATCGAGCCACTGCTGGAGCAGGAGGCTGAC
 GGAGCAGCCCCCAGCTCACGGCCTCGCGCCTCCTGCAGCGACGGCAGATCTTACGCCAGAAGCTGGTGG
 AGCACGTCAAGGAGCACCACAAGGCCTTCTGGCCTCCCTGAGCCCCGCCATGGTGGTCCCGGAGGACCA
 GCTGACCCGCTGGCACCAGCGCTTCAACGTGGATGAAGTACCCGACATCGAGCCGGCCGCGCTGCCCCAG
 CCACCCGCCACGGAAGCTCACCAGTCTCAGGAGGTGCTGGCCGGGCCCGCAACCTGATTTACCCCA
 GGATGGAGAAGGCCTTGAGTCAATTGGCCCTGCGCTCTGCTGCGCCAGCAGCCCGGGTCTCCAGGCC
 AGCATGCCGGCTACCCACAGCCACCCCGCCTGCAGCCTCTCCAGTGTCTGAAGGGGGTGTCCAG
 GATCTGCTGGAGCGGATCCGAGCCAAGGAGGCACAGAAGCAGCTGGCACAGATGACGCGGTGCCCGGAGC
 AGGAGCAGCGGCTGCAGCGCTTAGAACGGCTGCCTGAGCTGGCCCGCTGCTGCGGAGCGCTTTTGTGTC
 CGAACGCAAGCCTGCGCTCAGCATGGAGGTGGCCTGTGCCAGGATGGTGGGCAGCTGTTGTACTATCATG
 AGCCCTGGGAAATGGAGAAGCAGCTGCTGCTCCTCTCCGAGCTGCTGCCGACTGGCTCAGCCTCCACC
 GCATCCGACCGACACCTACGTCAAGCTGGACAAGGCCGCGGACCTCGCCACATCACTGCACGCTGGC
 CCACCAGACAGTCTGAGGAGGGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201657 representing NM_030928
 Red=Cloning site Green=Tags(s)

MEQRRVTDFARRRPGPPRIAPPKLACRTPSPARPALRAPASATSGSRKRARPPAAPGRDQARPPARRRL
 RLSVDEVSSPSTPEAPDIPACPSPGQKIKKSTPAAGQPPHLTSAQDQDTISELASCLRARELGARVRAL
 KASAQDAGESCTPEAEGRPEEPCGEKAPAYQRFHALAQPLPGLVLPYKYQVLAEMFRSMDTIVGMLHNR
 SETPTFAKVQRGVQDMMRRRFEERNVQIKTVYPASYRFRQERSVPTFKDGTTRSDYQLTIEPLLEQEAD
 GAAPQLTASRLLRQRQIFSQKLVEHVKEHHKAFSLSPAMVVPEDQLTRWHPRFNVDVDPDIEPAALPQ
 PPATEKLTTAQEVLARARNLISPRMEKALSQALRSAAPSSPGSPRPALPATPPATPPAASPSALKGVSQ
 DLLERIRAKEAQQLAQMTRCPEQEQLRQLERLPELARVLRVSVSERKPALSMEVACARMVGSCTIM
 SPGEMEKHLLLLSELLPDWLSLHRIRTDYVVKLDKAADLAHITARLAHQTRAEGL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_030928

ORF Size: 1638 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_030928.2](#), [NP_112190.1](#)

RefSeq Size: 2742 bp

RefSeq ORF: 1641 bp

Locus ID: 81620

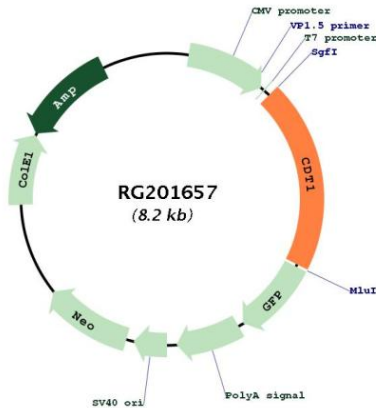
UniProt ID: [Q9H211](#)

Cytogenetics: 16q24.3

Protein Families: Stem cell - Pluripotency

Gene Summary: The protein encoded by this gene is involved in the formation of the pre-replication complex that is necessary for DNA replication. The encoded protein can bind geminin, which prevents replication and may function to prevent this protein from initiating replication at inappropriate origins. Phosphorylation of this protein by cyclin A-dependent kinases results in degradation of the protein. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RG201657