

Product datasheet for **MC226837**

Ccnd3 (NM_001081635) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ccnd3 (NM_001081635) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ccnd3
Synonyms: 9230106B05Rik; AA682053; AL024085; AW146355; C78795
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226837 representing NM_001081635
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGCTGCTGTGTTGCGAGGGCACCCGGCACGCGCCCCGGGCCGGCCGACCCGCGGCTGCTTGGGG
ACCAGCGTGTCTGCAGAGTTTACTCCGCCTGGAGGAGCGCTACGTGCCGCGAGCCTCCTACTTCCAGTG
CGTGCAAAGGAGATCAAGCCGCACATGCGGAAGATGCTGGCATACTGGATGCTGGAGGTGTGTGAGGAG
CAGCGCTGCGAGGAGGATGTCTTCCCTCTGGCTATGAACTACCTGGATCGCTACCTGTCTCGCTCCCA
CCCGAAAGGCGCAATTGCAGCTTCTAGGTACCGTCTGCCTGTTGCTGGCCTCCAAGCTGCGCGAAACCAC
GCCCTGACTATTGAGAAGCTTTGCATCTATACGGACCAGGCTGTGGCTCCATGGCAGTTGCGGGAGTGG
GAGGTGCTGGTCTGGGGAAGCTCAAGTGGGACCTGGCTGCCGTGATTGCGCACGACTTCTGGCCTTGA
TTCTGCACCGCTGTCTCTGCCAGTGACCGGCAGGCTTTGGTCAAAAAGCATGCCAGACCTTTTGGC
CCTCTGTGCTACAGATTACCTTTGCGATGTATCCTCCATCCATGATCGCCACAGGCAGCATTGGGGCA
GCCGTGCTAGGCCTAGGCGCCTGCTCTATGTCTGCGGATGAGCTCACAGAGTTGCTGGCCGGGATCACAG
GCACTGAAGTGGACTGCCTGCGAGCCTGCCAGGAACAGATCGAAGCTGCCCTCAGGAGAGCCTCAGGGA
AGCTGCTCAGACAGCCCCAGCCAGTGCCTCAAGCCCGGGGCTCTAGCAGCCAGGGGCCAGTCCAG
ACCAGCACTCCCACAGATGTCACAGCCATTACCTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081635
Insert Size: 879 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001081635.1</u> , <u>NP_001075104.1</u>
RefSeq Size:	2086 bp
RefSeq ORF:	879 bp
Locus ID:	12445
UniProt ID:	<u>P30282</u>
Cytogenetics:	17 23.37 cM
Gene Summary:	<p>Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate splice site in the 5' UTR, compared to variant 3. Variant 2 encodes the same protein as variant 3.</p>