

Product datasheet for **RR215416**

Ccnd2 (NM_022267) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccnd2 (NM_022267) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccnd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR215416 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGCTGTGCTGTGAGGTGGACCCGGTCCGCAGGGCCGTGCCGGACCGCAACCTGCTGGAAGACC
GCGTCCTGCAGAACCTGTTGACTATCGAGGAGCGCTACCTCCCGCAATGTTCTATTTCAAGTGCCTGCA
GAAGGACATCCAGCCGTACATGCGCAGGATGGTGGCTACCTGGATGCTAGAGGTCTGTGAGGAACAGAAG
TGTGAAGAAGAGGTCTTTCCTCTGGCCATGAATTACCTGGACCGTTTCTGGCTGGAGTCCCGACTCCTA
AGACCCATCTTCAGCTCCTGGCGCTGTGTGCATGTTCTAGCTTCCAAGCTGAAAGAGACCATCCCGCT
GACTGCGGAAAAGCTGTGTATTTACACCGACAACCTCTGTGAAGCCCGAGGAGCTGCTGGAGTGGGAACTG
GTAGTGTGGGTAAGCTGAAGTGAACCTGGCCGAGTCACCCCTCACGACTTCATTGAGCACATCCTTC
GCAAGCTGCCCCAGAAAAGGAGAAGCTGTCCCTGATCCGCAAGCATGCGCAGACCTTCATCGCTCTGTG
TGCTACCGACTTCAAGTTTGCCATGTACCCGCCATCGATGATCGCAACTGGAAGCGTGGGAGCAGCCATC
TGCGGGCTTCAGCAGGACGAGGAAGTGAATGCACTCACGTGCGATGCCCTGACGGAGCTGCTGACCAAGA
TCACCACACCGATGTGGATTGTCTCAAAGCCTGCCAGGAGCAAATCGAGGCTGTGCTGCTTAACAGCCT
TCAGCAGTCCGTCAAGAGCAGACAACGGCTCCAAGTCTGTGGAAGATCCGGACCAAGCCACCACCCCT
ACAGACGTGCGGGATGTTGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215416 protein sequence
 Red=Cloning site Green=Tags(s)

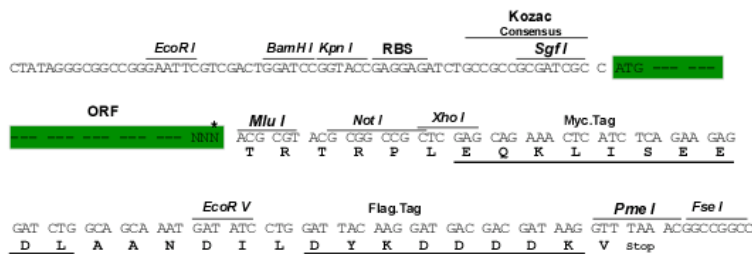
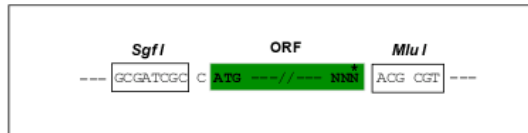
MELLCCCEVDPVRRRAVPDRNLLLEDRLVQLNLLTIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLLEVCEEQK
 CEEEVFPLAMNYLDRFLAGVPTPKTHLQLLGAVCMFLASKLKETIPLTAEKLCIYTDNSVKPQELLEWEL
 VVLGKLGKLNLAAVTPHDFIEHILRKLPPQKKEKLSLIRKHAQTFIALCATDFKFAMYPPSMIATGSGVAAI
 CGLQQDEEVNAL TCDAL TELLTKITHTD VDCLKACQE QIEAVLLNSLQQFRQE QHNGSKSVEDPDQATTP
 TDVDRVDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022267

ORF Size: 864 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_022267.1](#), [NP_071603.1](#)

RefSeq Size: 1415 bp

RefSeq ORF: 867 bp

Locus ID: 64033

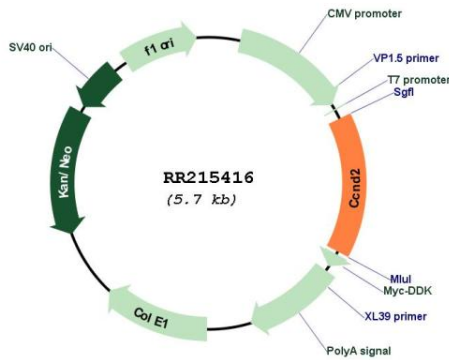
UniProt ID: [Q04827](#)

Cytogenetics: 4q42

MW: 32.8 kDa

Gene Summary: plays a role in the G1 to S phase transition; involved in regulation of cell proliferation [RGD, Feb 2006]

Product images:



Circular map for RR215416