

OriGene Technologies, Inc.

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Product datasheet for RC202437

Cyclin D3 (CCND3) (NM_001760) Human Tagged ORF Clone

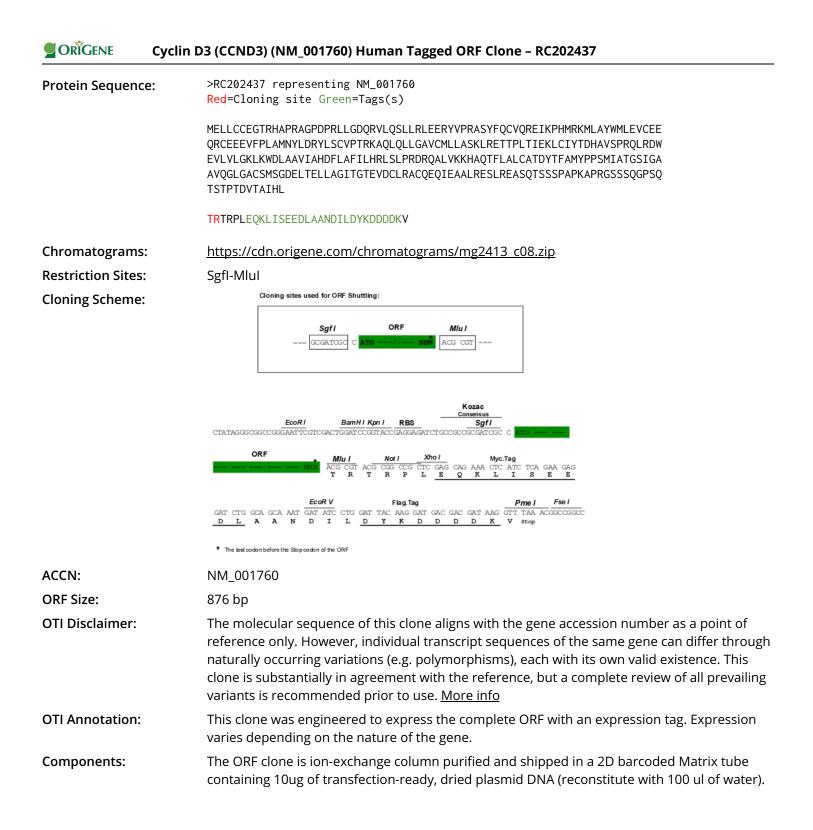
Product data:

| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | Cyclin D3 (CCND3) (NM_001760) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cyclin D3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RC202437 representing NM_001760 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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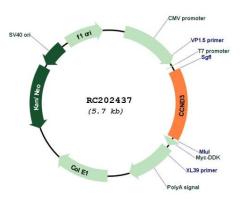
Cyclin D3 (CCND3) (NM_001760) Human Tagged ORF Clone – RC202437

| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 001760.5</u> |
| RefSeq Size: | 2095 bp |
| RefSeq ORF: | 879 bp |
| Locus ID: | 896 |
| UniProt ID: | <u>P30281</u> |
| Cytogenetics: | 6p21.1 |
| Domains: | cyclin_C, CYCLIN, cyclin |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Cell cycle, Focal adhesion, Jak-STAT signaling pathway, p53 signaling pathway, Wnt signaling pathway |
| MW: | 32.3 kDa |
| Gene Summary: | The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008] |

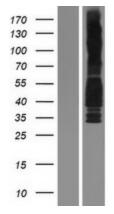
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Product images:



Circular map for RC202437



Western blot validation of overexpression lysate (Cat# [LY400666]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202437 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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