

Product datasheet for **SC119037**

Cyclin D3 (CCND3) (NM_001760) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin D3 (CCND3) (NM_001760) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin D3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001760, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGCTGTGTTGCGAAGGCACCCGGCACGCGCCCCGGGCCGGCCGGACCCGCGGCTGCTGGGGG
ACCAGCGTGTCTGCAGAGCCTGCTCCGCCTGGAGGAGCGCTACGTACCCCGCGCCTCTACTTCCAGTG
CGTGCAGCGGGGAGATCAAGCCGCACATGCGGAAGATGCTGGCTTACTGGATGCTGGAGGTATGTGAGGAG
CAGCGCTGTGAGGAGGAAGTCTTCCCCCTGGCCATGAACTACCTGGATCGCTACCTGTCTTGCCTCCCA
CCCGAAAGGCGCAGTTGCAGCTCCTGGGTGCGGTCTGCATGCTGCTGGCCTCCAAGCTGCGCGAGACCAC
GCCCCTGACCATCGAAAACTGTGCATCTACACCGACCACGCTGTCTCTCCCGCCAGTTGCGGGACTGG
GAGGTGCTGGTCTAGGGAAGCTCAAGTGGGACCTGGCTGCTGTGATTGCACATGATTTCTGGCCTTCA
TTCTGCACCGGCTCTCTGCCCCGTGACCGACAGGCCTTGGTCAAAAAGCATGCCAGACCTTTTTGGC
CCTCTGTGCTACAGATTACCTTTGCCATGTACCCGCCATCCATGATCGCCACGGGCAGCATTGGGGCT
GCAGTGAAGGCCTGGGTGCCTGCTCCATGTCCGGGGATGAGCTCACAGAGCTGCTGGCAGGGATCACTG
GCACTGAAGTGGACTGCCTGCGGGCCTGTGAGGAGCAGATCGAAGCTGCACTCAGGGAGAGCCTCAGGGA
AGCCTCTCAGACCAGCTCCAGCCCAGCGCCAAAGCCCCCGGGGCTCCAGCAGCCAAGGGCCAGCCAG
ACCAGCACTCCTACAGATGTCACAGCCATACACCTGTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001760 unedited
 CGCGTTTCANATTTTGTNATACGACTCACTATAGGGNCCGGCCGCAATTCGGCACGAGG
 GGGAAAGCGGCGCGCGCGGGCGGGCGGGCTGGGGATCCGCCGCGCAGTGCCAGCGC
 CAGCGCCAGACCCGCGCCCCGCGCTCTCCGGCCGTCGCTGCCTTTGGGACTCGCGAGCC
 CGCACTCCCGCCCTGCCTGTTTCGCTGCCGAGTATGGAGCTGTGTGTTGCGAAGGCACC
 CGGCACGCGCCCCGGGCCGGCCGACCCGCGGCTGCTGGGGACCAGCGTGTCTGCAG
 AGCTGCTCCGCTGGAGGAGCGCTACGTACCCGCGCCTCCTACTTCCAGTGCGTGCAG
 CGGGAGATCAAGCCGCACATGCGGAAGATGCTGGCTTACTGGATGCTGGAGGTATGTGAG
 GAGCAGCGCTGTGAGGAGAAAGTCTTCCCCTGGCCATGAACTACCTGGATCGCTACCTG
 TCTTGGCTCCCCACCCGAAAGGCGCAGTTGACAGCTCCTGGGTGCGGTCTGCATGCTGCTG
 GCCTCAAAGTGCAGGAGACCACGCCCTGACCATCGAAAACTGTGCATCTACACCGAC
 CACGCTGTCTCTCCCGCCAGTTGCGGGACTGGGAGGTGCTGGTCTAGGGAAGCTCAAG
 TGGGACCTGGCTGCTGTATTGCACATGATTTCTGGCCTTATTCTGCACCGGCTCTCT
 CTGCCCGTGACCGACAGGCCTTGGTCAAAAAGCATGCCAGACCTTTNTGGCCCTGTG
 GCTACAGATTACCTTTGCCATGTACCCGCCATCCATGATCGCCACGGGCAGCATTGGG
 GGCTGCAGTGCAAGGCCTGGGTGCTCCATGTCCGGNGNATGAGCTCACANAGCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001760 unedited
 ATGGACCGCGNGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTACAAATCA
 TCTTTATTACAGTAGGATGATGGTCTGGGCCACCAGCCTAAACCTTGCAGCCTTAGGAA
 AGACCTGTGTCAACAGGGCTTGCCTCCCTCTCTAGACAGGGGCTCAGCCACCTCCAGGGC
 ATCCCTGCTGCATTTTCCCTGCTGGAGGATGGGGCAGAGGGACAATGGGAGAGGAGGGCA
 TGACCCACCCAGGCTATAGCAGCTCCTTGGCCACAAAGATCCTTTTCCAGTAGCAGA
 AGGGAGGAAAACAGCAACCACCAGGGTTACCACCACTTGTGGGATGGCCAGGACCCATT
 AGGTCCTCTTAAAGTTGTGCTCAAAGCAATTAATAAATTAATGAGCCTTCAGCAGCAA
 AGCTGTCAATCACACAGGAGAAGCTGAGCAGAAAAGCAAAGGAAATTTATAGCTT
 CTCTGGTGAGGCCTAGGCCCTCCCTCTAGGAGCAGCTGTGAGCAGGACTACATAGGG
 GCCTCAAAGTACTGAGAGGAGCCATCTAGACTATTCCCCTCATATGTGTCTATCATGC
 ATTAATTTTAGAGGGACCCCAATCCAAATGCAATAACCTTAGAAGGGACAACACCTTTA
 GAAGGCACTAGAGCATTNTGGCAGTTGAAACATGAGAGCCCCAGGGGTGGNGGGGGGGC
 GTCAAAGGAATGCTGTGTATGTATCCAATTCTGCCATCAGCCTGGCCACCCANCTAN
 AGTGGGAAAAGCGCTNGCTGTCAAATGCAGGGAGGAAGAGCTGACTANCCACCGAATGCA
 GACATGCTGGCCGGGCCCTANTGCCACTGCGGGGAGGGTAGACCCATCTGGGGCTTGG
 AGGC

Restriction Sites:

NotI-NotI

ACCN:

NM_001760

Insert Size:

2240 bp

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).

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:	NM_001760.2 , NP_001751.1
RefSeq Size:	2095 bp
RefSeq ORF:	879 bp
Locus ID:	896
UniProt ID:	P30281
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) encodes the largest isoform (2).</p>