CCND1 cDNA Clone – Cyclin D1 (Human)

PRODUCT OVERVIEW

Product Name	CCND1, cDNA Clone
Full Product Name	CCND1 cDNA Clone
Product Gene Name	CCND1 cdna clone
Sequence	atggaacacc agctcctgtg ctgcgaagtg gaaaccatcc gccgcgcgta ccccgatgcc aacctcctca acgaccgggt gctgcgggcc atgctgaagg cggaggagac ctgcgcgccc tcggtgtcct acttcaaatg tgtgcagaag gaggtcctgc cgtccatgcg gaagatcgtc gccacctgga tgctggaggt ctgcgaggaa cagaagtgcg aggaggaggt cttcccgctg gccatgaact acctggaccg cttcctgtcg ctggagcccg tgaaaaagag ccgcctgcag ctgctggggg ccacttgcat gttcgtggcc tctaagatga aggagaccat ccccctgacg gccgagaagc tgtgcatcta caccgacaac tccatccggc ccgaggagct gctgcaaatg gagctgctcc tggtgaacaa gctcaagtgg aacctggccg caatgacccc gcacgatttc attgaacact tcctctccaa aatgccagag gcggaggaga acaaacagat catccgcaaa cacgcgcaga ccttcgttgc cctctgtgcc acagatgtga agttcatttc caatccgccc tccatggtgg cagcggggag cgtggtggcc gcagtgcaag gcctgaacct gaggagcccc aacaacttcc tgtcctacta ccgcctcaca cgcttcctct ccagagtgat caagtgtgac ccagactgcc tccgggcctg ccaggagcag atcgaagccc tgctggagtc aagcctgcgc caggcccagc agaacatgga ccccaaggcc gccgaggagg aggaagagga ggaggaggag gtggacctgg cttgcacacc caccgacgtg cgggacgtgg acatctga
Molecular Weight	33,729 Da
OMIM	168461
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CCND1 cdna clone	MBS1267602 is a cDNA clone targeting CCND1.
Other Notes	Small volumes of CCND1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCND1. It may not necessarily be applicable to this product.

NCBI GI #	33991562
NCBI GeneID	595
NCBI Accession #	BC023620
UniProt Secondary Accession #	Q6LEF0
UniProt Related Accession #	P24385
NCBI Official Full Name	Homo sapiens cyclin D1, mRNA
NCBI Official Synonym Full Names	cyclin D1
NCBI Official Symbol	CCND1
NCBI Official Synonym Symbols	BCL1; PRAD1; U21B31; D11S287E
UniProt Protein Name	G1/S-specific cyclin-D1
UniProt Synonym Protein Names	B-cell lymphoma 1 protein; BCL-1; BCL-1 oncogene; PRAD1 oncogene

Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCND1
UniProt Synonym Gene Names	BCL1; PRAD1; BCL-1
UniProt Entry Name	CCND1_HUMAN
NCBI Protein Information	G1/S-specific cyclin-D1
NCBI Summary for CCND1	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout 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 tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis. [provided by RefSeq, Jul 2008]
UniProt Comments for CCND1	CCND1: a member of 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. 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 tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Protein type: Cell cycle regulation; Oncoprotein; Nuclear receptor co-regulator; Activator Chromosomal Location of Human Ortholog: 11q13 Cellular Component: cyclin-dependent protein kinase holoenzyme complex; cytosol; intracellular; nucleoplasm; nucleus; transcriptional repressor complex Molecular Function: enzyme binding; histone deacetylase binding; protein binding; protein kinase binding; transcription corepressor activity; transcription factor binding Biological Process: G1 DNA damage checkpoint; G1/S transition of mitotic cell cycle; negative regulation of transcription from RNA polymerase II promoter; positive regulation of cell cycle; positive regulation of cyclin-dependent protein kinase activity; positive regulation of protein amino acid phosphorylation; response to DNA damage stimulus; response to drug Disease: Myeloma, Multiple; Von Hippel-lindau Syndrome
Research Articles on CCND1	**1.** SOX11 is useful in differentiating cyclin D1-positive diffuse large B-cell lymphoma from mantle cell lymphoma
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