

Product datasheet for MG226906

Ccnd1 (NM_007631) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | Ccnd1 (NM_007631) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ccnd1 |
| Synonyms: | Al327039; bcl-1; cD1; CycD1; Cyl-1; PRAD1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG226906 representing NM_007631 Red=Cloning site Blue=ORF Green=Tags(s) |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

| | d1 (NM_007631) Mouse Tagged ORF Clone – MG226906 |
|---------------------------|---|
| Protein Sequence: | >MG226906 representing NM_007631 Red=Cloning site Green=Tags(s) |
| | MEHQLLCCEVETIRRAYPDTNLLNDRVLRAMLKTEETCAPSVSYFKCVQKEIVPSMRKIVATWMLEVCEE QKCEEEVFPLAMNYLDRFLSLEPLKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQM ELLLVNKLKWNLAAMTPHDFIEHFLSKMPEADENKQTIRKHAQTFVALCATDVKFISNPPSMVAAGSVVA AMQGLNLGSPNNFLSCYRTTHFLSRVIKCDPDCLRACQEQIEALLESSLRQAQQNVDPKATEEEGEVEEE AGLACTPTDVRDVDI |
| | TRTRPLE - GFP Tag - V |
| Chromatograms: | https://cdn.origene.com/chromatograms/ja1798_e02.zip |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | Cloning sites used for ORF Shuttling: |
| | Sgf I ORF Miu I GCGATCGC C ATG MIN ACG CGT |
| | Kozac EcoR I BamH I Kpn I RBS Sgf I Asc I CTATAGGGCGGGCGGGAATTCGTCGGACTGGGACCGGAGGGGGGGG |
| | GAA GAA AGA GTT TAA ACGGCCGGCGGGGGGGGGG |

| ACCN: | |
|-----------------|--|
| ORF Size: | |
| OTI Disclaimer: | |

ו// __

NM_007631

885 bp

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

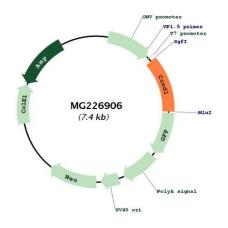
| ORIGENE Ccnd1 | (NM_007631) Mouse Tagged ORF Clone – MG226906 |
|------------------------|---|
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| Components: | The ORF clone is ion-exchange column 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: | 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 007631.1</u> |
| RefSeq Size: | 3796 bp |
| RefSeq ORF: | 888 bp |
| Locus ID: | 12443 |
| UniProt ID: | <u>P25322</u> |
| Cytogenetics: | 7 88.92 cM |
| Gene Summary: | Regulatory component of the cyclin D1-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 mitogenenic 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 D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (By similarity).[UniProtKB/Swiss-Prot |

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Function]



Product images:



Circular map for MG226906

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US