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Product datasheet for SC106758

Cyclin B1 (CCNB1) (NM_031966) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin B1 (CCNB1) (NM_031966) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin B1
Synonyms:	CCNB
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC106758 sequence for NM_031966 edited (data generated by NextGen Sequencing)

ATGGCGCTCCGAGTCACCAGGAACTCGAAAATTAATGCTGAAAATAAGGCGAAGATCAAC
ATGGCAGGCGCAAAGCGCGTTCCTACGGCCCCTGCTGCAACCTCCAAGCCCGGACTGAGG
CCAAGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAACAACTGCAGGCCAAAATG
CCTATGAAGAAGGAAGCAAAACCTTCAGCTACTGGAAAAGTCATTGATAAAAAACTACCA
AAACCTCTTGAAAAGGTACCTATGCTGGTGCCAGTGCCAGTGTCTGAGCCAGTGCCAGAG
CCAGAACCTGAGCCAGAACCTGAGCCTGTTAAAGAAGAAAAACTTTCGCCTGAGCCTATT
TTGGTTGATACTGCCTCTCCAAGCCCAATGGAAACATCTGGATGTGCCCCTGCAGAAGAA
GACCTGTGTCAGGCTTTCTCTGATGTAATTCTTGCAGTAAATGATGTGGATGCAGAAGAT
GGAGCTGATCCAAACCTTTGTAGTGAATATGTGAAAGATATTTATGCTTATCTGAGACAA
CTTGAGGAAGAGCAAGCAGTCAGACCAAAATACCTACTGGGTCGGGAAGTCACTGGAAAC
ATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGAAATTCAGGTTGTTGCAG
GAGACCATGTACATGACTGTCTCCATTATTGATCGGTTCATGCAGAATAATTGTGTGCCC
AAGAAGATGCTGCAGCTGGTTGGTGTCACTGCCATGTTTATTGCAAGCAAATATGAAGAA
ATGTACCCTCCAGAAATTGGTGACTTTGCTTTTGTGACTGACAACACTTATACTAAGCAC
CAAATCAGACAGATGGAAATGAAGATTCTAAGAGCTTTAAACTTTGGTCTGGGTCGGCCT
CTACCTTTGCACTTCCTTCGGAGAGCATCTAAGATTGGAGAGGTTGATGTCGAGCAACAT
ACTTTGGCCAAATACCTGATGGAACTAACTATGTTGGACTATGACATGGTGCACTTTCCT
CCTTCTCAAATTGCAGCAGGAGCTTTTTGCTTAGCACTGAAAATTCTGGATAATGGTGAA
TGGACACCAACTCTACAACATTACCTGTCATATACTGAAGAATCTCTTCTTCCAGTTATG
CAGCACCTGGCTAAGAATGTAGTCATGGTAAATCAAGGACTTACAAAGCACATGACTGTC
AAGAACAAGTATGCCACATCGAAGCATGCTAAGATCAGCACTCTACCACAGCTGAATTCT
GCACTAGTTCAAGATTTAGCCAAGGCTGTGGCAAAGGTGTAA

Clone variation with respect to NM_031966.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031966 unedited
CAGATTTGTATACGACNACTATAGGCGGCACGCGAATTCGCACGAGTTGGTTTCTGCTGG
GTGTAAGTCCTTGGCTGGTCGGGCCTCCGGTGTTCTGCTTCTCCCCGCTGAGCTGCTGCC
TGGTGAATAGGAAGCCATGGCGCTCCGAGTCACCAGGAACTCGAAAATTAATGCCTGAAA
ATAAGGCGAAGATCAACATGGCAGGCGCAAAGCGCGTTCCTACGGCCCCTGCTGCAACCT
CCAAGCCCGGACTGAGGCCAAGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAAC
AACTGCAGGCCAAAATGCCTATGAAGAAAGAAGCAAAACCTTCAGCTACTGGAAAAGTCA
TTGATAAAAAACTACCAAAACCTCTTGAAAAGGTACCTATGCTGGTGCCAGTGCCAGTGT
CTGATCCAGTGCCAGATCCAGAACCTGAGCCAGAACCTGAGCCTGTTAAAGAAGAAAAAC
TTTCGCCTGAGCCTATTTTGGTTGATACTGCCTCTCCAAGCCCAATGGAAACATCTGGAT
GTGCCCCTGCAGAAGAAGACCTGTGTCAAGCTTTCTCTGATGTAATTCTTGCAGTAAATG
ATGTGGATGCAGAAGATGGAGCTGATCCAAACCTTTGTAGAGAATATGTGAAAGATATTT
ATGCTTATCTGAGACAACTTGAGGAAGATCAAGCAGTCAGACCAAAATACCTACTGGGTC
GGGAAGTCACTGGATACATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGA
AATTCAAGTTGTTGCAAGAGACCATGTACATGACTGTCTNCTTATAGATCGGTTCATGCA
GAATAATTGTGTGCCCATAATAGCTGCAGCTGGNTANAGTCACTGCATGTTTATTGCATG
CAATATGAGATATGTCCCTNCANAATAGAGACTTGCTTTTGTGACGACACACTGTACTAT
GCACAATCAGAAGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031966 unedited
NGGGGAATTACTGTGNNACCGCGGCCGCTTNCTAGNGATCGGTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTCACAGATGGCACATGGGGCCAATTTTATTTGGAA
ATATAGTACTCCAACTCAAGTTTACAAGTTACACCTTTGCCACAGCCTTGGCTAAATCTT
GAACTAGTGCAAAATTCAGCTGGGGTAGAGGGCTGATCTTAGCATGCTTCGATGGGGCAT
ACTTGTTCTTGACAGTCATGTGCTTTGTAAGTCCTTGATTTACCATGACTACATTCTTAG
CCAGGTGCTGCATAACTGGAAAAAAAAATTCTTCAGTATATGACAGGTAATGTTGTAAAG
TTGGTGTCCATTCACCATTATCCAGAATTTTCAGTGCTAAGCAAAAAGCTCCTGCTGCAA
TTTGAGAAGGAGGAAAGTGCACCATGTCATAGTCCAACATAGTTAGTTCCATCAGGTATT
TGGCCAAAGTATGTTGCTCGACATCAACCTCTCCAATCTTAGATGCTCTCCGAAGGAAGT
GCAAAGGTAGAGGCCGACCCAGACCAAAGTTTAAAGCTCTTAGAATCTTCATTTCCATCT
GTCTGATTTGGTGCTTAGTATAAGTGTTGGCAGTCACAAAAGCAAAGTCACCAATTTCTG
GAGGGTACATTTCTTCAATATTGCTTGGCATAAACATGGCAGTGACACCCAACAGCTGCA
GCATCTTTTTGGGCACACAATTATTCTGGATGAACCGATCAATAATGGAGAACAGTCTGT
ACATGGTCTCCTGCAACAACCTGGAATTTCATTTTGACCCTGGCCTAGCCAGTCCATTAA
GATGGCTCTCATGGTTCCAGGGCCTTCCGGACCCAAAGGGATTTTGGCCTGACGG

Restriction Sites: NotI-NotI

ACCN: NM_031966

Insert Size: 1500 bp

OTI Disclaimer: 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 custsupport@origene.com 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. More info

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_031966.2, NP_114172.1

RefSeq Size: 2101 bp

RefSeq ORF: 1302 bp

Locus ID: 891

UniProt ID: P14635

Cytogenetics: 5q13.2

Domains: cyclin_C, CYCLIN, cyclin

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Cell cycle, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated oocyte maturation

Gene Summary: The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product complexes with p34(cdc2) to form the maturation-promoting factor (MPF). The encoded protein is necessary for proper control of the G2/M transition phase of the cell cycle. [provided by RefSeq, Aug 2017]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).