

Product datasheet for **SC117206**

Cyclin B2 (CCNB2) (NM_004701) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin B2 (CCNB2) (NM_004701) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin B2
Synonyms:	HsT17299
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004701, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTGCTCCGACGCCCGACGGTGTCCAGTGATTTGGAGAATATTGACACAGGAGTTAATTCTAAAG
TTAAGAGTCATGTGACTATTAGGCGAACTGTTTTAGAAGAAATTGGAAATAGAGTTACAACCAGAGCAGC
ACAAGTAGCTAAGAAAGCTCAGAACACCAAAGTCCAGTTCACCCACCAAAAACAACAAATGTCAACAAA
CAACTGAAACCTACTGCTTCTGTCAAACAGTACAGATGGAAAAGTTGGCTCAAAGGGTCTTCTCCCA
CACCTGAGGATGTCTCCATGAAGGAAGAGAATCTCTGCCAAGCTTTTTCTGATGCCTTGCTTGCAAAAT
CGAGGACATTGATAACGAAGATTGGGAGAACCCTCAGCTCTGCAGTGACTACGTTAAGGATATCTATCAG
TATCTCAGGCAGCTGGAGGTTTTGCAGTCCATAAACCCACATTTCTTAGATGGAAGAGATATAAATGGAC
GCATGCGTGCCATCCTAGTGGATTGGCTGGTACAAGTCCACTCCAAGTTTAGGCTTCTGCAGGAGACTCT
GTACATGTGCGTTGGCATTATGGATCGATTTTTACAGTTTCAGCCAGTTTCCCGGAAGAAGCTTCAATTA
GTTGGGATTACTGCTCTGCTCTTGGCTTCCAAGTATGAGGAGATGTTTTCTCAAATATTGAAGACTTTG
TTTACATCACAGACAATGCTTATACCAGTTCCTCAAATCCGAGAAATGAAACTCTAATTTTGAAGAATT
GAAATTTGAGTTGGGTCGACCCTTGCCACTACACTTCTTAAGGCGAGCATCAAAGCCGGGGAGGTTGAT
GTTGAACAGCACACTTTAGCCAAGTATTTGATGGAGCTGACTCTCATCGACTATGATATGGTGCATTATC
ATCCTTCTAAGGTAGCAGCAGCTGCTTCTGCTGTCTCAGAAGGTTCTAGGACAAGGAAAATGAACTT
AAAGCAGCAGTATTACACAGGATACACAGAGAATGAAGTATTGGAAGTCATGCAGCACATGGCCAAGAAT
GTGGTGAAAGTAAATGAAAACCTTAACATAAATTCATCGCCATCAAGAATAAGTATGCAAGCAGCAAACCTCC
TGAAGATCAGCATGATCCCTCAGCTGAACTCAAAGCCGTCAAAGACCTTGCCTCCCCACTGATAGGAAG
GTCCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004701 unedited</p> <pre> NGGTGCAAATTTTGAATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGTAC GCTAGTGTCTCCCTTTTCAGTCCGCGTCCCTCCCTGGGCCGGGCTGGCACTCTTGCCCT CCCCGTCCTCATGGCGTGTCCGACGCCGACGGTGTCCAGTGATTTGGAGAATATTG ACACAGGAGTTAATTTCTAAAGTTAAGAGTCATGTACTATTAGGCGAACTGTTTTAGAAG AAATTGGAAATAGAGTTACAACCCAGAGCAGCACAAGTAGCTAAGAAAGCTCAGAACACCA AAGTCCAGTTCAACCCACCAAAACAACAATGTCAACAACAACACTGAAACCTACTGCTT CTGTCAAACCCAGTACAGATGGAAAAGTTGGCTCCAAAGGTCCTTCTCCACACCTGAGG ATGTCTCCATGAAGGAAGAGAATCTCTGCCAAGCTTTTTCTGATGCCTTGCTCTGCAAAA TCGAGGACATTGATAACGAAGATTGGGAGAACCCTCAGCTCTGCAGTGACTACGTTAAGG ATATCTATCAGTATCTCAGGCAGCTGGAGGTTTTGCAGTCCATAAACCCACATTTCTTAG ATGGAAGAGATATAAATGGACGCATGCCGTCCATCCTAGTGGATTGGCTGGTACAAGTCC ACTCCAAGTTTAGGCTTCTGCAGGAGACTCTGTACATGTGCGTTGGCATTATGGATCGAT TTTTACAGTTTACGCCAGTTTCCCGGAAGAAGCTTNCATTAGTTGGGATTACTGCTCTGC TCTTGGCTTCCAGTATGAGGAGATGTTTTCTCCAATATTTGAGACTTGTTACATCACAGA CATGCTTATACAGNTNCCAATCCGAGAATGGAACCTCTAATTTGAAAGAATGAAATTGGAN TGGGTCGACCTTGCACTACCTTCTTAGCGAGCTC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004701 unedited</p> <pre> CCTCTATGGACCGCGCCCGCTATCTATGATCGGTTTTTTTTTTTTTTTTTTTACCTTAA AAAAACAATCGCTTTATTTTTCTCATATATGTTTAGAAAAGTGGTCTGAGAAGAGGTTT CATGAGATAGACCAGAGGACTATGTACAAAATCAAGAGTCTAAACCAATAAGAAAAAGG GCACAATGAAGCACACATCCCCAGGGGCCACGGCAGCCTAGGACCTTCTATCAGTGGGG AGGCAAGGTCTTTGACGGCTTTTGAGTTCAGCTGAGGGATCATGCTGATCTTCAGGAGTT TGCTGCTTGCACTTATTCTTGATGGCCTGCAGAAGTCATTTGTGATTAAGCACATGTC AGGAACCCCAATGATACCTTATTCCTAGTCTAACTCACAAATATCAAAGGTCCACGGCT ACAATCATGATCATTGATGATGCCCAATCGCTGAAGCCAGTGAAGGCTCTGGGCTCAT AACATGTGCCTGACCATTTCTTCCATCCCCATTAATGAATAAAACACAGCTGGTAGCAC AGGTGATAGGAACAAATGATTTCAAGGTCCAAGTAGCAGGCTTCTCTTGTAGGCTACCA GAGGGATGGGAGGGGGAGCCTGTGTTTACGACACCTAAGTGCCATCAGGACATAACAGGT TCACCAGGCTGGCAGCAATAGGAACAATTAAGACACTAAAAGACACTAAAAGAGGGT GGCAACTAGTCTTAACAATCCAGACAGTCCCTCAGGACTGAACACATATTACACTT CCATGAAGCAAACATGTTGTGAGGACACTTGAGACTCTTTTGAAGTTCATATACCTTGCT CTTTGCCCCACACCCTCGGGAGCTCTGGATGTTGGGCGCTCACAAAGCCAGGACAGCAC TAATTTCCCTCGGCTTCCCTAAAGAGGGCCTGGCCGAATAGAACCCTGCCCTTAGGATG CCT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004701
Insert Size:	2880 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_004701.2 , NP_004692.1
RefSeq Size:	1530 bp
RefSeq ORF:	1197 bp
Locus ID:	9133
UniProt ID:	O95067
Cytogenetics:	15q22.2
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:	Cyclin B2 is a member of the cyclin family, specifically the B-type cyclins. The B-type cyclins, B1 and B2, associate with p34cdc2 and are essential components of the cell cycle regulatory machinery. B1 and B2 differ in their subcellular localization. Cyclin B1 co-localizes with microtubules, whereas cyclin B2 is primarily associated with the Golgi region. Cyclin B2 also binds to transforming growth factor beta RII and thus cyclin B2/cdc2 may play a key role in transforming growth factor beta-mediated cell cycle control. [provided by RefSeq, Jul 2008]