

Product datasheet for **SC120236**

Cyclin E2 (CCNE2) (NM_057749) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin E2 (CCNE2) (NM_057749) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin E2
Synonyms:	CYCE2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120236 sequence for NM_057749 edited (data generated by NextGen Sequencing)

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ATGTCAAGACGAAGTAGCCGTTTACAAGCTAAGCAGCAGCCCCAGCCAGCCAGACGGAA
TCCCCCAAGAAGCCAGATAATCCAGGCCAAGAAGAGGAAAACTACCCAGGATGTCAAA
AAAAGAAGAGAGGAGGTACCAAGAAACATCAGTATGAAATTAGGAATTGTTGGCCACCT
GTATTATCTGGGGGATCAGTCCTTGCATTATCATTGAAACACCTCACAAAGAAATAGGA
ACAAGTGATTTCTCCAGATTTACAAATTACAGATTTAAAAATCTTTTTATTAATCCTTCA
CCTTTGCCTGATTTAAGCTGGGGATGTTCAAAGAAGTCTGGCTAAACATGTTAAAAAG
GAGAGCAGATATGTTTCATGACAAACATTTGAAGTTCTGCATTCTGACTTGAACCACAG
ATGAGGTCATACTTCTAGACTGGCTTTTAGAGGTATGTGAAGTATACACACTTCATAGG
GAAACATTTTATCTTGCACAAGACTTTTTGATAGATTTATGTTGACACAAAAGGATATA
AATAAAAATATGCTTCAACTCATTGGAATTACCTCATTATTCATTGCTTCCAAACTTGAG
GAAATCTATGCTCCTAACTCCAAGAGTTTGCTTACGTCCTGATGGTGCTTGCAGTGAA
GAGGATATCTTAAGGATGGAACCTATTATATTAAGGCTTTAAAAAGGAACTTTGTCCT
GTAACAATCATCTCCTGGCTAAATCTCTTTCTCCAAGTTGATGCTCTTAAAGATGCTCCT
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CTGTGATTCTAGCCATTGATTCATTAGAGTCCAGTACAGAATACTGACTGCTGCTGCC
TTGTGCCATTTTACCTCCATTGAAGTGGTTAAGAAAGCCTCAGGTTTGGAGTGGGACAGT
ATTTCAGAATGTGTAGATTGGATGGTACCTTTTGTCAATGTAGTAAAAAGTACTAGTCCA
GTGAAGCTGAAGACTTTTAAAGAAGATTCTATGGAAGACAGACATAATATCCAGACACAT
ACAAACTATTTGGCTATGCTGGAGGAAGTAAATTACATAAACACCTTCAGAAAAGGGGA
CAGTTGTCACCAAGTGTGCAATGGAGGCATTATGACACCACCGAAGAGCACTGAAAAACCA
CCAGGAAAACACTAA

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Clone variation with respect to NM_057749.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_057749 unedited
 TGTCAGCATTTGTATACGACTCATATAGGCGGCCTGCGAATCGGCACGAGGGAGGTTTTA
 TACACCTGAAAGAGAGATGTCAAGACGAAGTAGCCGTTTACAAGCTAAGCAGCAGCCCCA
 GCCCAGCCAGACGGAAATCCCCCAAGAAGCCAGATAATCCAGGCCAAGAAGAGGAAAAAC
 TACCCAGGATGTCAAAAAAGAAGAGAGGAGGTACCAAGAAACATCAGTATGAAATTAG
 GAATTGTTGGCCACCTGTATTATCTGGGGGATCAGTCCCTGCATTATCATTGAAACACC
 TCACAAGAAATAGGAACAAGTATTTCTCCAGATTTACAAATTACAGATTTAAAAATCT
 TTTTATTAATCCTTCACCTTTGCCTGATTTAAGCTGGGGATGTTCAAAGAAGTCTGGCT
 AAACATGTTAAAAAGGAGAGCAGATATGTTTCATGACAAACATTTTGAAGTTCTGCATTC
 TGACTTGAACCACAGATGAGGTCCATACTTCTAGACTGGCTTTTAGAGGTATGTGAAGT
 ATACACACTTCATAGGGAACATTTTATCTTGACACAAGACTTTTTTATAGATTATGTT
 GACACAAAAGGATATAAATAAAAAATATGCTTCAACTCATTGGAATTACCTCATTATTCAT
 TGCTTCCAAACTTGAGGAAATCTATGCTCCTAACTCCAAGAGTTTGCTTACGTCCTGA
 TGGTGCTTGCAAGGAGGATATCTTAAGGATGGAACCTATTATATTAAGGCTTTACA
 ATGGGAACNTGTCTGNTACAATCATCTCCTGGCTAAATCTCTTTCNTCCAGNTGATGC
 TCTTAAAGAGCTCCTACAGTCTTCTACCTCAGTATTCTCAGGAACATTCATTCAATAGCT
 CAGCTTTTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_057749 unedited
 NNTTTTGTGGAAACCGCGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTAA
 TTTTTTAACTTTATTTTTTAAACAATGGGGCTAAAAATAAACAGTATTAAGGTTAA
 GTTTATATAATACATATGTACACAATTAGTGGTGTCTTTTTCAGACAAAATACTGAAA
 CAAATATTAGTTAAAAACAACATACAGAAGACTTCATACCGTAACAATAAATGTATA
 GTTCTTCAAAGGAGAAGAGATTACATATCTGATAACAAAATAAACTAGCAATCTAGT
 TTTCTAATCTACTTTATGAGGCTGGATTTTTTTTTTAGAAAAGCTAATTTAAATATTTA
 GAAATAGCTAGCCTATGTACAGCAAGTTTTCATGTCTTTTTTAAATAATAGATTCTAG
 GAGTCAGTATATTTAACTCTTCTTCTTAAGAAAATAGAAGTTTAGGTCAAGTGTT
 AAGCTTTATCACTTTGACACTGCTTATCTCACAAATGGAGGAATTTAGAAAAGGACCTTA
 ACAGTTTCACAAACATAAATAAAGCCTTAGTCACACTAAATTAATAAATTTCTTCTAG
 GGATATCTTAGAGTAGTAAAGTGACTTCCTCATATAAATAGTTTGAAGGGTACTTAAGT
 TTTTACCCAAAATGTGATATACAAAAAGGTTATTACCAAGCACTACATGTCAAGAAA
 GCCCAGTTAGGAAGGAGCCACAGCATTATCTTGTTTATAATTTCTTTGGGACTCCCAC
 TGTTTAGAGCACAGGTTGAACACCATGTTTCATCTAAGCCTTATTAGTTAAAAAATGTGTT
 ATGGGCAAGGCAATAAAGTATTTAAAAACATTAATTCACCATTGTAGAAATCAAGTT
 TATAATAGCTTGCTTAGCAGCATAGATAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_057749

Insert Size:

2960 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_057749.1 , NP_477097.1
RefSeq Size:	2748 bp
RefSeq ORF:	1215 bp
Locus ID:	9134
UniProt ID:	O96020
Cytogenetics:	8q22.1
Domains:	cyclin_C, CYCLIN, cyclin
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer
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 CDK2. This cyclin has been shown to specifically interact with CIP/KIP family of CDK inhibitors, and plays a role in cell cycle G1/S transition. The expression of this gene peaks at the G1-S phase and exhibits a pattern of tissue specificity distinct from that of cyclin E1. A significantly increased expression level of this gene was observed in tumor-derived cells. [provided by RefSeq, Jul 2008]</p>