

Product datasheet for **RG218597**

Cyclin E2 (CCNE2) (NM_057749) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin E2 (CCNE2) (NM_057749) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyclin E2
Synonyms:	CYCE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218597 representing NM_057749 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAGACGAAGTAGCCGTTTACAAGCTAAGCAGCAGCCCCAGCCAGCCAGACGGAATCCCCCAAG
AAGCCCAGATAATCCAGGCCAAGAAGAGGAAAACACCCAGGATGTCAAAAAAGAAGAGAGGAGGTCAC
CAAGAAACATCAGTATGAAATTAGGAATTGTTGGCCACCTGTATTATCTGGGGGATCAGTCCTTGCAAT
ATCATTGAAACACCTCACAAAGAAATAGGAACAAGTGATTTCTCCAGATTTACAAATTACAGATTTAAAA
ATCTTTTTATTAATCCTTACCTTTGCCTGATTTAAGCTGGGGATGTTCAAAGAAGTCTGGCTAAACAT
GTTAAAAAAGGAGAGCAGATATGTTTCATGACAAACATTTTGAAGTCTGCATTCTGACTTGAACCCACAG
ATGAGGTCCATACTTCTAGACTGGCTTTTAGAGGTATGTGAAGTATACACTTTCATAGGAAAACATTTT
ATCTTGCACAAGACTTTTTTGATAGATTTATGTTGACACAAAAGGATATAAATAAAAAATGCTTCAACT
CATTGGAATTACCTCATTATTCATTGCTTCCAACTTGAGGAAATCTATGCTCCTAACTCCAAGAGTTT
GCTTACGTCAGTATGGTCTTGCAGTGAAGAGGATATCTTAAGGATGGAACCTATTATATTAAGGCTT
TAAATGGGAACTTTGCCTGTAAACATCATCTCTGGCTAAATCTTTCTCCAAGTTGATGCTCTTAA
AGATGCTCCTAAAGTTCTTCTACCTCAGTATTCTCAGGAAACATTCAATCAAATAGCTCAGCTTTTAGAT
CTGTGTATTCTAGCCATTGATTCATTAGAGTTCAGTACAGAATACTGACTGCTGCTGCTGCTGCTGCTGCT
TTACCTCATTGAAGTGGTTAAGAAAGCCTCAGGTTTGGAGTGGGACAGTATTTTCAAGATGTGTAGATTG
GATGGTACCTTTTGTCAATGTAGTAAAAAGTACTAGTCCAGTGAAGCTGAAGACTTTTAAGAAGATTCTCT
ATGGAAGACAGACATAATATCCAGACACATAAACTATTTGGCTATGCTGGAGGAAGTAAATTACATAA
ACACCTTCAGAAAAGGGGACAGTTGTCACCAGTGTGCAATGGAGGCATTATGACACCACCGAAGAGCAC
TGAAAAACCACCAGGAAAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218597 representing NM_057749
 Red=Cloning site Green=Tags(s)

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MSRRSSRLQAKQQPQPSQTESPQEAQIIQAKKRKTTQDVKKRREEVTKKHQYEIRNCWPPVLSGGISPCI
I IETPHKEIGTSDFSFRFTNYRFKNLFINPSPLPDL SWGCSKEVWLNMLKESRYVHDKHFEVLHSDLEPQ
MRSILLDWLLEVCEVYTLHRETFYLAQDFDFRMLTQKDINKNMLQLIGITSLF IASKLEEIYAPKLQEF
AYVTDGACSEEDILRMELIILKALKWELCPVTIISWLNLFQVDALKDAPKVLPLPQYSQETFIQIAQLLD
LCILAIDSLEFQYRILTAALCHFTSIEVVKASGLEWDSISECDWMVPFVNVVKSTSPVKLKTFFKKIP
MEDRHNIQTHTNYLAML EEVNYINTFRKGGQLSPVCNGGIMTPPKSTEKPPGKH
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_057749

ORF Size: 1212 bp

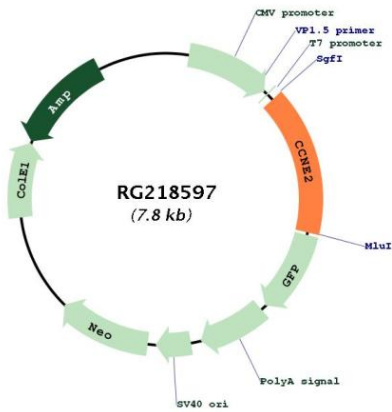
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<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_057749.2
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>

Product images:



Circular map for RG218597