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Product datasheet for RC214170

Cyclin T2 (CCNT2) (NM_058241) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin T2 (CCNT2) (NM_058241) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclin T2
Synonyms:	CYCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214170 representing NM_058241
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCGGGCCGTGGAGCTTCTTCTCGCTGGTTCTTTACTCGGGAACAGCTGGAGAACACGCCGAGCC
GCCGCTGCGGAGTGGAGGCGGATAAAGAGCTCTCGTGCCGCCAGCAGGCGGCCAACCTCATCCAGGAGAT
GGGACAGCGTCTCAATGTCTCTCAGCTTACAATAAACACTGCGATTGTTTATATGCACAGGTTTTATATG
CACCATTCTTTCACCAAATTCAACAAAAATATAATATCGTCTACTGCATTATTTTTGGCTGCAAAAGTGG
AAGAACAGGCTCGAAAACTTGAACATGTTATCAAAGTAGCACATGCTTGTCTTCATCCTCTAGAGCCACT
GCTGGATACTAAATGTGATGCTTACCTTCAACAGACTCAAGAACTGGTTATACTTGAAACCATAATGCTA
CAAACTCTAGGTTTTGAGATCACCATTGAACACCCACACACAGATGTGGTGAAATGTACCCAGTTAGTAA
GAGCAAGCAAGGATTTGGCACAGACATCCTATTTCATGGCTACCAACAGTCTGCATCTTACAACCTTCTG
TCTTCAGTACAAACCAACAGTGATAGCATGTGTATGCATTCATTTGGCTTGCAAATGGTCCAATTGGGAG
ATCCCTGTATCAACTGATGGAAAGCATTGGTGGGAATATGTGGATCCTACAGTTACTCTAGAATTATTAG
ATGAGCTAACACATGAGTTTCTACAAATATTGGAGAAAACGCCTAATAGGTTGAAGAAGATTCGAAACTG
GAGGGCTAATCAGGCAGCTAGGAAACCAAAAGTAGATGGACAGGTATCAGAGACACCACTTCTTGGTTCA
TCTTTGGTCCAGAATTCCATTTTAGTAGATAGTGTCACTGGTGTGCCTACAAACCCAAGTTTTCAGAAAC
CATCTACATCAGCATTCCCTGCGCCAGTACCTCTAAATTCAGGAAATATTTCTGTTCAAGACAGCCATAC
ATCTGATAATTTGTCAATGCTAGCAACAGGAATGCCAAGTACTTCATACGGTTTATCATCACACCAGGAA
TGGCCTCAACATCAAGACTCAGCAAGGACAGAACAGCTATATTCACAGAAACAGGAGACATCTTTGTCTG
GTAGCCAGTACAACATCAACTTCCAGCAGGGACCTTCTATATCACTGCATTCAGGATTACATCACAGACC
TGACAAAATTTCAGATCATTCTTCTGTTAAGCAAGAATATACTCATAAAGCAGGGAGCAGTAAACACCAT
GGGCCAATTTCCACTACTCCAGGAATAATTCCTCAGAAAATGTCTTTAGATAAATATAGAGAAAAGCGTA
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ACTGAAAAATACATGGCAGACAAAAAGGAAAAGAGTGGGTCACTGAAATTACGGATTCCAATACCACCCA
CTGATAAAAGCGCCAGTAAAGAAGAACTGAAAATGAAAATAAAAGTTTCTTCTTCAGAAAGACACAGCTC
TTCTGATGAAGGCAGTGGGAAGAGCAAACATTCAAGCCCACATATTAGCAGAGACCATAAGGAGAAGCAC
AAGGAGCATCCTTCAAGCCGCCACCACACCAGCAGCCACAAGCATTCCCACTCGCATAGTGGCAGCAGCA
GCGGTGGCAGTAAACACAGTGCCGACGGAATACCACCCACTGTTCTGAGGAGTCCTGTTGGCCTGAGCAG
TGATGGCATTTCCTCTAGCTCCAGCTCTTCAAGGAAGAGGCTGCATGTCAATGATGCATCTCACAACCAC
CACTCCAAAATGAGCAAAAGTTCCAAAAGTTCAGGTAGTTCATCTAGTTCTTCCTCCTCTGTTAAGCAGT
ATATATCCTCTCACAACTCTGTTTTTAACCATCCCTTACCCCCTCCTCCCCCTGTCACATACCAGGTGGG
CTACGGACATCTCAGCACCCTCGTGAAACTGGACAAGAAGCCAGTGGAGACCAACGGTCCTGATGCCAAT
CACGAGTACAGTACAAGCAGCCAGCATATGGACTACAAAGACACATTCGACATGCTGGACTCACTGTTAA
GTGCCCAAGGAATGAACATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

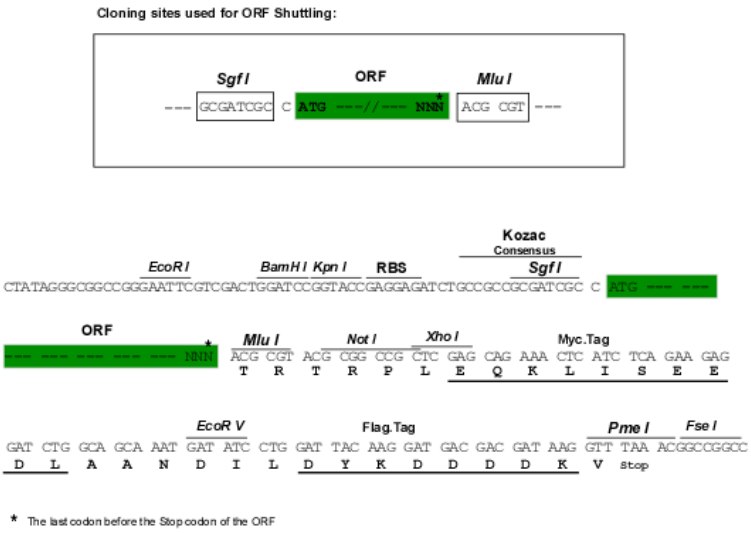
>RC214170 representing NM_058241
Red=Cloning site Green=Tags(s)

MASGRGASSRWFFTREQLENTPSRRCGVEADKELSCRQQAANLIQEMGQRLNVSQLTINTAIVYMHRFYM
HHSFTKFNKNIISSTALFLAAKVEEQARKLEHVIKVAHACLHPLEPLLDTKCDAYLQQTQELVILETIML
QTLGFEITIEHPHTDVVKCTQLVRASKDLAQTSYFMATNSLHLTTFCLQYKPTVIACVCIHLACKWSNWE
IPVSTDGKHWWEYVDPTVTLELLDELTHEFLQILEKTPNRLKKIRNWRANQAARKPKVDGQVSETPLLGS
SLVQNSILVDSVTGVPTNPSFQKPSTSAFPAPVPLNSGNISVQDSHTSDNLSMLATGMPSTSYGLSSHQE
WPQHQDSARTEQLYSQKQETSLSGSQYNINFQQGPSISLHSGLHHRPDKISDHSSVKQEYTHKAGSSKHH
GPISTTPGIIPQKMSLDKYREKRKLETLDLDVRDHYIAAQVEQQHKQGQSQAASSSSVTSPIKMKIPIAN
TEKYMADKKEKSGSLKLRIPIPPTDKSASKEELKMKIKVSSSERHSSSDEGSGKSKHSSPHISRDHKEKH
KEHPSSRHHTSSHKHSHSHSGSSSGGSKHSADGIPPTVLRSPVGLSSDGISSSSSSSRKRLHVNDASHNH
HSKMSKSSKSSGSSSSSSSSVKQYISSHNSVFNHPLPPPPPVTYQVGYGHLSTLVKLDKKPVETNGPDAN
HEYSTSSQHMDYKDTFDMLDSLLSAQGMNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_058241

ORF Size: 2190 bp

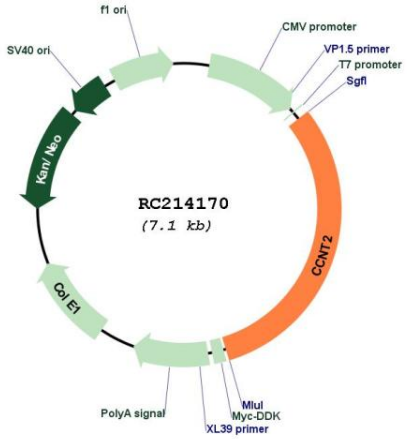
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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_058241.3
RefSeq Size:	6923 bp
RefSeq ORF:	2193 bp
Locus ID:	905
UniProt ID:	O60583
Cytogenetics:	2q21.3
Domains:	CYCLIN, cyclin
Protein Families:	Druggable Genome, Transcription Factors
MW:	81 kDa
Gene Summary:	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 and its kinase partner CDK9 were found to be subunits of the transcription elongation factor p-TEFb. The p-TEFb complex containing this cyclin was reported to interact with, and act as a negative regulator of human immunodeficiency virus type 1 (HIV-1) Tat protein. A pseudogene of this gene is found on chromosome 1. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]

Product images:



Circular map for RC214170