

OriGene Technologies, Inc.

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Product datasheet for RC236371

Cyclin T1 (CCNT1) (NM_001277842) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin T1 (CCNT1) (NM_001277842) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCNT1
Synonyms:	CCNT; CYCT1; HIVE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	<pre>>RC236371 representing NM_001277842 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGAGGGAGAGAGAAGAACAACAACAACAACGGTGGTATTTCACTCGAGAACAGCTGGAAAATAGCCCAT CCCGTCGTTTTGGCGTGGACCCAGATAAAGAACTTTCTTATCGCCAGCAGGCGGCCAATCTGCTTCAGGA CATGGGGCAGCGTCTTAACGTCTCACAATTGACTATCAACACTGCTATAGTATACATGCATCGATTCTAC ATGATTCAGTCCTTCACACAGTTCCCTGGAAATTCTGTGGGCTCCAGCAGCCTTGTTTCTAGCAGCTAAAG TGGAGGAGCAGCCCAAAAAATTGGAACATGTCATCAAGGTAGCACATACTTGTCTCCATCCTCAGGAATC CCTTCCTGATACTAGAAGTGAGGCTTATTTGCAACAAGTTCAAGATCTGGTCATTTTAGAAAGCATAATT TTGCAGACTTTAGGCTTTGAACTAACAATTGATCACCCACATACTCGTGAGTAAAGTGCACTCAACTTG TTCGAGCAAGCAAGGAACTTAGCACAGACTTCTTACTTCATGCAACAAGTGCACTCAACTTG TTCGAGCAAGCAAGGAACTTAGCACAGACTTCTTACTTCATGGCAACCAAACTGACACA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC236371 representing NM_001277842 Red=Cloning site Green=Tags(s)
	MEGERKNNNKRWYFTREQLENSPSRRFGVDPDKELSYRQQAANLLQDMGQRLNVSQLTINTAIVYMHRFY MIQSFTQFPGNSVAPAALFLAAKVEEQPKKLEHVIKVAHTCLHPQESLPDTRSEAYLQQVQDLVILESII LQTLGFELTIDHPHTHVVKCTQLVRASKDLAQTSYFMATNRTDT
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul

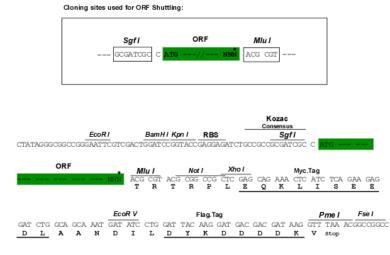


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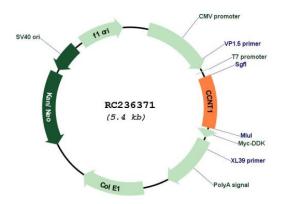


Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001277842
ORF Size:	552 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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ORIGENE Cyclin T1 (CCNT1) (NM_001277842) Human Tagged ORF Clone – RC236371	
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001277842.2</u>
RefSeq Size:	6915 bp
RefSeq ORF:	555 bp
Locus ID:	904
UniProt ID:	<u>O60563</u>
Cytogenetics:	12q13.11-q13.12
Protein Families:	Druggable Genome, Transcription Factors
MW:	21.7 kDa
Gene Summary:	This gene encodes a member of the highly conserved cyclin C subfamily. The encoded protein tightly associates with cyclin-dependent kinase 9, and is a major subunit of positive transcription elongation factor b (p-TEFb). In humans, there are multiple forms of positive transcription elongation factor b, which may include one of several different cyclins along with cyclin-dependent kinase 9. The complex containing the encoded cyclin and cyclin-dependent kinase 9 acts as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and is both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner are also involved in triggering transcript elongation through phosphorylation of the carboxy-terminal domain of the largest RNA polymerase II subunit.

multiple transcript variants. [provided by RefSeq, Apr 2013]

Overexpression of this gene is implicated in tumor growth. Alternative splicing results in

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