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Product datasheet for SC125253

Cyclin T1 (CCNT1) (NM_001240) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin T1 (CCNT1) (NM_001240) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin T1
Synonyms:	CCNT; CYCT1; HIVE1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001240 edited
ATGGAGGGAGAGAGGAAGAACAACAACAAACGGTGGTATTTCACTCGAGAACAGCTGGAA
AATAGCCCATCCCGTCGTTTTGGCGTGGACCCAGATAAAGAACTTTCTTATCGCCAGCAG
GCGGCCAATCTGCTTCAGGACATGGGGCAGCGTCTTAACGTCTCACAATTGACTATCAAC
ACTGCTATAGTATACATGCATCGATTCTACATGATTCAGTCCTTCACACAGTTCCCTGGA
AATTCTGTGGCTCCAGCAGCCTTGTTTCTAGCAGCTAAAGTGGAGGAGCAGCCCAAAAAA
TTGGAACATGTCATCAAGGTAGCACATACTTGTCTCCATCCTCAGGAATCCCTTCCTGAT
ACTAGAAGTGAGGCTTATTTGCAACAAGTTCAAGATCTGGTCATTTTAGAAAGCATAATT
TTGCAGACTTTAGGCTTTGAACTAACAATTGATCACCCACATACTCATGTAGTAAAGTGC
ACTCAACTTGTTCGAGCAAGCAAGGACTTAGCACAGACTTCTTACTTCATGGCAACCAAC
AGCCTGCATTTGACCACATTTAGCCTGCAGTACACACCTCCTGTGGTGGCCTGTGTCTGC
ATTCACCTGGCTTGCAAGTGGTCCAATTGGGAGATCCCAGTCTCAACTGACGGGAAGCAC
TGGTGGGAGTATGTTGACGCCACTGTGACCTTGGAACTTTTAGATGAACTGACACATGAG
TTTCTACAGATTTTGGAGAAAACTCCCAACAGGCTCAAACGCATTTGGAATTGGAGGGCA
TGCGAGGCTGCCAAGAAAACAAAAGCAGATGACCGAGGAACAGATGAAAAGACTTCAGAG
CAGACAATCCTCAATATGATTTCCCAGAGCTCTTCAGACACAACCATTGCAGGTTTAATG
AGCATGTCAACTTCTACCACAAGTGCAGTGCCTTCCCTGCCAGTCTCCGAAGAGTCATCC
AGCAACTTAACCAGTGTGGAGATGTTGCCGGGCAAGCGTTGGCTGTCCTCCCAACCTTCT
TTCAAACTAGAACCTACTCAGGGTCATCGGACTAGTGAGAATTTAGCACTTACAGGAGTT
GATCATTCCTTACCACAGGATGGTTCAAATGCATTTATTTCCCAGAAGCAGAATAGTAAG
AGTGTGCCATCAGCTAAAGTGTCACTGAAAGAATACCGCGCGAAGCATGCAGAAGAATTG
GCTGCCCAGAAGAGGCAACTGGAGAACATGGAAGCCAATGTGAAGTCACAATATGCATAT
GCTGCCCAGAATCTCCTTTCTCATCATGATAGCCATTCTTCAGTCATTCTAAAAATGCCC
ATAGAGGGTTCAGAAAACCCCGAGCGGCCTTTTCTGGAAAAGGCTGACAAAACAGCTCTC
AAAATGAGAATCCCAGTGGCAGGTGGAGATAAAGCTGCGTCTTCAAAACCAGAGGAGATA
AAAATGCGCATAAAAGTCCATGCTGCAGCTGATAAGCACAATTCTGTAGAGGACAGTGTT
ACAAAGAGCCGAGAGCACAAAGAAAAGCACAAGACTCACCCATCTAATCATCATCATCAT
CATAATCACCACTCACACAAGCACTCTCATTCCCAACTTCCAGTTGGTACTGGGAACAAA
CGTCCTGGTGATCCAAAACATAGTAGCCAGACAAGCAACTTAGCACATAAAACCTATAGC
TTGTCTAGTTCTTTTTCCTCTTCCAGTTCTACTCGTAAAAGGGGACCCTCTGAAGAGACT
GGAGGGGCTGTGTTTGATCATCCAGCCAAGATTGCCAAGAGTACTAAATCCTCTTCCCTA
AATTTCTCCTTCCCTTCACTTCCTACAATGGGTCAGATGCCTGGGCATAGCTCAGACACA
AGTGGCCTTTCCTTTTCACAGCCCAGCTGTAAAACTCGTGTCCCTCATTCGAAACTGGAT
AAAGGGCCCACTGGGGCCAATGGTCACAACACGACCCAGACAATAGACTATCAAGACACT
GTGAATATGCTTCACTCCCTGCTCAGTGCCCAGGGTGTTCAGCCCACTCAGCCCACTGCA
TTTGAATTTGTTCGTCCTTATAGTGACTATCTGAATCCTCGGTCTGGTGGAATCTCCTCG
AGATCTGGCAATACAGACAAACCCCGGCCACCACCTCTGCCATCAGAACCTCCTCCACCA
CTTCCACCCCTTCCTAAGTAA
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Restriction Sites: Please inquire

ACCN: NM_001240

Insert Size: 6500 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001240.2.

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_001240.2, NP_001231.2
RefSeq Size:	2568 bp
RefSeq ORF:	2181 bp
Locus ID:	904
UniProt ID:	O60563
Cytogenetics:	12q13.11-q13.12
Protein Families:	Druggable Genome, Transcription Factors
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. Overexpression of this gene is implicated in tumor growth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013] Transcript Variant: This variant (a, also known as FL and CycT1a) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.