

## Product datasheet for **MG224911**

### **Ccnt1 (NM\_009833) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ccnt1 (NM_009833) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccnt1
Synonyms:	2810478G24Rik; AI115585; CycT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224911 representing NM\_009833  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGGAGAGAGGAAGAACAACAACAAGCGGTGGTATTTTACTCGCGAGCAGCTGGAGAACAGCCCGT  
 CGCGTCGCTTTGGCGTGGACTCCGATAAAGAAGCTCTTACC GCCAGCAGGCGGCCAATCTCCTCCAGGA  
 CATGGGACAACGCTCTGAACGCTCACAACCTGACGATCAATACTGCTATAGTATACATGCACCGATTCTAC  
 ATGATTCACTCTTTACACAGTTTCATCGATATCCATGGCTCCAGCAGCCTTGTTTCTAGCAGCAAAAAG  
 TAGAAGAACAACCAAGAAATTGGAGCATGTCAAGGTGGCACACACTTGCCTGCACCCACAGGAGTC  
 ACTTCCTGACACGAGGAGTGAGGCTTACCTACAACAAGTTCAAGATCTGGTGATTTTAGAGAGTATAATT  
 TTGCAGACCTTAGGGTTGAACTAACAATTGATCACCCACATACACATGTGGTAAAGTGCACCCAGCTTG  
 TTCGAGCAAGCAAGGACTTAGCACAGACATCTTACTTCATGGCAACCAACAGCCTGCATTTGACCACATT  
 TAGCCTGCAGTACACACCTCCTGTGGTGGCCTGTGTCTGCATCCATCTGGCTTGAAGTGGTCCAACCTGG  
 GAGATCCCACTCAACTGACGGGAAGCACTGGTGGGAGTATGTTGACGCCACTGTGACCTTGGAACTGT  
 TAGATGAATTGACACATGAATTTCTACAGATTCTAGAGAAAACCTCCAAGCAGGCTGAAAACGTATTCGGAA  
 TTGGAGGGCGTACCAGGCTGCCATGAAAACCAAGCCAGATGACCGAGGAGCAGATGAAAACACGTCGGAG  
 CAGACAATCCTCAATATGATTTCTCAGACCTCTCAGACACAACCTATCGCAGGATTAATGAGCATGTCAA  
 CTGCGTCTACAAGTGCAGTGCCTTCCCTGCCTTCTCTGAGGAGTCATCGAGCAGTCTAACTAGTGTGGA  
 TATGTTGACAGGGCGAGCGGTGGCTGTCTCCCAACCTCCGTTTAAACTCGAAGCTGCCAGGGTCATCGG  
 ACTAGTGAGAGTTAGCACTTATTGGCCTTGATCATTCTTGAACAGGATGGTCCAGTGCCTTGGTT  
 CCCAGAAGCAGGGCAGCAAGAGTGTCCATCTGCTAAGGTTTCACTTAAGGAGTACCGTGCAAAGCAGC  
 GGAAGAGTTGGCTGCTCAGAAGAGGCAGCTGGAGAACATGGAGGCCAATGTGAAGTACAGTATGCGTAT  
 GCTGCCAGAATCTCCTGTCTCACGACAGCCATTCTCAGTTATTCTCAAATGCCATTGAGAGCTCAG  
 AAAACCTGAACGTCCTTTCTGGATAAGGCTGACAAAACAGCTCTGAAAATGAGACTCCCTGTGGCCAG  
 TGGGGATAAAGCAGTTTCTTCCAAGCCAGAGGAGATAAAGATGCGCATTAAAGTTCACCTGTCAGGGGAT  
 AAGCACAATCCATAGAAGACAGTGTACCAAGAGCCGCGAGCACAAGGAGAAGCAGAGGACTCACCCGT  
 CTAACCACCACCACATACAACCACACTCACACAGGCACTCTCACTTACAGCTGCCAGCCGGCCCGT  
 GAGCAAACGCCAAGTATCCAAAACACAGCAGCCAGACAAGCACCTTAGCACACAAAACCTACAGCTTG  
 TCCAGTACTTTGTCTTCCAGCTCTACTCGTAAAAGGGGTCCCCGGAAGAGACTGGGGCAGCAGTAT  
 TTGATCATCCAGCCAAGATTGCCAAGAGTACTAAATCTTCTTGAATTTCCCTTCCCCCCTTCTCTAC  
 AATGACCCAGTTGCCTGGGCATAGCTCAGACACAAGTGGCCTGCCCTTTTACAGCCTAGCTGTAAAAC  
 CGAGTTCTCATATGAACTGGATAAAGGCCCTCCTGGGGCTAATGGTCAACAACGCAACTCAGTCAATAG  
 ATTATCAAGACACTGTGAATATGCTCCACTCCCTGCTTAGTGCCAGGGGTTTCCAGCCACACAGGCCCC  
 TGCATTTGAATTTGTCCACTCTTATGGTGAATATGAATCCCAGAGCTGGTGCCATCTCCTCCAGATCT  
 GGCACACAGACAAAACCTCGGCCACCACCCTCCCATCAGAACCCTCCACCCTTCCACCTCTTCTCTA  
 AG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG224911 representing NM\_009833  
 Red=Cloning site Green=Tags(s)

```
MEGERKNNKRWFYFTREQLNSPSRRFGVSDSKELSYRQQAANLLQDMGQRLNVSQTLINTAIVYMHRFY
MIQSFTQFHRYSMAPAALFLAAKVEEQPKLEHVIKVAHTCLHPQESLPDTRSEAYLQQVQDLVILESII
LQTLGFELTIDHPHTHVVKCTQLVRASKDLAQT SYFMATNSLHL TTFSLQYTPPVVACVCIHLACKWSNW
EIPVSTDGKHWWEYVDATVTLELLDEL THEFLQILEKTPSRLKRI RNWRAYQAAMKTKPDDRGADENTSE
QTILNMI SQTSSDTTIAGLMSMSTASTSAVPSLPSSESSSLTSVDMLQGERWLSQPPFKLEAAQGHR
TSESLALIGVDHSLQQDGSSAFGSQKQASKSVPSAKVSLKEYRAKHAEEELAAQKRQLENMEANVKSQYAY
AAQNLLSHDSHSSVILKMPIESSENPERPFLDKADKSALKMRLPVASGDKAVSSKPEEIKMRIKVSAGD
KHNSIEDSVTKSREHKEKQRTHPNSHHHHHHSHRSHLQLPAGPVSKRPSDPKHSSQTSTLAHKTYSL
SSTLSSSSSTRKRGPPPEETGAAVFDHPAKIAKSTKSSLNFPFPLPTMTQLPGHSSDTSGLPFSQPCKT
RVPHMKLDKGGPPGANGHNATQSIDYQDVTNMLHSLLSAQGVQPTQAPAFEFVHSYGEYMNPRAGAISSRS
GTTDKRPPPLPSEPPPLPPLPK
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009833

**ORF Size:** 2172 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\\_009833.2](#)

**RefSeq Size:** 2175 bp

**RefSeq ORF:** 2175 bp

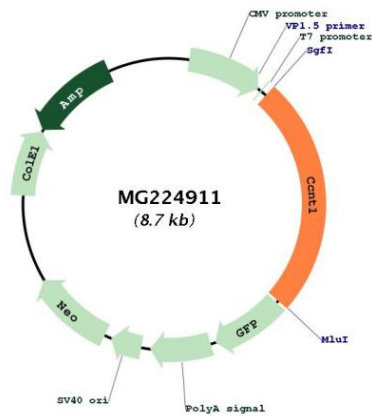
**Locus ID:** 12455

**UniProt ID:** [Q9QWV9](#)

**Cytogenetics:** 15 F1

**Gene Summary:** Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin-T1) complex, also called positive transcription elongation factor B (P-TEFb), which is proposed to facilitate the transition from abortive to productive elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNA Pol II).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG224911