

## Product datasheet for **RG220991**

### Cyclin Y (CCNY) (NM\_181698) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin Y (CCNY) (NM_181698) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyclin Y
Synonyms:	C10orf9; CBCP1; CCNX; CFP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220991 representing NM_181698 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAACACTACCTCGTGCTGCGTGTCCAGTCCCAAGCTCCGGAGGAATGCCCACTCCCGGCTGG  
AGTCCTACCGGCCAGACACGGACCTGAGCCGCGAGGACACGGGCTGCAACCTGCAGCACATCAGCGACCG  
GGAGAACATAGACGATTTGAACATGGAATTCATCCTTCAGATCATCCTCGGGCCAGCACAATATTCCTC  
AGTAAATCTCAGACGGACGTGAGAGAAAAACGCAAGAGTCTCTTCATTAACCATCATCCTCCAGGACAAA  
TAGCAAGGAAATACAGTTCCTGCTCCACCATTTTCCTAGATGATAGCACAGTCAGTCAACCAAACCTCAA  
GTATACAATTAATGTGTGCTCTTGAATATATTATCACATCAAAAACAGGGACCCAGATGGAAGGATG  
CTCTTAGATATTTTTGATGAAAATCTTCCACCTCTTTCGAAATCCGAAAGTGCCACCAGATTATGACAAA  
ACAACCCAGAGCAGAAGCAGATTTACCGGTTGCTTCCGACACTGTTTCAGTGTGCTCAGCTGACGGCTGA  
ATGTGCCATCGTCACCCTGGTGTACCTTGAAGACTTTTAAACATACGCAGAGATAGATATCTGTCCGGCC  
AACTGGAAGCGGATTGTTTTAGGGGCGATCCTGCTGGCCCAAGGTGTGGGATGACCAGGCTGTATGGA  
ATGTGGATTACTGCCAGATCCTGAAAGACATCACGGTGGAGGACATGAACGAGCTAGAGCGACAGTTTCT  
TGAATTGCTGCAGTTCAACATCAATGTTCCCTTCCAGTGTCTATGCCAAGTATTATTTTGTCTTCGTTCT  
CTGGCAGAAGCGAACAACCTGAGCTTTCCCTTGGAGCCCCTGAGCAGGGAGAGGCTCACAAAGCTTGAGG  
CCATCTCTCGCCTCTGCGAGGACAAGTACAAGGACCTAAGAAGATCCGCGAGGAAGCGCTCAGCCAGTGC  
AGACAACCTGACTCTGCCCGGTGGTCCCCAGCCATCATCTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG220991 representing NM\_181698  
 Red=Cloning site Green=Tags(s)

MGNTTSCVSSPKLRRNAHSRLESYRPDTL SREDTGCNLQHISDRENIDDLNMEFNPSDHPRASTIFL  
 SKSQTDVREKRKSLFINHHPPGQIARKYSSCSTIFLDDSTVSQPNLKYYTKCVLAIYYHIKNRDPDGRM  
 LLDIFDENLHPLSKSEVPPDYDKHNPEQKQIYRFVRTLF SAAQLTAECAIVTLVYLERLLTYAEIDICPA  
 NWKRIVLGAILLASKVWDDQAVWNVDYCQILKIDITVEDMNELERQFLELLQFNINVPSSVYAKYYFDLRS  
 LAEANNLSFPLEPLSRERAHKLEAISRLCEDKYKDLRRSARKRSASADNLTLPWSPAIIIS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_181698

**ORF Size:** 1026 bp

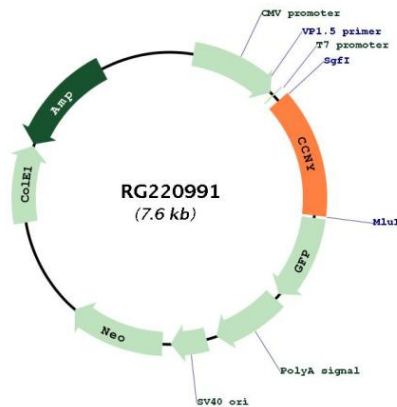
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_181698.1](#)
- RefSeq Size:** 4735 bp
- RefSeq ORF:** 864 bp
- Locus ID:** 219771
- UniProt ID:** [Q8ND76](#)
- Cytogenetics:** 10p11.21
- Gene Summary:** Cyclins, such as CCNY, control cell division cycles and regulate cyclin-dependent kinases (e.g., CDC2; MIM 116940) (Li et al., 2009 [PubMed 18060517]).[supplied by OMIM, May 2009]

**Product images:**



Circular map for RG220991