OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC220991

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:	Myc-DDK
Symbol:	Cyclin Y
Synonyms:	C10orf9; CBCP1; CCNX; CFP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220991 representing NM_181698
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAACACTACCTCGTGCTGCGTGTCGTCCAGTCCCAAGCTCCGGAGGAATGCCCACTCCCGGCTGG
AGTCCTACCGGCCAGACACGGACCTGAGCCGCGAGGACACGGGCTGCAACCTGCAGCACATCAGCGACCG
GGAGAACATAGACGATTTGAACATGGAATTCAATCCTTCAGATCATCCTCGGGCCAGCACAATATTCCTC
AGTAAATCTCAGACGGACGTGAGAGAAAAACGCAAGAGTCTCTTCATTAACCATCATCCTCCAGGACAAA
TAGCAAGGAAATACAGTTCCTGCTCCACCATTTTCCTAGATGATAGCACAGTCAGTCAACCAAACCTCAA
GTATACAATTAAATGTGTCGCTCTTGCAATATATTATCACATCAAAAACAGGGACCCAGATGGAAGGATG
CTCTTAGATATTTTTGATGAAAATCTTCACCCTCTTTCGAAATCCGAAGTGCCACCAGATTATGACAAAC
ACAACCCAGAGCAGAAGCAGATTTACCGGTTCGTTCGGACACTGTTCAGTGCTGCTCAGCTGACGGCTGA
ATGTGCCATCGTCACCCTGGTGTACCTTGAAAGACTTTTAACATACGCAGAGATAGATATCTGTCCGGCC
AACTGGAAGCGGATTGTTTTAGGGGCGATCCTGCTGGCCTCCAAGGTGTGGGATGACCAGGCTGTATGGA
ATGTGGATTACTGCCAGATCCTGAAAGACATCACGGTGGAGGACATGAACGAGCTAGAGCGACAGTTTCT
TGAATTGCTGCAGTTCAACATCAATGTTCCTTCCAGTGTCTATGCCAAGTATTATTTTGATCTTCGTTCT
CTGGCAGAAGCGAACAACCTGAGCTTTCCCTTGGAGCCCCTGAGCAGGGAGAGGGCTCACAAGCTTGAGG
CCATCTCTCGCCTCTGCGAGGACAAGTACAAGGACCTAAGAAGATCCGCGAGGAAGCGCTCAGCCAGTGC
AGACAACCTGACTCTGCCCCGGTGGTCCCCAGCCATCATCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

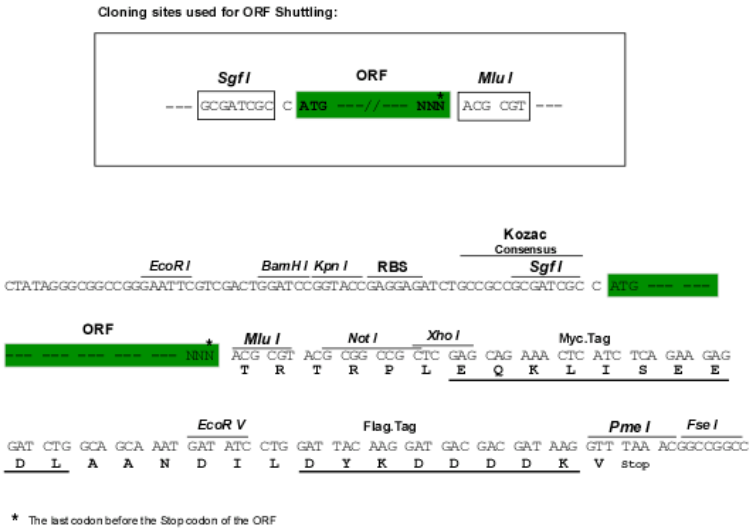
>RC220991 representing NM_181698
Red=Cloning site Green=Tags(s)

MGNTTSCCVSSSPKLRRNAHSRLESYRPDTDLSREDTGCNLQHISDRENIDDLNMEFNPSDHPRASTIFL
SKSQTDVREKRKSLFINHHPPGQIARKYSSCSTIFLDDSTVSQPNLKYTIKCVALAIYYHIKNRDPDGRM
LLDIFDENLHPLSKSEVPPDYDKHNPEQKQIYRFVRTLFSAAQLTAECAIVTLVYLERLLTYAEIDICPA
NWKRIVLGAILLASKVWDDQAVWNVDYCQILKDITVEDMNELERQFLELLQFNINVPSSVYAKYYFDLRS
LAEANNLSFPLEPLSRERAHKLEAISRLCEDKYKDLRRSARKRSASADNLTLPRWSPAIIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181698

ORF Size: 1026 bp

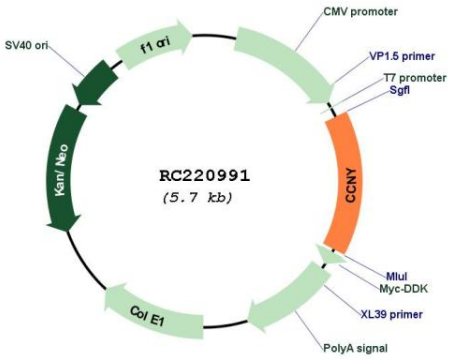
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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

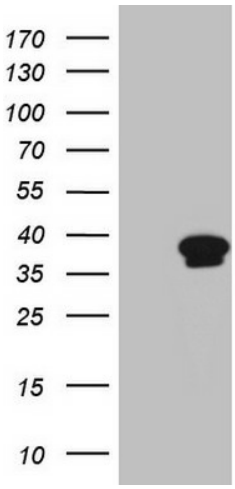
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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, NM_181698.2, NM_181698.3, NP_859049.2
RefSeq Size:	4735 bp
RefSeq ORF:	864 bp
Locus ID:	219771
UniProt ID:	Q8ND76
Cytogenetics:	10p11.21
MW:	39.3 kDa
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]

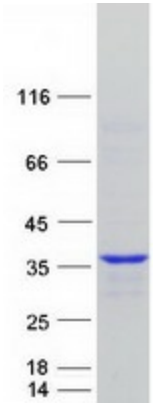
Product images:



Circular map for RC220991



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CCNY (Cat# RC220991, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CCNY (Cat# [TA808174])(1:2000).



Coomassie blue staining of purified CCNY protein (Cat# [TP320991]). The protein was produced from HEK293T cells transfected with CCNY cDNA clone (Cat# RC220991) using MegaTran 2.0 (Cat# [TT210002]).