

Product datasheet for **RG217807**

Cyclin Y (CCNY) (NM_145012) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin Y (CCNY) (NM_145012) 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:	>RG217807 representing NM_145012 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACACTACCTCGTGCTGCGTGTCTCCAGTCCCAAGCTCCGGAGGAATGCCCACTCCCGGCTGG
AGTCCTACCGGCCAGACACGGACCTGAGCCGCGAGGACACGGGCTGCAACCTGCAGCACATCAGCGACCG
GGAGAACATAGACGATTTGAACATGGAATTCATCCTTCAGATCATCCTCGGGCCAGCACAATATTCCTC
AGTAAATCTCAGACGGACGTGAGAGAAAAACGCAAGAGTCTCTTCATTAACCATCATCCTCCAGGACAAA
TAGCAAGGAAATACAGTTCCTGCTCCACCATTTTCCTAGATGATAGCACAGTCAGTCAACCAAACCTCAA
GTATACAATTAATGTGTCGCTCTTGAATATATTATCACATCAAAAACAGGGACCCAGATGGAAGGATG
CTCTTAGATATTTTTGATGAAAATCTTCCACCTCTTTCGAAATCCGAAAGTGCCACCAGATTATGACAAA
ACAACCCAGAGCAGAAGCAGATTTACCGGTTCTGTTCCGACACTGTTTCAGTGTCTGCTCAGCTGACGGCTGA
ATGTGCCATCGTCACCCTGGTGTACCTTAAAGACTTTTAAACATACGCAGAGATAGATATCTGTCCGGCC
AACTGGAAGCGGATTGTTTTAGGGGCGATCCTGCTGGCCCAAGGTGTGGGATGACCAGGCTGTATGGA
ATGTGGATTACTGCCAGATCCTGAAAGACATCACGGTGGAGGACATGAACGAGCTAGAGCGACAGTTTCT
TGAATTGCTGCAGTTCAACATCAATGTTCCCTTCCAGTGTCTATGCCAAGTATTATTTTGTCTTCGTTCT
CTGGCAGAAGCGAACACCTGAGCTTTCCCTTGGAGCCCCTGAGCAGGGAGAGGCTCACAAAGCTTGAGG
CCATCTCTCGCCTCTGCGAGGACAAGTACAAGGACCTAAGAAGATCCGCGAGGAAGCGCTCAGCCAGTGC
AGACAACCTGACTCTGCCCGGTTGGTCCCCAGCCATCATCTCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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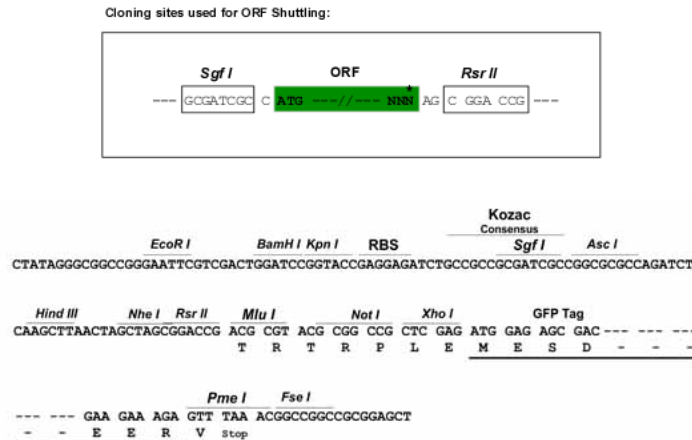
Protein Sequence: >RG217807 representing NM_145012
Red=Cloning site Green=Tags(s)

MGNTTSCVSSPKLRRNAHSRLESYRPDTDL SREDTGCNLQHISDRENIDDLNMEFNPSDHPRASTIFL
 SKSQTDVREKRKSLFINHHPPGQIARKYSSCSTIFLDDSTVSQPNLKYYIKCVLAIYYHIKNRDPDGRM
 LLDIFDENLHPLSKSEVPPDYDKHNPEQKQIYRFVRTLF SAAQLTAECAIVTLVYLERLLTYAEIDICPA
 NWKRIVLGAILLASKVWDDQAVWVNDYQCILKIDITVEDMNELERQFLELLQFNINVPSSVYAKYYFDLRS
 LAEANNLSFPLEPLSRERAHKLEAISRLCEDKYKDLRRSARKRSASADNLTLPWSPAIIS

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_145012

ORF Size: 1023 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_145012.6](#)

RefSeq Size: 4711 bp

RefSeq ORF: 1026 bp

Locus ID: 219771

UniProt ID: [Q8ND76](#)

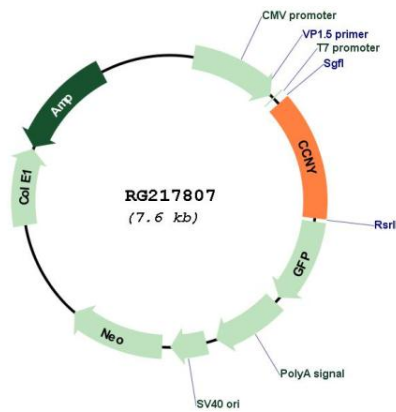
Cytogenetics: 10p11.21

Domains: CYCLIN, cyclin

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 RG217807