

Product datasheet for **MR205108**

Ccny (BC023321) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccny (BC023321) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccny
Synonyms:	1700025H17Rik; 3110050L10Rik; 4631402G10Rik; 5730405I09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205108 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACACAACCTTCGTGCTGCGTGTCCAGCCCCAAGCTCCGGAGGAATGCGCACTCGGGCTGG
AGTCCTACCGCCCGACACGGACCTCAGCCGTGAGGACTGGCTGCAATCTGCAGCACATCAGCGACCG
GGAAAACATCGACGATTTAAACATGGAATTCATCCTTCAGACCATCCTCGGGCCAGCACAATATTCCTC
AGCAAATCTCAGACAGACGTGAGAGAAAAACGCAAGAGTCTTTCATTAACCATCATCCTCCAGGGCAGA
CATCAAGGAAATACAGCTTTGCTCCACCATCTCCTAGATGACAGCACAGTCAGCCAGCCAAACCTCAA
GTACACCATCAAATGTGTAGCTTTGCGATATATTACCACATCAAAAACAGGGACCCAGATGGAAGGATG
CTCTTAGATATTTTTGATGAAAACCTCCACCCTTTTCGAAATCCGAAAGTGCCACCTGATTATGACAAA
ACAACCCAGAACAGAAGCAAATTTACCGGTTGCTTCGGACTCTTCAGTGCTGCTCAGCTGACAGCTGA
ATGTGCCATTGTCACCCTGGTATACCTTGAAAGGCTCTTGACATACGCAGAGATTGATATCTGTCCAGCC
AATTGGAAGCGCATTGTTCTAGGGGCAATCCTGCTGGCCTCTAAGGTGTGGGATGACCAAGCTGTGTGGA
ATGTGGATTACTGCCAGATCCTGAAAGACATCACAGTGGAGGACATGAATGAACTGGAGAGGCAGTTTCT
TGAATTGCTACAGTTTAAACATCAATGTTCCCTCCAGTGTGTATGCCAAGTATTATTTTATCTTCGTTCT
CTGGCAGAAGCAAACCTGAGCTTTCTCTGGAGCCCCTAAGCAGAGAGCGTGCCACCAAGCTTGAGG
CCATCTCTCGTCTGTGAGGACAAGTACAAGGACCTGAGGAAACCCATGAGGAAGCGTTTCAGCAAGTGC
TGACAACCTGATTCTGCCAAGGTGGTCTCCAGCCATCATCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205108 protein sequence
 Red=Cloning site Green=Tags(s)

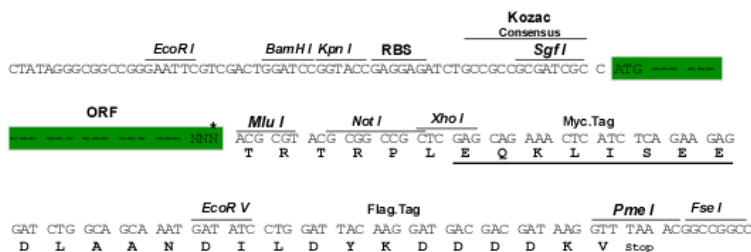
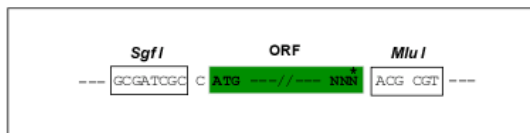
MGNTTSCCVSSPKLRRNAHSRLESYRPDTDL SREDTGCNLQHISDRENIDDLNMEFNPSDHPRASTIFL
 SKSQTDVREKRKSLFINHHPPGQTSRKYS SCSTIFLDDSTVSQPNLK YTIKCV ALAIYYHIKNRDPDGRM
 LLDIFDENLHPLSKSEVPPDYDKHNPEQKQIYRFVRTLFSAAQLTAECAIVTLVYLERLLTYAEIDICPA
 NWKRIVLGAILLASKVWDDQAVWNVDYQCILK DITVEDMNELERQFLELLQFNINVPSSVYAKYYFDLRS
 LAEANNLSFPLEPLSRERAHKLEAISRLCEDKYKDLRKP MRKRSASADNLILPRWSPAIIIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC023321

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: [BC023321](#), [AAH23321](#)

RefSeq Size: 2104 bp

RefSeq ORF: 1025 bp

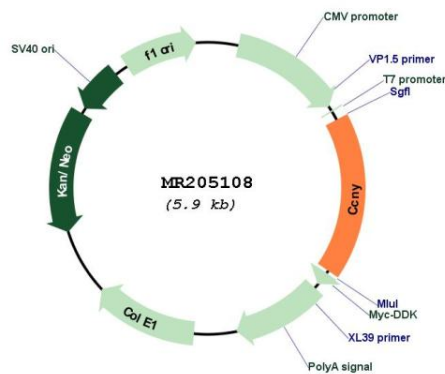
Locus ID: 67974

Cytogenetics: 18 A1

MW: 39.4 kDa

Gene Summary: Positive regulatory subunit of the cyclin-dependent kinase CDK14/PFTK1. Acts as a cell-cycle regulator of Wnt signaling pathway during G2/M phase by recruiting CDK14/PFTK1 to the plasma membrane and promoting phosphorylation of LRP6, leading to the activation of the Wnt signaling pathway (By similarity). Recruits CDK16 to the plasma membrane (By similarity). Positive regulatory subunit of the cyclin-dependent kinase CDK16.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205108