

Product datasheet for **MR204997**

Cdc123 (NM_133837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Cdc123
Synonyms:	AA959893; G431001I09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR204997 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAAGGAGCATGTTAGTCACTGTCAGTTCTCCGCGTGGTACCCACTTTTCCGAAGCCTTACCATCA
AGAGTGTCACTCTCCGCTTCTCAGAAATGTGAAAGACTATCTACTTGATGATGGGACTCTGGTGGTCTC
AGGAAGGGAAGATCCGCCAACATGCTCCAGTCAGACAGTGGTAACGAAGCAGAGGAAACACAGTGGTCC
GATGATGAGAGCACAGCCACTTACGGCACCAGAGTTTCTGAGTTCAACACTCAAGTCCAAGAAGCTA
TCAATTGCTGGGGGGTAGTGTCTTCCCTAAGCTTAAGTGGAGTGCCCAAGGGATGCGTACTGGATAGC
GATGAACAGTTCCTGAAGTGTAAACTCTCAGTGATATCTTCTGCTTTTCAAGAGTTCTGATTTTCATC
ACCCATGACTTCACACAGCCGTTTATTTCATTGCACTGATGACTCTCCAGACCCTTGATAGAGTACGAGC
TTGTTCTCCGAAAATGGTGTGAATTAATTCCTGGGGCTGAATTCGATGTTTTGTCAAAGAAAATAAGCT
TATTGGTATTTCTCAGAGGGATTACACACAATACTATGATCATATTTCTAAGCAAAAAGAAGAAATTTGC
AGATGCATTCAAGACTTTTCAAGGAACACCTACAGTATAAATCTTAGATGAAGACTTTGTGTTTCGATA
TATACAGGGACAGTAGGGGGAAGGTGTGGCTCATTGACTTTAATCCATTGGGGAGGTACACAGACTCACT
GTTGTTTACTTGGGAAGAGCTAACATCTGAGAACAACCTACGTGGTGAGGTCACTGAAGGAGATGCTCAG
GAGCAGGATTCTCCAGCCTTCGTTGCACAAACAGTGAAGTCACAGTGCAGCCAGCCCTATCTGAGCT
TCGGGCTGCCAAGGACTTTGTAGACCTTCCACCGGGGAGGATGCTCACAAGCTCATCGATTTCTTAA
GCTGAAAAGAAATGAGCAAGAGGACGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR204997 protein sequence
 Red=Cloning site Green=Tags(s)

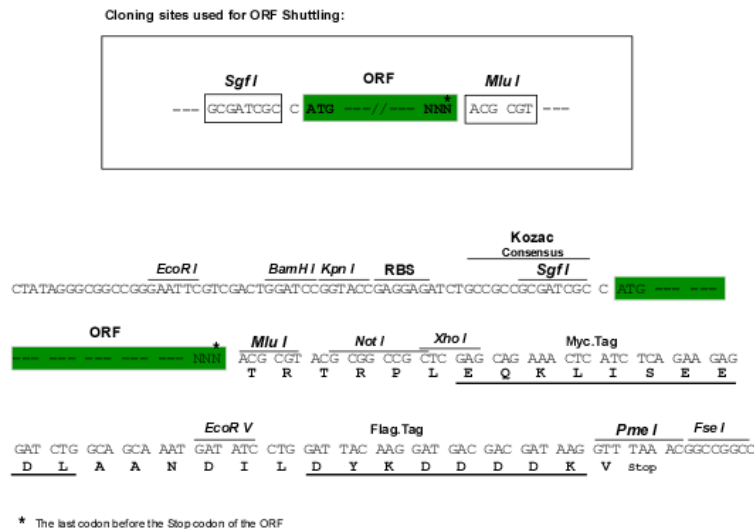
MKKEHVSHCQFSAWYPLFRSLTIKSVILPLPQNVDYLLDDGTLVVGREDPPTCSQSDSGNEAETQWS
 DDESTATLTAPEFPEFNTQVQEAISLGGSVFVKLNWSAPRDAYWIAMNSSLKCKTSLDIFLLFKSSDFI
 THDFTQPFIHCTDDSPDPCIEYELVLRKWCELIPGAEFRFCVKNKLIGISQRDYTQYYDHISKQKEEIC
 RCIQDFFKEHLQYKFLDEDFVFDIYRDSRGKVLIDFNPFGEVTDLSLLFTWEELTSENNLRGEVTEGDAQ
 EQDSPAFRCTNSEVTQPSPLYSGPLPKDFVDLSTGEDAHKLIDFLKLRNEQEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_133837

ORF Size:

1008 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_133837.5](#)

RefSeq Size: 1623 bp

RefSeq ORF: 1011 bp

Locus ID: 98828

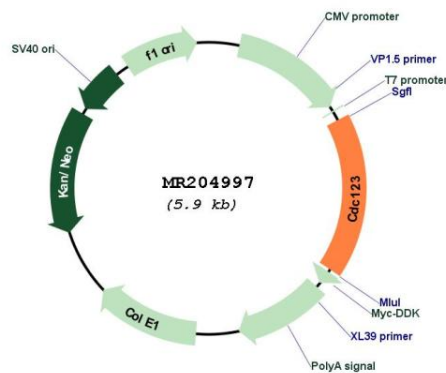
UniProt ID: [Q8CII2](#)

Cytogenetics: 2 A1

MW: 38.8 kDa

Gene Summary: Required for S phase entry of the cell cycle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204997