

Product datasheet for **MG204997**

Cdc123 (NM_133837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cdc123
Synonyms:	AA959893; G431001I09Rik
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG204997 representing NM_133837
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAAGGAGCATGTTAGTCACTGTCAGTTCTCCGCGTGGTACCCACTTTTCCGAAGCCTTACCATCA
AGAGTGTCACTCCCGCTTCTCAGAATGTGAAAGACTATCTACTTGATGATGGGACTCTGGTGGTCTC
AGGAAGGGAAGATCCGCCAACATGCTCCAGTCAGACAGTGGTAACGAAGCAGAGGAAACACAGTGGTCC
GATGATGAGAGCACAGCCACACTTACGGCACCAGAGTTTCTGAGTTCAACACTCAAGTCCAAGAAGCTA
TCAATTCGCTGGGGGGTAGTGTCTTCCCTAAGCTTAAGTGGAGTGCCCAAGGGATGCGTACTGGATAGC
GATGAACAGTTCCTGAAGTGAAAACCTCTCAGTGATATCTTCTGCTTTTCAAGAGTTCTGATTTTCATC
ACCCATGACTTCACACAGCCGTTTATTTCATTGCACTGATGACTCTCCAGACCCTTGATAGAGTACGAGC
TTGTTCTCCGAAAATGGTGTGAATTAATTCCTGGGGCTGAATTCGATGTTTTGTCAAAGAAAATAAGCT
TATTGGTATTTCTCAGAGGGATTACACACAATACTATGATCATATTTCTAAGCAAAAAGAAGAAATTTGC
AGATGCATTCAAGACTTTTCAAGGAACACCTACAGTATAAATCTTAGATGAAGACTTTGTGTTTCGATA
TATACAGGGACAGTAGGGGGAAGGTGTGGCTCATTGACTTTAATCCATTTGGGGAGGTACACAGACTCACT
GTTGTTTACTTGGGAAGAGCTAACATCTGAGAACAACCTACGTGGTGAGGTCACTGAAGGAGATGCTCAG
GAGCAGGATTCTCCAGCCTTCCGTTGCACAAACAGTGAAGTCACAGTGACGCCAGCCCCTATCTGAGCT
TCGGGCTGCCAAGGACTTTGTAGACCTTCCACCGGGGAGGATGCTCACAAGCTCATCGATTTCCTTAA
GCTGAAAAGAAATGAGCAAGAGGACGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG204997 representing NM_133837
Red=Cloning site Green=Tags(s)

MKKEHVSHCQFSAWYPLFRSLTIKSVILPLPQNVDYLLDDGTLVVGREDPPTCSQSDSGNEAETQWS
DDESTATLTAPEFPEFNTQVQEAINSLGGSVFPKLNWSAPRDAYWIAMNSSLKCKTSLDIFLLFKSSDFI
THDFTQPFIHCTDDSPDPCIEYELVLRKWCELIPGAEFRFCVKENKLIGISQRDYTQYYDHISKQKEEIC
RCIQDFFKEHLQYKFLDEDFVFDIYRDSRGKVLIDFNPFGEVTDSELLFTWEELTSENNLRGEVTEGDAQ
EQDSPAFRCTNSEVTVPSPYLSFGLPKDFVDLSTGEDAHKLIDFLKLRNEQEDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT

- - E E R V Stop

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: 1625 bp

RefSeq ORF: 1011 bp

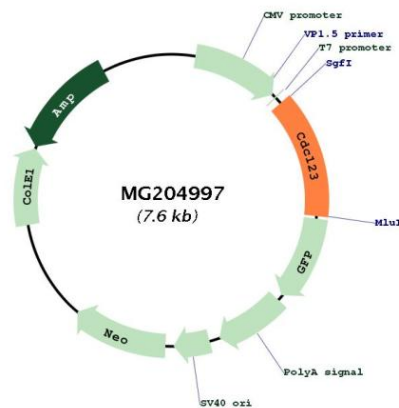
Locus ID: 98828

UniProt ID: [Q8CII2](#)

Cytogenetics: 2 A1

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

Product images:



Circular map for MG204997