

Product datasheet for **RC203311**

C10orf7 (CDC123) (NM_006023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf7 (CDC123) (NM_006023) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C10orf7
Synonyms:	C10orf7; D123
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203311 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAAGGAGCATGTGCTTCACTGCCAGTTCTCCGCGTGGTACCCGTTCTTCCGAGGCGTTACCATCA
AGAGTGTCACTTCCACTTCTCAGAATGTGAAGGATTATTTACTCGATGATGGAACCTCTGGTGGTTTC
AGGAAGGGATGATCCACCAACACATTCTCAGCCAGACAGTGATGATGAAGCAGAAGAAATACAGTGGTCT
GATGATGAGAACACAGCCACGCTTACGGCACCAGAATTTCTGAGTTTGCCACTAAAGTCCAGGAAGCTA
TCAATTCCTCGGGGCGAGTGTCTTTCCTAAGCTTAATTGGAGTGCCCAAGGGATGCGTATTGGATAGC
AATGAATAGTTCTCTGAAATGTAAAACCCCTCAGCGACATCTTTCTGCTTTTCAAGAGTTCGATTTCATC
ACTCGTGACTTCACTCAGCCGTTTATTCATTGTAAGTATGATGATTCTCCAGATCCATGTATAGAATATGAGC
TCGTTCTCCGAAAATGGTGTGAATTGATTCCTGGGGCTGAGTTTTCGATGTTTTGTCAAGGAAAACAAGCT
TATTGGTATTTCTCAAAGAGACTACACACAATACTATGATCATATTTCTAAACAAAAGGAAGAAATTCGC
AGATGCATACAAGACTTTTTCAAGAAACACATACAGTACAATTTCTAGATGAAGACTTTGTGTTTCGATA
TATACAGAGACAGTAGGGGAAGGTGTGGCTCATTGACTTTAATCCATTTGGTGAAGTTCACAGATTCACT
GCTGTTACCTGGGAAGAAGTATCTGAGAACAACTTAAACGGCGATTTTAGTGAAGTTGACGCTCAA
GAGCAGGATTTCCAGCTTTCCGTTGCACAAACAGTGAAGTGACAGTCCAGCCCAGCCCCATTTGAGTT
ACCGGCTACCCAAGGACTTTGTAGACCTCTACTGGGGAGGACGCTCACAAAGCTAATAGACTTCCTTAA
GCTGAAGAGAAATCAGCAGGAGGACGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203311 protein sequence
Red=Cloning site Green=Tags(s)

MKKEHVLHCQFSAWYPPFRGVTIKSVILPLPQNVKDYLLDDGTLVVSGRDDPPTHSQPDSDEAEIEIQWS
 DDENTATLTAPEFPEFATKVQEAINSLGGSVFPKLNWSAPRDAYWIAMNSLKCKTSLDIFLLFKSSDFI
 TRDFTQPFIHCTDDSPDPCIEYELVLRKWCELIPGAEFRFCVKENKLIGISQRDYTYQYDHIKQKKEIR
 RCIQDFFKKHIQYKFLDEDFVFDIYRDSRGKVWLIIDFNPFGEVTDLLFTWEELISENNLNGDFSEVDAQ
 EQDSPAFRCTNSEVTVQPSPYLSYRLPKDFVDLSTGEDAHKLIDFLKLRNQEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6428_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006023

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_006023.3](#)

RefSeq Size: 1566 bp

RefSeq ORF: 1011 bp

Locus ID: 8872

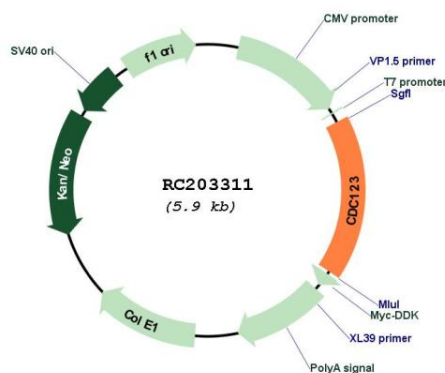
UniProt ID: [O75794](#)

Cytogenetics: 10p14-p13

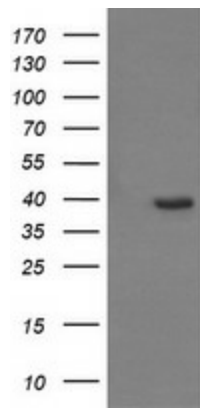
MW: 39.1 kDa

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

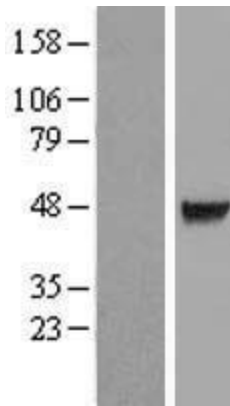
Product images:



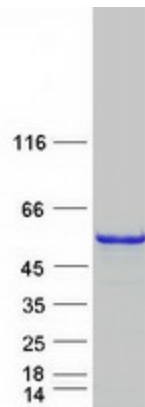
Circular map for RC203311



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CDC123 (Cat# RC203311, 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-CDC123 (Cat# [TA505652]). Positive lysates [LY416883] (100ug) and [LC416883] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203311 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDC123 protein (Cat# [TP303311]). The protein was produced from HEK293T cells transfected with CDC123 cDNA clone (Cat# RC203311) using MegaTran 2.0 (Cat# [TT210002]).