

Product datasheet for **RR200310**

Sept7 (NM_022616) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept7 (NM_022616) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sept7
Synonyms:	Cdc10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR200310 representing NM_022616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGTCAGTGCAGATCCGCTGCTGCTGAGGAGAGGAGCGTCAACTGCAGCACCATGGCTCAACCGA
 AGAACCTTGAGGGCTATGTGGGATTTGCCAACCTCCCAAATCAAGTGACAGAAAATCGGTGAAAAGAGG
 ATTTGAATTCACTCTTATGGTAGTAGGTGAATCTGGACTGGGAAAAGTCGACATTAATCAACTCATTATTC
 CTCACAGATTTGTATTCTCCAGAGTATCCAGGACCTTCTCATAGAATCAAAAAGACTGTTAGGTGGAGC
 AATCCAAAGTTTTAATCAAAGAAGGTGGCGTTCAGTTGCTGCTGACGATAGTTGATACTCCGGGATTTGG
 AGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAAATTTGAAGATTAC
 TTAATGCAGAATCTCGAGTGAACAGACGACAGATGCCTGATAACAGGGTGCAGTGTGTTTATACTTCA
 TTGCTCCTTCAGGACATGGACTTAAACCATTGGATATTGAGTTTATGAAACGTTTGCATGAAAAAGTGAA
 TATCATTCTTTAATTGCCAAAGCAGACACACTTACACCAGAGGAATGCCAACAGTTTAAAAAGCAGATA
 ATGAAAGAAATCCAAGAACATAAAATTAATATATGAATTTCCAGAAACGGATGATGAAGAAGAGAATA
 AGCTGGTTAAGAAGATAAAGGACCGTTTACCTCTTGCTGTGGTGGTGTAGTAACTATCATTGAAGTTAA
 TGGCAAAGAGTCAGAGGAAGGCAGTATCCTTGGGGTGTGGCTGAAGTTGAAAATGGTGAGCATTGTGAT
 TTTACAATTCTAAGAAATATGTTGATACGAACACACATGCAGGACTTGAAAGATGTTACCAATAACGTAC
 ACTATGAGAACTACAGAAGCAGAAAAGTGCAGCAGTACCTACAATGGAGTAGATAACAACAAGAACAA
 AGGGCAACTTACCAAGAGCCCTCTGGCGCAGATGGAGGAGGAGAGAAGGGAGCACGTGGCCAAGATGAAG
 AAGATGGAGATGGAGATGGAGCAGGTGTTTGGATGAAGTCAAGGAAAAAGTTCAAAGCTGAAGGACT
 CTGAAGCCGAGCTCCAGCGCGCCATGAGCAAATGAAAAAGAATTTAGAAGCACAGCACAAGAATTAGA
 GGAAAAACGTCGTCAGTTTGAAGAAGAAAAAGCAAACCTGGGAAGCTCAACACGATTTTTAGAGCAACAG
 AATTCTTCAAGAACCTTGAAAAAGAACAAGAAGAAAGGCAAGATCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200310 representing NM_022616
 Red=Cloning site Green=Tags(s)

MSVSARSAAEERSVNCSTMAQPKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESLKGKSTLINSFL
 LTDLYSPEYPGPSHRIKKTIVQVEQSKVL IKEGGVQLLLTIVDTPGFDAVDNSNCWQPVIDYIDSKFEDY
 LNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNIIPLIKADLTPEECQQFKKQI
 MKEIQEHKIKIYEFPETDDEENKLVKIKDRLPLAVVGSNTIIEVNGKRVGRQYPWGVAEVENGEHCD
 FTILRNMLIRTHMQDLKDVNTNNVHYENYRSRKLAAVTYNGVDNNKNGQLTKSPLAQMEERREHVAKMK
 KMEMEQVFEMKVKEKVQKLKDEAELQRRHEQMKNLEAQHKELEEKRRQFEEKANWEAQQRILEQQ
 NSSRTLEKNKKKGIKIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_022616

ORF Size: 1308 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

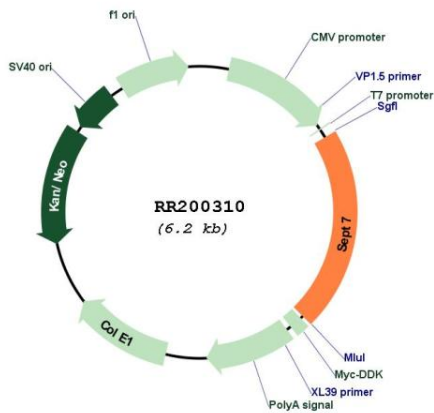
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_022616.2](#), [NP_072138.2](#)

RefSeq Size: 2459 bp
 RefSeq ORF: 1311 bp
 Locus ID: 64551
 UniProt ID: [Q9WVC0](#)
 Cytogenetics: 8q13
 MW: 50.6 kDa

Gene Summary: human homolog is highly homologous to the yeast protein which is a structural component of the 10 nm filament and is essential for cytokinesis [RGD, Feb 2006]

Product images:



Circular map for RR200310