

Product datasheet for **MR229904**

Sept7 (NM_001205367) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept7 (NM_001205367) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sept7
Synonyms:	Cdc10; E430034N22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229904 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTCAGTGCAGATCCGCTGCTGCCGAGGAGAGGAGCGTCAACTGCGGCACCATGGCTCAACCGA
 AGAACCTTGAGGGCTATGTGGGCTTGCCAACCTCCCAAATCAAGTGACAGAAAATCCGTGAAAAGAGG
 ATTTGAATCACTCTTATGGTAGTAGGTGAATCTGGACTGGGAAAAGTCGACATTAATCAACTCATTATTC
 CTCACAGATTTGTATTCTCCAGAGTATCCAGGACCTTCTCATAGAATCAAAAAGACTGTACAGGTGGAGC
 AATCCAAAGTTTTAATCAAAGAAGGTGGTTCAGTTGCTGCTGACAATAGTTGATACTCCAGGATTTGG
 AGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAAATTTGAAGATTAC
 TTAATGCAGAATCTCGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGTGTTTATACTTCA
 TTGCTCCTTCAGGACATGGACTTAAACCATTGGACATTGAGTTTATGAAACGTTTGCATGAAAAAGTGAA
 TATCATCCCATTAATTGCCAAAGCAGACACACTTACACCAGAGGAATGCCAACAGTTTAAAAAGCAGATA
 ATGAAAGAAATCAAGAACATAAAATTAATATGAATTTCCAGAAACAGATGATGAAGAAGAGAATA
 AACTGGTTAAGAAGATAAAGGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATACTATCATTGAAGTTAA
 TGGCAAAGAGTCAGAGGAAGGCAGTATCCTTGGGGTGTGGCTGAAGTTGAAAATGGTGAACATTGTGAT
 TTCACAATTCTAAGAAATATGTTGATAAGAACACATATGCAGGACTTGAAAGATGTTACCAATAACGTAC
 ACTATGAGAACTACAGAAGCAGAAAGCTAGCAGCAGTACTTACAATGGAGTGGATAACAACAAGAACAA
 AGGGCAGCTTACCAAGAGCCCTCTGGCACAGATGGAAGAAGAAAGGGAACATGTAGCCAAAATGAAG
 AAGATGGAGATGGAGATGGAACAGGTGTTTGAAGTGAAGTCAAAGAAAAAGTTCAAAAAGTGAAGGACT
 CTGAAGCAGAGCTCCAGCGCGCCATGAGCAAATGAAAAAGAAATTTAGAAGCACAGCACAAGAATTAGA
 GGAAAAACGTCGTCAGTTTGAAGAAGAAAAAGGCAAACTGGGAAGCTCAACAGCGTATTTTAGAGCAACAG
 AACTCTCAAGAACCTTGAAAAAGAAAGAAGAAAGGCAAGATCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229904 protein sequence
 Red=Cloning site Green=Tags(s)

MSVSARSAAEERSVNCGTMAQPKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESLKGKSTLINSFL
 LTDLYSPEYPGPSHRIKKTIVQVEQSKVL IKEGGVQLLLTIVDTPGFDAVDNSNCWQPVIDYIDSKFEDY
 LNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNI IPLIAKADLTPEECQQFKKQI
 MKEIQEHKIKIYEFPETDDEENKLVKKIKDRLPLAVVGSNTIIEVNGKRVGRQYPWGVAEVENGEHCD
 FTILRNMLIRTHMQDLKDVNTNNVHYENYRSRKLAAVTYNGVDNKNKGQLTKSPLAQMEERREHVAKMK
 KMEMEQVFEMKVKEKVQKLKDEAELQRRHEQMKNLEAQHKELEEKRRQFEEKANWEAQQRILEQQ
 NSSRTLEKNKKKGIKIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

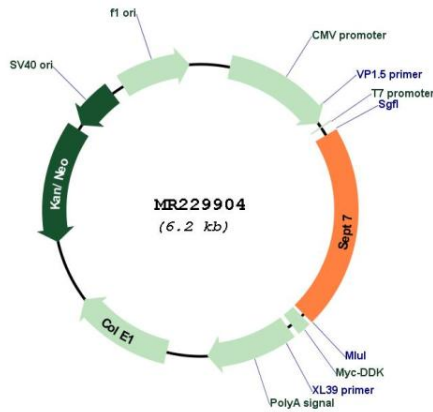
Restriction Sites:

SgfI-MluI

MW: 50.5 kDa

Gene Summary: Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Required for normal progress through mitosis. Involved in cytokinesis. Required for normal association of CENPE with the kinetochore. Plays a role in ciliogenesis and collective cell movements. Forms a filamentous structure with SEPTIN12, SEPTIN6, SEPTIN2 and probably SEPTIN4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229904