

Product datasheet for **MR220081**

Sept6 (NM_001177323) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept6 (NM_001177323) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sept6
Synonyms:	2810035H17Rik; C920001C06Rik; mKIAA0128; Sep6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220081 representing NM_001177323
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGGCCGATATAGCTCGCCAGGGCGAAGATTGTCGAACTGTCCCCTGGCTGGACATGTGGGGT
 TCGACAGCTTGCCTGACCAGCTGGTGAATAAGTCAGTCAGCCAGGCTTCTGCTTCAACATCCTGTGCGT
 GGGGAGACAGGTTTGGGCAAGTCCACGCTCATGGATACCCTGTTTAACACCAAGTTTGAAGGGAGCCA
 GCGACCCACACAGCCAGGGGTTCAAGTCCAATACCTACGACCTCCAGGAGAGCAACGTGGGGT
 TGAAACTCACAATTGTGAGCACTGTAGGCTTTGGGGATCAGATCAACAAGGAGGACAGCTACAAGCCAT
 CGTGGAATTCATTGATGCTCAGTTTGGGCTACCTACAAGAGGAGCTGAAGATCCGAAGAGTACTGCAC
 TCCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTCATTGCCCGACAGGACATTGCTTAAGTCTC
 TGGACCTAGTGACCATGAAGAAGCTGGATAGTAAGGTGAACATCATTCCCCTATTGCCAAGTCAGATGC
 CATTCTAAGAGTGAGCTGGCAAAGTTCAGATCAAAATCACCAGCGAACTTGTGAGCAATGGAGTCCAG
 ATCTATCAGTTCCCCACAGACGATGAGTCGGTGAGCGAGATCAATGGAACCATGAATGCCACCTGCCGT
 TTGCTGTTGTTGGCAGCACAGAAGAAGTGAAGATAGGCAACAAGATGATCGGGGCTCGGCAGTATCCTTG
 GGGACTGTGCAGTTGAAAACGAGGCTCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTCGGGTC
 AACATGGAGGATCTGCGGGAGCAGACCCACGCCCGGCACTATGAATTGTACCGCCGCTGTAAAGCTGGAGG
 AGATGGGCTTCAAGGACACCGACCTGACAGCAAAACATTCAGTTTGCAGGAGACATATGAGGCAAAAGAG
 AAATGAGTTCTTGGGGAGCTCCAGAAGAAAGAAGAGGAGATGAGGCAGATGTTTGTCCAGAGAGTCAA
 GAGAAAGAAGCGGAGCTCAAGGAGGCTGAAAAGAGCTGCATGAGAAATTTGACCGTCTGAAGAACTGC
 ACCAGGAAGAGAAGAAGAAGCTGGAGGATAAGAAGAAATGTCTGGATGAGGAAATGAACGCCTTCAAGCA
 GAGAAAGGCGGACGCTGAGCTGCTCAGGCTCTCAGGCTGCGGGCTCACAGACTCTGAAAAGG
 GACAAAGAGAAGAAGAACTTTTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220081 representing NM_001177323
 Red=Cloning site Green=Tags(s)

MAAADIAHQGEDCRTVPLAGHVGFDSLDPQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEP
 ATHTQPGVQLQSNTYDLQESNVGLKLTIVSTVGFQDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLH
 SYHDSRIHVCLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPVIAKSDAISKSELAKFKIKITSELVSNVQ
 IYQFPTDDESSEINGTMNAHLPAVVGSTEEVKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIRV
 NMEDLREQTHARHYELYRCKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEMRQMFVQRVK
 EKEAELKEAEKELHEKFDRLKKLHQEEKKLEDKCKLDEEMNAFKQRKAAAEELLQSQSQAGGSQTLKR
 DKEKKNFF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001177323

ORF Size: 1284 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.

RefSeq: [NM_001177323.2](#), [NP_001170794.1](#)

RefSeq Size: 3547 bp

RefSeq ORF: 1287 bp

Locus ID: 56526

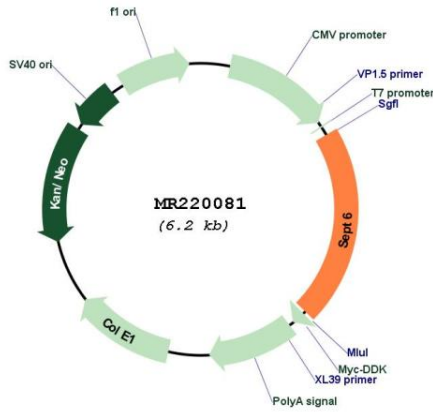
UniProt ID: [Q9R1T4](#)

Cytogenetics: X A3.3

MW: 49.4 kDa

Gene Summary: Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Involved in cytokinesis. 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 MR220081