

Product datasheet for **MC227693**

Sept7 (NM_001205367) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sept7 (NM_001205367) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sept7
Synonyms: Cdc10; E430034N22
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227693 representing NM_001205367
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGTCAGTGCAGATCCGCTGCTGCCGAGGAGAGGAGCGTCAACTGCGGCACCATGGCTCAACCGA
 AGAACCTTGAGGGCTATGTGGGCTTTGCCAACCTCCCAAATCAAGTGTACAGAAAATCCGTGAAAAGAGG
 ATTTGAATTCACCTTATGGTAGTAGGTGAATCTGGACTGGGAAAGTCGACATTAATCAACTCATTATTC
 CTCACAGATTTGTATTCTCCAGAGTATCCAGGACCTTCTCATAGAATCAAAAAGACTGTACAGGTGGAGC
 AATCCAAAGTTTTAATCAAGAAGGTGGTGTTCAGTTGCTGCTGACAATAGTTGATACTCCAGGATTTGG
 AGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAAATTTGAAGATTAC
 TAAATGCAGAATCTCGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGTGTTTATACTTCA
 TTGCTCCTTCAGGACATGGACTTAAACCATTGGACATTGAGTTTATGAAACGTTTGCATGAAAAAGTGAA
 TATCATCCCATAATTGCCAAAGCAGACACACTTACACCAGAGGAATGCCAACAGTTTAAAAAGCAGATA
 ATGAAAGAAATCAAGAACATAAAATTTAAATATATGAATTTCCAGAAACAGATGATGAAGAAGAGAATA
 AACTGGTTAAGAAGATAAAGGACCGTTTACCTCTTGGTGTGGTGAAGTTGAAAATGGTGAACATTGTGAT
 TGGCAAAAGAGTCAGAGGAAGGCAGTATCCTTGGGGTGTGGCTGAAGTTGAAAATGGTGAACATTGTGAT
 TTCACAATTCTAAGAAATATGTTGATAAGAACACATATGCAGGACTTGAAAGATGTTACCAATAACGTAC
 ACTATGAGAACTACAGAAGCAGAAAGCTAGCAGCAGTGAATACAATGGAGTGGATAACAACAAGAACA
 AGGGCAGCTTACCAAGAGCCCTCTGGCACAGATGGAAGAAGAAAGGGAACATGTAGCCAAAATGAAG
 AAGATGGAGATGGAGATGGAACAGGTGTTTGAAGTGAAGTCAAAGAAAAAGTTCAAAAAGTGAAGGACT
 CTGAAGCAGAGCTCCAGCGGCCATGAGCAAATGAAAAAGAATTTAGAAGCACAGCACAAAGAATTAGA
 GGAAAAACGTCGTCAGTTTGAAGAAGAAAAGGCAAAGTGGGAAGCTCAACAGCGTATTTTAGAGCAACAG
 AACTCTCAAGAACCTTGAAAAGAACAAGAAGAAGGCAAGATCTTT**TA**A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001205367
Insert Size:	1311 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001205367.1</u> , <u>NP_001192296.1</u>
RefSeq Size:	2530 bp
RefSeq ORF:	1311 bp
Locus ID:	235072
UniProt ID:	<u>O55131</u>
Cytogenetics:	9 A4
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]