

Product datasheet for **MC227381**

Sept4 (NM_001284392) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sept4 (NM_001284392) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sept4
Synonyms: ARTS; Bh5; OTTMUSG00000001265; Pnutl2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227381 representing NM_001284392
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCATTCACTGGGATGGCAAGGGAAGCTGTCCCCGAGGACGGGACTGAAGCTGGGGATGACAAGG
 AGTATGTGGGCTTTGCAACCCCTCCCAATCAAGTCCACAGGAAGTCTGTGAAGAAAGGCTTTGACTTTAC
 ACTCATGGTGGCAGGAGAATCTGGTCTGGGTAATCCACTCTTGTCAACAGCCTTCTCCTCACTGACTTG
 TACCGGGATCGGAAACTGCTGGGCGCCGAAGAGCGGATCATGCAAACCGTGGAGATTACTAAGCACGCAG
 TGGATATAGAAGAGAAGGGAGTGAGGCTGCGGCTCACCATTGTGGACACTCCAGGATTTGGGGATGCAGT
 CAACAACACAGAGTGCTGGAAGCCTGTGGCCGAATACATCGACCAGCAGTTTGAGCAGTACTTCCGAGAC
 GAGAGTGGCCTGAACCGCAAGAACATCCAGGACAACCGGGTGCCTGCTGCCTGTACTTCATCTCCCGT
 TTGGCCACGGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCATCAGCGGGTCAACATTGTGCC
 TATCTTGGCTAAGGCGGACACTGACGCCTCCTGAAGTGGACCGAAAGAAATGCAAAATCCGGGAGGAG
 ATCGAGCACTTTGAATCAAGATCTATCAGTCCAGACTGTGATTCCGATGAGGACGAGGACTTCAAAT
 TACAGGACCAAGCCCTAAAGGAAAGCATCCCATTGCGGTGATTGGCAGCAACACTGTGGTAGAAGCCAG
 GGGCGGAGAGTTTCGAGGCCCTCTACCCTTGGGCATCGTGAAGTGGAAAACCCAGGTCAGTGCAGC
 TTTGTCAAGTTGAGGACGATGCTGGTGCCTACCCACATGCAGGACCTAAAGGATGTGACCCGAGAGACAC
 ACTACGAGAACTACAGGGCACAGTGTATCCAGAGCATGACCCGGTAGTGTGAGGAACCGGAATCGCAA
 CAAACTGACAAGAGAGAGTGGTACTGACTTCCCTATCCCTGCTGTCCCACCAGGGACAGATCCAGAACT
 GAGAAGCTAATCCGGGAGAAAGACGAAGAGCTGCGCGGATGCAGGAGATGTTACACAAAATCCAAAGAC
 AGATGAAGGAGACTCAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001284392
Insert Size:	1140 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_001284392.1</u> , <u>NP_001271321.1</u>
RefSeq Size:	1426 bp
RefSeq ORF:	1140 bp
Locus ID:	18952
UniProt ID:	<u>P28661</u>
Cytogenetics:	11 C
Gene Summary:	<p>Filament-forming cytoskeletal GTPase. 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). May play a role in cytokinesis (Potential). May play a role in platelet secretion (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>