

## Product datasheet for RN216460

### Sept12 (NM\_001100865) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sept12 (NM\_001100865) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sept12  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >RN216460 representing NM\_001100865  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATGAGAGGGCAACACCCCTCTCCCTGCTCTTCGAGGCCCTCCAGTCCCAGGACCCACCCCTGTGAGA  
 TGTTTGGTCTGTGGCATTGAGGCTGTCTAGACCAGCTGAGGATCAAGGCTATGAAGACTGGGTTTGA  
 GTTCAATATCATGGTGGTGGGCAGAGTGGGCTAGGCAAGTCCACCATGGTGAACACATTGTTCAAGTCC  
 AAAGTATGGCAGTCACCTGCACCCAACCTGGATGTACCCATGCCACAAACATTGGAGCTGCACCTGTGA  
 CCCACGTACCGAGGAGAAGGGACTGAAGCTGAAGCTGACAGTGACAGATACACCTGGCTTTGGAGACCA  
 GATCAACAATGACAAGTGTGGGACCCTATCCTGAGTTACATCAACCAACAGTACGAGCAGTATCTACAG  
 GAGGAGCTTCTCATACCCGCCAGCGCCACATCCCCGACACCCGTGTGCACTGCTGCGTGTACTTTGTGC  
 CACCTACTGGCCACTGCCTACGGCCCTGGACATTGAGTTCCTGCGACGGCTGTGCCGGACCGTGAATGT  
 GGTGCCTGTGATCGCCGGGCTGACAGCCTGACCATTGAAGAACGAGATGCCTTCAGGAGCAGGATTCAG  
 CAAAACCTGAAAAATCACTGCATCGATGTGTACCCGCAGCAGTGTTCGACGAGGACATCAATGACAGAC  
 TCCTCAATAGTAAGATCCGGGAGCAGATCCCTTTGCTGTGGTGGGGCTGACCGAGAGCAGATAGTGAA  
 CGGGAGATGTGCTGGCCGGGAAGACCAATGGGGCATCATCGAAGTGGAGAACATGGCGCACTGTGAG  
 TTTCTTCTCTGAGAGACCTGCTCATCCGCTCCCATCTCCAGGACCTGAAGGACATCACCCACAATGTAC  
 ACTACGAGAACTACCGGTCTCAGACTCAATGAGAGCCAGTGTGCCCCGGGGCCAGGCTGGGTGAA  
 CCTGGCCCCAGCCTCCCCTGGACAGCTGATGGTCCAGGACCAGAAAAGGTCCGAAAGCGATCTAAGGAT  
 CCCAGGGATGATGAGTGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001100865



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<b>Insert Size:</b>	1071 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001100865.1</a></u> , <u><a href="#">NP_001094335.1</a></u>
<b>RefSeq Size:</b>	1320 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	363542
<b>UniProt ID:</b>	<u><a href="#">Q4V8G5</a></u>
<b>Cytogenetics:</b>	10q12
<b>Gene Summary:</b>	Filament-forming cytoskeletal GTPase (By similarity). May play a role in cytokinesis (Potential). Involved in spermatogenesis. Involved in the morphogenesis of sperm heads and the elongation of sperm tails probably implicating the association with alpha- and beta-tubulins. Forms a filamentous structure with SEPTIN7, 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]