

## Product datasheet for **MG206973**

### Sept7 (NM\_009859) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sept7 (NM_009859) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sept7
Synonyms:	Cdc10; E430034N22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206973 representing NM_009859 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGTCAGTGCAGATCCGCTGCTGCCGAGGAGAGGAGCGTCAACTGCGGCACCATGGCTCAACCGA  
AGAACCTTGAGGGCTATGTGGCTTTGCCAACCTCCCAAATCAAGTGTACAGAAAATCCGTGAAAAGAGG  
ATTTGAATTCACCTCTTATGGTAGTAGGTGAATCTGGACTGGGAAAGTCGACATTAATCAACTCATTATTC  
CTCACAGATTTGTATTCTCCAGAGTATCCAGGACCTTCTCATAGAATCAAAAAGACTGTACAGGTGGAGC  
AATCCAAAGTTTTAATCAAAGAAGTGGTGTTCAGTTGCTGCTGACAATAGTTGATACTCCAGGATTTGG  
AGATGCAGTGGATAAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAAATTTGAAGATTAC  
TTAAATGCAGAATCTCGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGGTTTATACTTCA  
TTGCTCCTTCAGGACATGGACTTAAACCATTGGACATTGAGTTTATGAAACGTTTGCATGAAAAAGTGAA  
TATCATCCCATTAATTGCCAAAGCAGACACACTTACACCAGAGGAATGCCAACAGTTTAAAAAGCAGATA  
ATGAAAGAAATCAAGAACATAAAATTAATAATGAATTTCCAGAAACAGATGATGAAGAAGAGAATA  
AACTGGTTAAGAAGATAAAGGACCGTTTACCTCTTGTGTGGTAGGTAGTAACTATCATTGAAGTTAA  
TGGCAAAAGAGTCAGAGGAAGGCAGTATCCTTGGGGTGTGGCTGAAAGTTGAAAATGGTGAACATTGTGAT  
TTCACAATTCTAAGAAATATGTTGATAAGAACACATATGCAGGACTTGAAGATGTTACCAATAACGTAC  
ACTATGAGAACTACAGAAGCAGAAAGCTAGCAGCAGTGACTTACAATGGAGTGGATAACAACAAGAACA  
AGGGCAGCTTACCAAGAGCCCTCTGGCAGAGATGGAAGAAGAAAGAAAGGGAACATGTAGCCAAAATGAAG  
AAGATGGAGATGGAGATGGAACAGGTGTTTGAGATGAAGGTCAAAGAAAAAGTTCAAAAAGTGAAGGACT  
CTGAAGCAGAGCTCCAGCGGCCATGAGCAAATGAAAAAGAAATTTAGAAGCACAGCACAAAAGAAATTAGA  
GGAAAAACGTCGTCAGTTTGAAGAAGAAAAGGCAAAGTGGGAAGCTCAACAGCGTATTTTAGAGCAACAG  
AACTCTCAAGAACCTTGGAAAAGAACAAGAAGAAAGGCAAGATCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG206973 representing NM\_009859  
 Red=Cloning site Green=Tags(s)

MSVSARSAAAEERSVNCGTMAQPKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESGLGKSTLINSFL  
 LTDLYSPEYPGPSHRIKKTQVEQSKVLIKEGGVQLLLTIVDTPGFDAVDNSNCWQPVIDYIDSKFEDY  
 LNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNIIPLIADLTPEECQQFKKQI  
 MKEIQEHKIKIYEFPETDDEEENKLVKKIKDRPLAVVGSNTIIEVNGKRVGRQYPWGVAEVENGEHCD  
 FTILRNMLIRTHMQDLKDVNTNNVHYENYRSRKLAAVTYNGVDNNKNGQLTKSPLAQMEEERREHVAKMK  
 KMEMEQVFEMKVKEKVQKLKQDSEAEQRREHMKNLEAQHKELEEKRRQFEEKANWEAQQRILEQQ  
 NSSRTLEKNKKKGKIF

TRTRPLE - GFP Tag - V

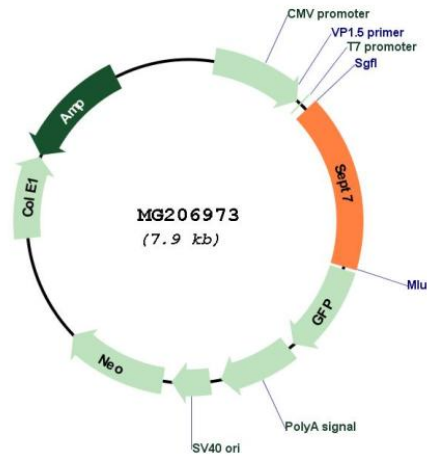
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_009859

<b>ORF Size:</b>	1311 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_009859.1</a>
<b>RefSeq Size:</b>	2398 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	235072
<b>Cytogenetics:</b>	9 A4
<b>Gene Summary:</b>	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]