

## Product datasheet for **MC220908**

### **Smg5 (BC100408) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smg5 (BC100408) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smg5
Synonyms:	MGC30464, MGC56792, mKIAA1089
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC100408  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCCAAGGCCCTCTCCAGGGGAGAGCAGCGAACCCGAGGCAAAGGTCTCCACACCAAGCGGCTTT  
 ACCGGGCTGTGGTGGAGGCTGTGCATCGGCTAGATCTCATCCTTTGCAACAAAGCTGCTTATCAGGAAGT  
 GTTCAAACCAGAGAACGTTAGCCTGAGGAACAAGCTACGAGAGCTCTGTGTGAAGCTTATGTTCTTGCAT  
 CCAGTAGACTATGGGAGGAGGGCTGAGGAACTGCTGTGGAGAAAGGTATACTATGAAGTTATCCAACCTTA  
 TCAAGACTAACAAAAAGCACATCCACAGTCGGAGCACCTTGGAAATGTGCCTACAGGACTCATCTGGTCGC  
 TGGCATTGGCTTCTACCAGCATCTCTTCTATATCCAGTCCCCTACCAGCTGGAACCTACAGTGTCTGC  
 ATCGACTGGACTCAGTCACCGATCCCCTCATGGGATTCAAGAAGCCAGTATCTGCTTCAGGAAAGGAGA  
 TGGATTGGGCACAAATGGCTTGGCACCAGTGCCTGGTGTACCTGGGGATCTGTCACGCTATCAGAAATGA  
 GTTGGCTGGTGTGGACACCGAGCTGCTAGCTGAGAGATTCTACTATCAAGCCTTGTGAGTGGCTCCCGAG  
 ATTGGAATGCCCTTCAATCAGCTGGGTACCCTTGCAAGCAGCAAGTATTACAACGTGGAAGCCATGTATT  
 GCTACTTGCCTGCATCCAGTCGGAAGTGTCTTTGAGGGAGCCTATGGGAACCTCAAGAGACTATATGA  
 CAAGGCAGCCAAAATGTACCACCAAGTTGAAGAAGTCTGAGACCAGGAAGCTCTCCCTAGCAAAAAGCGA  
 TGCAAAGACATTAAGAGGTTGTTGGTGAACCTCATGTACCTACAAAGCCTGTTACAGCCAAAAGTAGCT  
 CCGTGGACTCAGAACTGACCTCACTCTGCCAGTCAGTCTAGAGGATTTCAACCTCTGCCTTCTACCT  
 GCCCTCTCACCAACCTTGGTCTAACCAACGAGGATGAGGAGGAGTGTGAAAGTGGATATGCTTTCCTC  
 CCCGACCTGCTCATCTTTCAGATGGCCATCATCTGCCTCATGGGTGTGCACAGTTAAAGAGAGCAGGAT  
 CCAAGCTTATAGTGCAGCCATTGCTTTACCCCTGGCCCTTTTTCCACCTTATCAATCATGTCAACAT  
 ACGGCTGCAGGCCGAACTGGAAGAGGGCGAGAACCCTGTCTCAGCTTTTTCAGAGTGATGGCACAGATGAA  
 CCAGAGTCAAAAAGACTAGAAAAAGAGGAGCCAGAGCCTGAGCCTCCCACTGTGGTACCCCAAGCTG  
 ATGAGGGCAGAAAGAGCCGTAAGCACTCCGACTCTTGTCTACGTCTGCGCCGCCACCATCTCTCC  
 TAAAGCTGGTGTGACAGTGACCTGAGTGGGTTTTGAATCTGACTCTAGCCACGACTCTGCCAGGCC  
 AGTGACGGCTCAGACAGTGGCTCTGATAAGAGCCTGGAAGGCAGGGGCACTGCTTTTGTGACAGAGACAG  
 ACTCAGAAATGAACAGCCAGGAGTCCCGGTCAGACCTGGAAGATATGGAGGATGAGGAGGGGACAAGATC  
 TCCAGCCCAGGAGCCCCCTCAGCCAGATCAGAGGTTCCAGATTCCTCAATGGCCCCCTGGGCCCACT  
 GAAGCAAGCATTGCCAGCAATTTACAAGCCATGTCCACCCAGATGTTCCAGACCAAGCGTCTTCCGAC  
 TGGCTCCCACTTTTCAGCAACCTGCTCCTGCAGCCACCACGGAACCTAACAGTGTGGCCAGTCACAGGCC  
 TTGTGTCAACGGGGATATGGACAAGCCTTTAGAACCAGGTGCGTGGGTGCATGAGAGTCCACCTTCTCGC  
 AGAGTAACCTCACCTTGGGGTTTTGCTGTCACTGTGGAATCCTTGTCTGTGCACGTAATTTCCAG  
 CCTCCAGAACGTTTGTCTTGTCTGCTTTTCCACTGCAGACTGCTCCAGCTTCACTCTCTCTCTCTCA  
 TATTGGAGGTTGACTTCTTCCCTCATGGCATCCAGTTCCTGAAGGCTCCAGAAGCTGGGCATAATG  
 TTCCTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** BC100408

**Insert Size:** 2109 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).

<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="#">BC100408</a></u> , <u><a href="#">AAI00409</a></u>
<b>RefSeq Size:</b>	3121 bp
<b>RefSeq ORF:</b>	2108 bp
<b>Locus ID:</b>	229512
<b>Cytogenetics:</b>	3 F1
<b>Gene Summary:</b>	Plays a role in nonsense-mediated mRNA decay. Does not have RNase activity by itself. Promotes dephosphorylation of UPF1. Together with SMG7 is thought provide a link to the mRNA degradation machinery involving exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation. Necessary for TERT activity (By similarity).[UniProtKB/Swiss-Prot Function]