

## Product datasheet for RN217509

### Smg7 (NM\_001191549) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Smg7 (NM\_001191549) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Smg7  
**Synonyms:** RGD1310761  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >RN217509 representing NM\_001191549  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGACCGAAAACCTTGAATCAGAGGAGCATCTGAAATCAAGTAATATTAGGCAGGCAGAAGTCTGA  
 AGGCTGAAATGACAGATTCTAAGCTGGTCCAGCTGAGGTCTGGACATCCAGGCAAGCTCTGCAGGACTT  
 GTACCAGAAAATGCTGGTACTGATCTGGAGTATGCTTTAGACAAGAAGGTAGAGCAGGACCTCTGGAAT  
 CATGCCTTAAAGAATCAGATCACAACACTACAAGGCCAAGCAAGAATCGAGCAAACCAATCGGAGTG  
 AAGTCCAGGCAAACCTTTCTCTGTTCTAGAGGCAGCTAGCGGCTCTATACTCAGTTATTACAGGAACT  
 GTGTACGGTGTTAATGTAGATTTGCCATGCCGTGGAAGTCTCCAGTTGGGAATTATTAGCAATAAA  
 CAGACGCACACCAGCGCCATAGTGAAGCCACAGTCTAGCTCCTGTTCTACATTTGCCAGCACTGCCTCG  
 TCCACCTTGGAGACATTGCTCGATACAGAAACCAGACTAGCCAGGCAGAGTCTACTATAGGCATGCAGC  
 TCAGCTTGTCCCCTCCAATGGTCAGCCTTACAATCAGTTGGTATCTTAGCTTCTTCAAAGGAGACCAC  
 CTGACCACAATTTTCTACTACTGCAGAAGCATTGCTGTGAAATTCCTTTCCAGCTGCCTCCACTAACC  
 TACAAAAGCACTTTCTAAAGCACTGGAAAGCCGGGATGAGTTGAAAACCAAGTGGGGTGTCTTGACTT  
 CATCAAGGCCTTTATTAATCCACGGTCATGTATACCTGAGTAAAGTGGAAAAGCTGAGCCCTCTT  
 CGAGAGAAGTTAGAAGAAGTAAAGAGACTGCTGTTCCAAAAGCTTCAACTCTCAGCAGTTAGTTC  
 ATGTCAGTGCATTAACCTGTTTCAACTTCATCATCTTCGTGACTTTAGCAATGAAACAGAGCAGCACAG  
 TTACAGCCAAGATGAACAGCTGTGTTGGACACAGTTGCTGGCCCTCTTCATGTCTTTTCTGGCATCCTG  
 TGCAAATGTCTCTCCAGAATGATTCTCAGGAGTCTACAATGCCTATCCCCTTCTGCAGTCAAGGTCT  
 CCATGGACTGGCTAAGACTCCGACCTAGAGTCTTCAAGAAGCTGTAGTGGATGAAAGACAGTACATCTG  
 GCCCTGGCTAATTTCTCTCTCAATAGTTTTATCCCCGTGAAGATGATCTCTCAAGTACTAATGCCACA  
 CCCTTCCAGAGGAGTTGAACTACAAGGGTCTGGCTTTGAGACCTTCTTTCAGGAAGTTGGATTTTT  
 CCAAAGGCCATCAGGGTATTACAGGAGACAAAGAGGGTCAACAACGGCGAATACGGCAGCAGCGTTTGT  
 CTCATAGGGAAGTGATTGCTGACAACCAGCCACGGCTGATTCAGTGTGAAAATGAGGTAGGGAATTG



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TTATTTATCACAGAAATCCCAGAATTAATACTAGAAGACCCAGTGAAGCCAAAGAGAACCTCATCTAC  
 AAGAAACATCTGCGATAGAGTCACACGCTTCGGACGGGAGCCAGGACTGAAAGTCAGTGTCTACAGG  
 CCGAAGTCCAAGCACCAGCTGTGACTCAGGAGAGAAGCCAGTGGTCACCTTCAAAGAGAACATTAAGCCA  
 CGAGAAGTGAACAGAGACCAAGGAAGAAGCTTTCCTCCAAAGAGGTAAAATCCCAGACAGAATAAGAA  
 AGACCCAGTGTCCGAAGCCAGGAAAACCTCTGTCACTCAAACCTCAAGTCAAACAAATAATTCTCAGTT  
 CATCCCCATCCATCACCTGGAGCCTTCCCTCTTCCAGCCGACCGGGTCCCGGCCCAACATAT  
 GTTATCCCCCTCTGTGGCATTCTATGGGCTCAGGATACACCTTCCAGTGGTGTCTGTCCCAG  
 GAACCTTCTTTCAGTCTACAGTCACTCTCCAGCAGGAAACCAGGTGCAAGCTGGGAAACAGTCCCACAT  
 TCCTTACAGCCAGCAACGGCCCTCCGGACCAGGGCCAATGAACCAGGGACCTCAACAATCACAGCCACT  
 TCCCAGCCACCCCTTACATCTTTACCAGCTCAGCCAACAGCACAGTCTACAAGCCAGTTGCAGGTTCAAG  
 CTCTAGCTCAGCAACAGCAGTCCCCTACAAAAGTCATACCAGCCTTGGGAAAAGCCCGCTCACCCTC  
 TGGATTCCAGCAGTATCAACAGGCAGATGCCTCCAAACAGCTGTGGAATCCCCCTCAGGTTCAAAGCCCA  
 CTAGGGAAAATTATGCCTGTGAAACAGCCCTACTACCTCAGACCCAAGACCCTATAAACTGTTTGAGC  
 CGTCATTGCAGCCTCCTGTAATACAGCAACAGCCTCTAGAGAAAAAATGAAGCCTTCCCCATGGAGCC  
 ATATAACCATAATCCCTCAGAAGTCAAGTCCCAGAGTCTACTGGGATTCTTCTACAGCATGGCTGAT  
 AACAGAGCAGTAATGGCTCAGCAACAAATATGGACCGCAGGAGCAAACGGTCAACCGGAGTCTTCCGTC  
 CAGAGCAGGATCCTGTGCCAGGATGCCGTTTGGAGACCCCAAGAGCTCCCTCTGCTTCTCCGGACCT  
 GTTAAAGAGTCTGGCTGCCTTGGAGGAAGAGGAGGAGTATCTTTCTAACCTCCTGATCTTTACCCA  
 GCTCTGTGGGTCTCTCGCCTCTTCTGGACGAAGCCTCTTAAATCCTTACTGGAGAAGCCTTCCG  
 AGCTCATGTACATTCATCTTCTTCTGTCCCTCACTGGGTTCTCTGTCAATCAGGAAAGATATCCAAA  
 CAGCAGTGTGTTCAATGAAGTGTATGGGAAGAACCTGACAGCCAGCTCCAAGGCAGAGCTGAGCCCTCG  
 GTTGCCTCCTCCAGGAAACATCACTGTACTCCCTCTTGAAGGGACCCCTTGGTCTCCATCACTTCCCTG  
 CCAGTTCAGATCATTCAACACCAGCCAGCCAGTCTCCTCATTCTCCAACCCAAGCAGCCTGCCAGTTC  
 TCCTCCAACACATAACCATAATTCTGCTCCATTCTAATTTTGGACCCATTGGGACTCCAGATAACAGG  
 GATAGGCGGCCTGCAGATAGGTGAAAACCTGATAAACCAGCCATGGGTGGTTTCGGCGTTGATTACCTCT  
 CAGCAACGTATCATCTGAGAACAGTTGGCATCAGGCTAGCACTCCAAGTGGCACCTGGACAGGCCACGG  
 CCCCTCCATGGAGGATTCTCGCTGTCTCATGGAAAGCCTAAAGTCTATCTGGTCCAGTTCATGATG  
 CATCTGGACCTCCGCTCTCGAGCAGTTGTAATGCAGCAGAAGCAGAAACAGCAGCGGGGACAAGGTG  
 CCATGAACCTCCACATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001191549
- Insert Size:** 3450 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:**

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:** [NM\\_001191549.1](#), [NP\\_001178478.1](#)

**RefSeq Size:** 5719 bp

**RefSeq ORF:** 3450 bp

**Locus ID:** 360855

**Cytogenetics:** 13q21