

## Product datasheet for **MC204883**

### **Smg7 (NM\_001005507) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Smg7 (NM\_001005507) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Smg7  
**Synonyms:** 9430023P16Rik; mKIAA0250  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC082789

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GTAATGAAGAAGGGGAGGAGAATCTTCATCAACTGGTTTTGTGTAATAAACTTTCGTGTTTTGTTTGTAT
TTGATTTGATTTGGGTTGTTTTCCCCCTGTCTGTCTGTGTGCAAGATCTGCAGCTGCTGAAATCA
GCTTTGCCTTTAATTAACCGTGTCTCTCCAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_001005507
- Insert Size:** 3405 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).
- 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:** [BC082789](#), [AAH82789](#)
- RefSeq Size:** 5840 bp
- RefSeq ORF:** 3405 bp
- Locus ID:** 226517
- UniProt ID:** [Q5R1H6](#)
- Cytogenetics:** 1 G3
- Gene Summary:** Plays a role in nonsense-mediated mRNA decay. Recruits UPF1 to cytoplasmic mRNA decay bodies. Together with SMG5 is thought to 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 (By similarity). [UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (3) differs in the 5' UTR and has several differences in the coding sequence compared to variant 1. The resulting isoform (3) has a distinct N-terminus and the protein is shorter compared to isoform 1.