

Product datasheet for **MC224420**

Smg6 (NM_001002764) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smg6 (NM_001002764) Mouse Untagged Clone
Tag: Tag Free
Symbol: Smg6
Synonyms: AI317223; AU041178
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224420 representing NM_001002764
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGAGGGTTGGAGCGTGTGCGGATCTCCGCATCGAACTGCGAGGGATCCTGGCCACTCTGGCTC
CGCAGGCCGGGAGCAGAGAAAACATGAAGGAATAAAGGAACCCAGACAGCGCAAAGATAATAGGCGTCC
AGATTTGGAAATCTATAAGCCTGGACTTCTCGACTAAGGAACAGACCTAAAATAAGGAGGCTTCTGGG
AATGAGGAATTTAAGGATGAGATAGTAAATGACAGAGATTCCTTCTGCTGTTGGGAATGATACACAGCTTA
TTCAAGTTTGAAGGAATTGGACAGCCAACAGCAAAAATGGCCCTATAGATGCAGAAAATAGTCAGGCACA
GGAAAATTTTCCAAGACTGTTGGACTAGAGGACCGAAGTCTAAAGATCATCAAAAAGAAGCAAGAAACCA
GACCTGCAGATCTACCAGCCTGGAAGGCGGTTGCAGACCATTACCAAAGAGTCAGCAGGCAGGGCAGATG
AAGAAGAGATCCTCAACCAAGTGGAGCAGTTGAGGATAGAGGAGGATGAGTGAAGGGAGAAGCTATAAA
AGAAGAAGTTAATAACAAACCGGATAAAAACCGAGATAGAAAAGCACCAAAGTAATGACCGTGAAGAAGT
GCCAAGGGAGAAAAGGGAAAAAAGATTGAAAAGGGGAGGGGTCAAAGAAGGTGGCTGATGACTGTGCC
CAGAAAAGCCTGGCTCTGTAAGAGATACTCGAGATCAGACAAGAGAAGGAATCGCTACCGCACTTGCAG
TACCAGCTCAGCTGGTAGCAACAACAGTGTGAGGGAGCTGGCCTGACCGATAATGGATGTCGCCGGCGG
CGCCAGGATCGGGCCAAGGAGAGGCCACGACTGAAGAAGCAGGTATCTTTGTCCTCAACTGATTCCTTAG
ATGAGGACAGAGTTGATGAGCCTGATGTCTAGGGTCCAGGAGGAGCTCAGAAAGGAAGAAGCATTTAGA
AAGAAATTTGGTCTGGCTGTGGTGAAGGTGAACAGAAAAGCAATGGTAAAGAAAACCGAAGTGCCTTCGT
GTCACCTTTTGTGCAGAAACCATGAGTAAAGACTCCCCTGTGGTGAAGTCAAGATAATGTGGATA
GAATGAAGTCTGACAAAGGCCAAGCAGTGGGGTAAGGGCTCTGAGAAGCAGGAGCTCAGACACCCGAG
ACAAGAAGTTCGAGATCGTGGTCTGATCCTGATTCTGCCTGCCACACTGCCCTATCTGTCAGTTCA
TCAGGTTCTCCGAGTCTACACCTTTGGGACCTCGACTTTTATTTGGATCTGGTAGTAAGGGATCTCGGA
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AAGCCAGACACCTCAGCTACATTTCTTGGACACTGATGATGAAATTAGCCCTACATCTTGGGGTGATTCA
CGTCAGGCCCAAGCATCTTACTATAAAATTTCAAACTCTGATAACCCCTATTATTACCCTCGGACACCAG



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GCCCTGCCTCTCAGTATCCCTATGCAGGCTATAGCCCTCTGCAGTACCCAGTAGGCCCTACAAATGGTAT
 GTATCCAGGGGCTTACTACCCGGGCTATCCTGCCCCCTCAGGACAATATGTGTGTAGCCCTCTCCCTGCT
 AGCACCATGAGTCTGAGGAAATAGAACAGCACGTGCGGAACATGCAGCAACAGGAGCTCCATCGGCTTC
 TCCGAGTGGTGACAACCAGGAAGTGCAGCTCAGCAACCTGCTTCCAGGGACCCGATCAGCACTGAGGG
 CATGGAGAAGATGGCTCAGCTCAGAAGTGAAGTACTGCAGCTGTACGAGCGCTGTATTCTATTAGATATT
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 TGGGAAGGCTCGCAGTTGGTATCTGAAGGCTCAGCACATTGCTCCCAAGAATGGGCGCCCTATAACCA
 TTGGCTCTACTGGCAGTGTATACGAGGAGGAAGCTTGATGCTGTATTTACTATATGCGCAGTTTAGCAG
 CCAGCAACCTATCCTGACTGCCAAGGAGAGTCTCATGAGTTTATTTGAAGAGACTAAACGAAAGGCTGA
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 ACTTTCCGGCATGTTGGGGATGACACTACTCGCCTGGAGATTTGGATTCCATCACATCTCGGTCTG
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 GAACAAAAGGTTTCATCCTCAGTTTTCTCCATGCCATGGGAAGCTGTTTACCCGGATTGGGATGGAGACA
 TTCCCTGCAGTGGCTGAGAAGGTCCTTAAGGAGTTCGAAGTATTGCTGCAGCATAGCCCATCTCCTATTG
 GAAGTACCCGATGCTGCAGCTTATGACCATCAACATGTTTCCCGTGCATAACTCCCAGTTGAAAGACTG
 CTTCTCAGAGGAGTGTGCTTCTGTGATCCAGGAACAAGCTGCATCCTTGGGCTTGGCTATGTTTTCTTA
 CTGGTCCAGCGCTGCACATGCCTACTTAAGGACTCTGCTAAAGCTCAGCTGTCTCTCTGAGGACCAAG
 AGGACCAAGATGACATCAAGGTATCTTCCCTCGTCCCGGACTGAAGGAGCTGCTCCCAGTGTGAAAGT
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 TGGCTTTGTCCCCTTGTGGCTGCCCTCAGGACCCCTGCTACGTGGAGAAAACCTCGGATAAGGTTATT
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 TGCTGGCATTCAAGGGTGGAAAATATGTGTCAGTGGCACCCGTCACAGACCCATGGGAAAGGAAATGGG
 AAGCCAAGAGGGAAAACAAGTGAAGATGAGGAAGAAGATGTGGTATTGAAGACTTTGAGGAAGATTCA
 GAGGCTGAAGGCAGTGGGGTGAGGATGACATCAGGGAACCTCGGGCCAAGAAGCTGGCTCTAGCAAGGA
 AGATAGCTGAGCAGCAGCTCGCCAGGAAAAGATCCAGGCTGTTTTGGAAGACCAGAGTCAAGATGAGGCA
 GATGGAGCTGGAGATCAGACCCTTGTCTCGTACCAGATACCAACGGCTTCATTGACCCTGGCCAGT
 CTGGCTCGGCTGCTGGAGAGCAGGAAGTACATCCTGGTGGTGCCCTCATCGTATCAATGAGCTGGACG
 GCCTCGCCAAAGGGCAGGAGACAGACCACCGGGCTGGGGCTATGCCCGTGTGGTGAAGAAAAGGCCCG
 AAAATCCATTGAGTTCCTCGAACGGAGATTTGAGAGTCCGGACTCCTGCCTGCGGGCCTTGACCAGCCGT
 GGCAATGAACTTGAATCTATCGCCTCCGAAGTGAAGGACATTACTGGACAGCTGGGTAACAACGATGACC
 TGATCCTCTTTGCTGCCTGCACTACTGCAAGACAAGGCTAAGGATTACATGCCACCAGCAAAGAGGA
 GCCAATCCGCCTGTTACGGGAGGTGGTGTGCTGACCGATGATCGGAACCTTCGTGTAAGGGCGCTGACA
 AGGAATGTGCTGTGAGGACATCCCAGCCTTCTTACGTGGGCCAGGTGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001002764

Insert Size:

4257 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: [NM_001002764.1](#), [NP_001002764.1](#)

RefSeq Size: 5817 bp

RefSeq ORF: 4257 bp

Locus ID: 103677

UniProt ID: [P61406](#)

Cytogenetics: 11 B5

Gene Summary: Component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini. May have a general role in telomere regulation. Promotes in vitro the ability of TERT to elongate telomeres. Overexpression induces telomere uncapping, chromosomal end-to-end fusions (telomeric DNA persists at the fusion points) and did not perturb TRF2 telomeric localization. Binds to the single-stranded 5'-(GTGTGG)(4)GTGT-3' telomeric DNA, but not to a telomerase RNA template component (TER). [UniProtKB/Swiss-Prot Function]