

Product datasheet for **RN206691**

Smg9 (NM_001014243) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smg9 (NM_001014243) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Smg9
Synonyms:	RGD1309888
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN206691 representing NM_001014243
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGAGTCTGGGCACAGTCAGCCTGGGCTCTACGGGATAGAGCGGCGCGGAGGTGGAAGAGCCAG
 GCTCCAGTGGCCCCAGAATCTTTCTGGGCTGGCGGTGCGGAAAGAGACTACATTGCCCCCTGGGAAAG
 AGAGAGACGGGATGGCAGCGAAGACCCAGCACCAACGTCATGCAGAAAACCCCATCATCTCTCAAAG
 CCTCCAGCTGAGCGGTCAAAGCAGCCACCACCTAGTACAGCCCCAGCTGCACCGCCAGCCCCAGCCCCAC
 TGGAGAAACCCATTGTGCTCATGAAGCCACGTGAGGAGGGGAAGGGGCTGTGGTGCAACAGGGGCTTC
 CACCCCGAAGGTACTGCCCCACACCCCCACGGCCCTGCACCACCAAAAGGAGAGAAGGAGGGGCAG
 AGACCCACACAGCCTGTGTACCAGATTGAGAACCAGGGGATGGGCACTGCTGCCCAACTGCCATGGACC
 CTGTGGTGGGCCAGGCTAAGCTCTACCCCGGAGCGCATGAAGCACAGCATCAAGCTGGTAGACGACCA
 GATGAAGTGGTGTGACAGCGCCATTGAGTACCTGCTGGATCAGACGGACGTGTTAGTGGTCGGTGTCTTA
 GGCTCCAGGGGACAGGCAAGTCCATGGTCATGTCACTGCTGTCAGAAACACTCCAGAGGAAGACCAGA
 GGGCGTACGTCTTCCGGGCTCAGAGTGGGAGATGAAGGAACGAGGGGGCAACCAGACCAGCGGCATTGA
 CTTCTTCATTACCAAGAGCGGATTGTCTTCTAGACACGAGCCCATCCTCAGCCCGTCCATCTTGGAC
 CACCTCATCAATAACGACCGCAAACCTGCCTCCGGAGTATAACCTCCCTCACACCTATGTGGAATGCAGT
 CCCTGCAGATAGCTGCCTTCTTTCACGGTCTGCCACGTGGTGATCGTCGTGCAGGATTGGTTCACGGA
 CCTCAGTCTGTACAGGTTCTGCAACAGCAGAGATGGTGAAGCCATCGACTCCATCCCCAGCCATGAG
 TCCAGCAGCGCGCAGGCTCGGATGAGGGCACTGAGTACTACCCGACCTCGTCTTCTGCAACAAGG
 CACGTAGGGAGGACTTCTGTCCCGGAAGTTACGTGAGTGCACCTAATGATTGACCAGCTTATGGCACA
 TTCCACCTGCGCTACAAGGGGACGCTGTCCATGCTGCACTGCAACATCTTCCAGGGCTGCCGCCGAC
 TTCTGACGCTGAGGTCAACTTGTCTTCTGCTGCTTCTGACAGTGAAGCTGAGAATGAGAACCAC
 CTCGAGCAGGGCTGGATCCAGCCCCCTTCTCCCTGCTGCCTGGGTACCGAGGTACCCTAGCTTCCA
 GTCCCTGGTCAGCAAGCTCCGACGCCAGGTGATGTCAATGGCTCGGCCACAGCTGTCGCACACAATCCTC
 ACGGAGAAGAAGTGGTTCCTACTATGCTGCCAGAATCTGGGATGGGGTGAAGAAGTCTCAGCCCTGGCAG
 AGTACAGCCGCTTGTGGCT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001014243

Insert Size: 1563 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:	<u>NM_001014243.1, NP_001014265.1</u>
RefSeq Size:	2131 bp
RefSeq ORF:	1563 bp
Locus ID:	365215
UniProt ID:	<u>Q5PQS6</u>
Cytogenetics:	1q21
Gene Summary:	Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Is recruited by release factors to stalled ribosomes together with SMG1 and SMG8 (forming the SMG1C protein kinase complex) and, in the SMG1C complex, is required for the efficient association between SMG1 and SMG8 (By similarity). Plays a role in brain, heart, and eye development.[UniProtKB/Swiss-Prot Function]