

Product datasheet for **MC201444**

Smg8 (NM_024262) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smg8 (NM_024262) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smg8
Synonyms:	1200011M11Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC020005 sequence for NM_024262
GCTAGAGGAAGCTCTTTCTCCGCCATGGCGGGGCCGGTACAGTTGCGCGAGCTGCTCATGGGGCGTCGG
CCTGGCTGGGCTCTGAGAGTCTGGAGGCCCTCCGCTGAAGCGGGGAAACCGGGCTGGCAGGCCCGA
GCCCCGTGGAGGGAGGATGAGATCTGCGTGGTGGGAATCTTCGGCAAGACGGCTCTGCGCTCACTCC
GAGAAGTTCTCTGGTGAATACTGTGTGCGATCGACAGTTCCTCCACTTTCCACCATCAGGATCCTG
GAGATCCAGGAAGTGAATCAAGACCAAGCTGTCTGTGCGAGAGCGGGAGGAGCCGGAGACCCCGG
GGCTGCAGCCGGGATTCACTTCGCGGAGGTATGGTACGGCGGAAGGTAAACCGAGCTGAGCCAGTCCC
CAGGACTTCAGTCTTTTGCAGGCCATTACAATCAGGAAAGCAAAGTTCTGTATCTTATTCTCACTTCCA
TCTGTGACAACTCACAGCTTCTGCGTGCTGTGCGGCCCTCCAGAGCGGTGAAGCCGGAGGGGGCTCTC
TTTACCTCATGCAGAAACACACGAGTTCTGGAAGCATCAGGAGAAGTTACAGTGTCTCAGCTCCTTTAC
CTCTTCTGTCTGCATATCTTGTCTGGTCCATCCGACGTGTTCTTTGACATCACTTATGATCGTG
TATTTCAGAGCCCTGGATGGACTGAGACAGAAAGTACTACCCCTCCTCAAAACAGCCATTAAGGATTGCC
AGTTGGCAAAGACTGGAAGTTAAACTGCCGACCTTGCCACCTAGACTCCTCTTCTCTTCACTCAAT
GGGGCCCTTAAGGTGGAACCGCCTCGGAGCCAGGATACAGCTCATCCAGATAAACCCAAGAAGCACTCTC
CCAAAAGAAGGCTGCAGCATGCCCTGGAGACCAGATCTATAGAATCTTTCGCAAGAGTCGAGTCTTGAC
TAATCAGAGTATCAACTGCCTCTTACGGTACCTGCCAACCAAGCTTTTGTGTACATAGTCCCGGAAGC
CAGGAGGAGGACCAATTGGCATGTTGCTGGACCAGCTTAGGAGCCATTGTACCGTGAAAGACCCAGAAT
CGTTGTTGGTGCCCGCACCCCTTCTGGACCTAGGCGGTACCAAGCGATGAGACAGCACAGCCGCCAAAC
GCTCTCCTTCCACATTGATAGCAGCACCTCGAGTCTTTCAGGCCAGCTAGTGGATTTCACTCTTCGAGAA
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AGCCTTCCCATTTTGAAGTGGCCACTTACCAGAAGTGGATCTCTGCAGCAGCAAAGTTGTATGAAGTGGC
TATCGATGGGAAGGAAGAGGACTTGGGCTCCCCACTGGGGAGCTAACATCTAAGATTTTAAAGCATTT
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GAAGACTGCTACAAATTTTGGAGCAATGGCCATCAGCTGTGCGAAGAGAGGAGCTTGACTGACCAACT
GTGTCCACAAATTTTATTCTTACCTAAATCAGGAGAAAAGCCAGAGGCAGATAGGAACCCCTCTGTGCT
CTACCACAATAGCCGAGCCGATCCACCGAGCCTGCAACTGCGGAAGGAAGCAGGCACCTCGAGACGAC
CCCTTCGATATCAAGGCTGCTAACTATGACTTTTACCAGCTTCTGGAAGAAAAATGTTGTGGAAATGG
ATCATATCAATTTCCCTGTATTTGAGCCAAGTACTCCAGATCCCCTCTGCTAAAAATGAACCCCTCTC
TGCCCCCGCAGACTCGGACGCCGAGAACTGAAGGAGAAAAGAACCTCAAACCAAGGAGAGACACAAGC
CTCAGCTTAGCTTGGAGCTTGGGCCAGTCAACAGATAGCCTAGGTACCTACCCCGCTGATCCACAGGCAG
GAGGAGACAACCCAGAAGTCCACGGGAAGGAGAAGGAAAGTCTGAGAAGAGACCAAACTTGGTTGACCG
TCAGGCATCCACAGTTGAATATCTCCAGGCATGCTACATTCAAATTTGCCCAAAGGTCCTACCCAAA
TTCTCCAGCTGGTCTTGGTTAAACTAGGCCAGCCAAGTCTTACAACCTTCATACAGGTTTGGACCAAC
AGGGCTTCGTTCCAGGAACAACTATCTTATGCCTTGGGACATTGTCATCAGGACTAGAGCTGAAGATGA
AGGAGACTTAGACACGAACTCCTGGCTGCTCAAATAAAGCTATTCTGGGAAGAGAAGTGCAGTTGTG
ATGGGCAGAGGAAGGCGGAGGGATGACATAGCTCGAGCCTTTGTTGGCTTTGAGTATGAAGACTCTCGAG
GTGCGAGGTTTCATGTGCTCAGGGCTGACAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT
TTTAAAAGCCCTCAACAGTGACATGCCCTGTACATCCTGTCTCGTCCGAGGGCAGAGGGCTGAAGCCA
CATTATGCTCAACTTATGAGGCTTTTTGTTGTTGTTCTGATGCTCTTTGCAGATAAATACTGATGCCTC
AGGTTCAACAGGCCACCACCATGTCCAGTATTTTACCAGAAAAACAAGAAATCACTCTCCCACCTGA
TGGCCTTTGGGTCTTGTAGATTTCTTATGCCTATGTGACTGAGAGAGGACCTTGTTCCTCCCAAGGAG
AATGTGCAGCTCATGAGCTACAAGTGTCCGAGGAGTCTCAAAGCAGTTACACAATGAGTCTCCAGC
CACTCTGCCGAGACTGAAGCTGCTGTTGTCTTGTGTTTGTATGTGTTTGGGTTTTTTTTTAAATGTGTAT
ACTGTGCTTCCAAAACCAATGTGTTTTGGTTACAAGTATTCAAGTATTGGACAATAATTGTTCCATT
ATTTCAATATATTGATATTTATTGTAATAATCAATAAAAGTTTGTCTAGAAAAAAAGGATACAAAATGT AAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_024262

Insert Size: 2976 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:	<ol style="list-style-type: none">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:	BC020005 , AAH20005
RefSeq Size:	3236 bp
RefSeq ORF:	2976 bp
Locus ID:	74133
UniProt ID:	Q8VE18
Cytogenetics:	11 C
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 SMG9 (forming the SMG1C protein kinase complex) and, in the SMG1C complex, is required to mediate the recruitment of SMG1 to the ribosome:SURF complex and to suppress SMG1 kinase activity until the ribosome:SURF complex locates the exon junction complex (EJC). Acts as a regulator of kinase activity (By similarity).[UniProtKB/Swiss-Prot Function]