

Product datasheet for **MC229176**

Smtn (NM_001284428) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smtn (NM_001284428) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smtn
Synonyms:	smsmo
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229176 representing NM_001284428
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCAGACGAGGCTTTAGCTGGCTGGATGAAGGAGCCCTCCGAAAACGCTGGAGGCTACTGCAGATC
 TGGCAGAACGGCGCGGATCCGCTCAGCCATCCGGGAGCTGCAGCGACAGGAGCTGGAACGAGAAGAGGA
 GGCTCTGGCGTCCAAACGTTTCCGTGCTGAGCGCAAGACAACAAGGAGAACTGGCTACTCTCAACAG
 CGAGAAGCTGAACAGCAGGCCGCCCTCGCACGATTGGCAGGGAGACTGGAGTCCATGAATGATGTCGAGG
 AGTTGACCACACTGCTTCGGAGTGCCGGTGAATATGAGGAGCGCAAGCTGATCAGAGCTGCCATCCGCCG
 AGTGGCAGCTCAGGAGATTAAGGCTGCCACCTGGCTGGGAGACTGTGCAGTAGACTTCCCAGTAGTGGC
 CCCCAGAGGACAGCAGGAGGCAGGCAGCACACATTGGACCCTGGTAAGGTGCCAGAGCCAGAGCAGC
 AGGAACAGCAGACAGAAGTACTCGAGCCAACCCCAACCCAGAGGACACCAGCCAGGATGTGACCACAGT
 GACTCTCTGCTGAGGGCCCCGCTGGGGCAGGCCAGCTCACCTGCTTCCCCACAATTCAACCACC
 AGTGCCTCTCAGAGCCTCTGCTGGAGCCTGCTGGAGCCAGTGTCTGCTGTGGAGGCTCCAGTCAAGT
 CTGAGCCACTTCCACACCCTTCAAGGCTCCTAGCCCTGAGCCCCCATGTGCGCCGTACCGTCCAGCTC
 TCGGGGGCGGGTATCAGCAAGCCCTGCCTGGCCCCACAGAGCCCTCAGATACCTTGGACTCCATCAGA
 GGCTTCTCCAACACTAAGAGAGCAGACCCGCTGAAACGAAATCCTGCCAACGTTCACTATCTGTGCTCA
 GTCCCCGACAACCAACCCCAATCGAGAGCCAACCTCACTTGCAGGACCGTCCCAGTTCGGTCGAGTTGG
 CTCTGTGAGAGACAGAGTCCAAAAGTTCACATCTGATTCTCCCGTGGTTGCCAGGCTCCAGGATGGCCCA
 CCCCAGACAGCCCTTGTTCACCGACCCCAAGGCTCCCGGGCCCTTCCCTCATCAGCACCACCCTGTG
 CCTCCTCCTCCAGCAACTCCTCTCCTCCGAGTCCCAGTGCACACTTCTCCACAAGAAGCAGAGAGA
 ACTTGCTATTCCCTGGCCGAGCTTCAGAGCTGCCCTCAAGAGGAGGGCCCTGGGGGGCGGGCTTGCT
 CTCAGGTCCTTGAACAAGAGCAGGGGGGCCAAGCCCTGCTCAGAAGAGCCAGTACCCACCCGCCG
 TGGCCGTGGCACTGGGAGCCAGGGGGCAGTATGAAGACTACGTTTACCATTGAGATCAAGGATGGCCG
 TGGTCAGGCTCCACAGGCCGGGTGCTGCTGCCACAGGCAACCAGAGAGCAGAATTGACTTTGGGATTG
 CGGGCACCCCAACCTTCTCAGCACCAGCAGTGGGGCAAGAACCATCACCCACATCAGCAACCCTG
 GGACTGTGACCCGACTGGCAGTGTCACTCACGTCACTACCTTACGCCATGCCTCCCTGGTAACCGAGG
 AGGCTGCAACTTAAAGATGGAGCCAGATCTGCAGAGCCCCCTCCACCACAGTGAAGCAGCTAATGGC
 GCAGAGCAGGCTCGAGTGGACAAAGGCCAGAGGGCGGAGTCCCCTGAGTGCAGAGGAGCTGACGCCA
 TTGAGGACGAAGGAGTCTTGGACAAGATGCTGGACCAGACTACGAACTTTGAGGAGAGGAAGCTCATCCG
 GGCTGCACTGCGTGGAGTCCGACAAGAAAGAGAGACCAGAGGGACAAGGAACGAGAACGGAGGCTACGG
 GAGGCACGGGCCCGCCGGGCGAGAGCCGAAGCAATGTGGCCACGGAGACCACCACAGGCACAGCCAGC
 GGGCGGCTGATGGCTCTACTGTCCGACAGTTACCAAAACCGAGCGCCTCGTTCACTCCAATGATGGCAC
 TCAGAGCGCCCGCACCACCACAGTGGAGTCCAGTTTATGAGGCGCTTGGAGAATGGCAGCAGCAGCAGC
 AGCACCACCACCACCGTCCAAACCAAGAGTTTTTCTCTTCTCTTCTCTCTCTCTCTCTCTCTCTCTCT
 TGGCAGTATCTCGACCGAGAGGACCAGACCAGTCACTGCTGGCAGCCTGGCAGCCCTTGAAGACGC
 CCAGGCAGAGAAGAAGAAGAGTTAATGAAGGCACAGAGTCTGCCAAGACTTCAAGTATCCCAAGCAGC
 AAGGCCATGATTGAGAAGCTAGAGAAAGAAGGCTCTGCAGTGGTCTGGCACACCCCGTACAGCTGTAC
 AGCGTTTACCAGCTTCGGAGTCCCAACGCAATAGCATCAAGCAGATGTTGCTGGACTGGTGGCCGAGC
 CAAGACCCGCGGCTACGAGCAGTGGACATCCAGAACTTCTCCTCCAGCTGGAGTGGATGGCTTCT
 TGTGCCCTGGTGCACAATTTCTTCCCTGAGGCTTTTACTATGGGAGCTGAGCCACAAAACCGACGCC
 AGAACTTTGAAATGGCTTCTCATCCGCTGAGACCCATGCGGACTGCCCCAGCTCTGGATACAGAGGA
 CATGGTGGGCTTCGAGAGCCAGACTGGAAGTGGTGTACACGTACATCCAGGAGTTCTACCGCTGTCTG
 GTCCAGAAGGGGCTGGTAAAAACAAAAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001284428
Insert Size:	2766 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:	<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:	<u>NM_001284428.1</u> , <u>NP_001271357.1</u>
RefSeq Size:	3454 bp
RefSeq ORF:	2766 bp
Locus ID:	29856
UniProt ID:	<u>Q921U8</u>
Cytogenetics:	11 A1
Gene Summary:	Structural protein of the cytoskeleton.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4) differs in the 5' UTR, the 3' UTR, and the 3' coding sequence compared to variant 3. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a. Variants 1, 2, and 4 all encode the same isoform (b).