

## Product datasheet for **MC228634**

### **Smtn (NM\_001284429) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smtn (NM_001284429) 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:** >MC228634 representing NM\_001284429  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGCCGGTACCGTCCAGCTCTCGGGGCGGGTTCATCAGCAAGCCCCTGCCTGGCCCCACAGAGCCCT  
 CAGATACCTTGGACTCCATCAGAGGCTTCTCCAACACTAAGAGAGCAGACCCGCTCTGAAACGAAATCCTG  
 CCAACGTTCACTATCTGTGCTCAGTCCCCGACAACCAACCCAAATCGAGAGCCAACCTCACTTGCAGGA  
 CCGTCCCAGTTCCGTCGAGTTGGCTCTGTGAGAGACAGAGTCCAAAAGTTCACATCTGATTCTCCCGTGG  
 TTGCCAGGCTCCAGGATGGCCACCCGAAACAGCCCTTGCTTACCGACCCCAAGGCTCCCGGGCC  
 TTCCCTCATCAGCACCACCCCTGCCTCCTCCTCCAGCAACTCCTCCTCCGAGTCCCAGTGACACT  
 TCCTCCACAAGAAGCAGAGAGAACTTGCTCATTCCCTGGCCGAGCTTACAGAGTGCCTCAAGAGGAGG  
 GCCCTGGGGGGCGGGCTTGGCTCTCAGGTCCTTGAAAACAGAGCAGGGGGGCCAAGCCCTGCTCAGA  
 AGAGCCAGTACCCACCGCCCTGGCCGTTGGCACTGGGGAGCCAGGGGGCAGTATGAAGACTACGTTT  
 ACCATTGAGATCAAGGATGGCCGTGGTCAGGCCTCCACAGGCCGGGTGCTGCTGCCACAGGCAACCAGA  
 GAGCAGAATTGACTTTGGGATTGCGGGCACCCCAACCCTTCTCAGCACCAGCAGTGGGGCAAGAACAC  
 CATCACCCACATCAGCAACCCTGGGACTGTGACCCGACTGGGCAGTGTCACTCAGTCACTACCTTCAGC  
 CATGCCTCCCCTGGTAACCGAGGAGGCTGCAACTTTAAGATGGAGCCAGATCCTGCAGAGCCCCCTCCA  
 CCACAGTGAAGCAGCTAATGGCGCAGAGCAGGCTCGAGTGGACAAGAGCCAGAGGGGGCGGAGTCCCCT  
 GAGTGCAGAGGAGCTGACGGCCATTGAGGACGAAGGAGTCTGGACAAGATGCTGGACCAGACTACGAAC  
 TTTGAGGAGGAAGCTCATCCGGGCTGCACTGCGTGAGCTCCGACAAAGAAAGAGAGACCAGAGGGACA  
 AGGAACAGAGAACGGAGGCTACGGGAGGCACGGGCCCGCCGGCGAGAGCCGAAGCAATGTGCCACGGA  
 GACCACCACAGGCACAGCCAGCGGGCGGCTGATGGCTCTACTGTCGGCACAGTTACCAAAACCGAGCGC  
 CTCGTTCACTCCAATGATGGCACTCAGACGGCCCGCACACCACAGTGGAGTCCAGTTTCATGAGGCGCT  
 TGGAGAATGGCAGCAGCAGCAGCAGCACCACCACCACCGTCCAAACCAAGAGTTTTTCTCTTCCTC  
 TTCCTCGTCTCGTCCAAAAGATGGGCAGTATCTTCGACCGAGAGGACCAGACCAGCTCACGTCCTGGC  
 AGCCTGGCAGCCCTTGAAGACGCCAGGCAGAGAAGAAGAAGAGTTAATGAAGGCACAGAGTCTGCCCA  
 AGACTTCAGCATCCAAGCACGCAAGGCCATGATTGAGAAGCTAGAGAAAGAAGGCTCTGCAGTGGTCC  
 TGGCACACCCGTACAGCTGTACAGCTTCTACCAGTTCGGAGTCCCCAACGCCAATAGCATCAAGCAG  
 ATGTTGCTGGACTGGTGGCAGCAAGACCCGCGCTACGAGCAGTGGACATCCAGAATCTCCTCCA  
 GCTGGAGTGATGGGATGGCTTCTGTGCCCTGGTGACAAATTTCTCCCTGAGGCTTTTACTATGGGCA  
 GCTGAGCCCAAAAACCGACGCCAGAATTTGAAATGGCCTTCTCATCCGCTGAGACCCATGCGGACTGC  
 CCGCAGCTCCTGGATACAGAGGACATGGTGGGCTTCGAGAGCCAGACTGGAAGTGGTGTACACGTACA  
 TCCAGGAGTTCTACCGCTGTCTGGTCCAGAAGGGGCTGGTAAAAACAAAAGTCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001284429

**Insert Size:** 2019 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001284429.1</u> , <u>NP_001271358.1</u>
<b>RefSeq Size:</b>	3399 bp
<b>RefSeq ORF:</b>	2019 bp
<b>Locus ID:</b>	29856
<b>UniProt ID:</b>	<u>Q921U8</u>
<b>Cytogenetics:</b>	11 A1
<b>Gene Summary:</b>	Structural protein of the cytoskeleton.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (5) contains an alternate exon in the 5' end and differs in the 3' UTR and coding sequence compared to variant 3. The resulting isoform (c) is shorter at the N-terminus and has a shorter and distinct C-terminus compared to isoform a.