

## Product datasheet for **SC318389**

### Smoothelin (SMTN) (NM\_006932) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smoothelin (SMTN) (NM_006932) Human Untagged Clone
Tag:	Tag Free
Symbol:	Smoothelin
Vector:	<u><a href="#">pCMV6 series</a></u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006932, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTC
ACAGCAGATCTGGCAGAGCGGCGGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAG
GAGCTGGAGCGCAGGAGGAGGCCCTGGCATCCAAGCGTTTCCGTGCCGAGCGGCAGGAC
AACAAAGGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTGCCCTGGCA
CGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGA
AGCGTGGTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGT
CAGGAGATTGAGGCTGCCACCTTGGCTGGGAGTTGTACAGCGGGCGTCCCAACAGTGGC
TCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGCTGGAACAGTGTGAGGTGCCAGAG
CGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTGAAGGCACC
AGCCAGGATGTGACCACAGTGCACCTCTGCTGCGAGCCCCACCTGGGAGCACATCCAGC
TCACCTGCCTCACCAGCAGTTCACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCT
GCCGAGGCCCAGTGCCTACAGCTGAGGTTCCAGGCAGCCAGAGCCACCCCCAGCCCA
CCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAACGCTCCCAGCACTGAGGGCCAG
GTGGTCAACAAGCTTCTGTCTGGCCCCAAGAGACCCCTGCTGCCAGAGCCCCACCAGA
GGCCCCCTGTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCTGCCAACGCTCCCTG
TCGGTGTCTAGCCCCCGCAACCCAGCCAGAACCGAGAGTCCACCCCTTGGCAGCGGA
CCTTCTCATTCCAGCGGGCTGGCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGAT
TCTCCTATGGTCTAGGCTCCAGGATGGCACACCCAGGCTGCCCTAAGTCCCCTGACC
CCCGAAGGCTCCTGGGCCCTCCCTCACCAGCACCACCCCTGCCTCCTCCTCCAGCGGC
TCCTCCTCTCGGGCCCCAGTGTACCTCCTCCCGTTTCCAGCAAGGAGCAACGAGGAGTA
GCCCAGCCCTGGCCCAGTTCGAAGCTGCCCCAGGAGGAGGGCCCCAGGGGGCGGGGC
TTGGCTGCTAGGCCCTTGAAAACAGAGCAGGGGGCCTGTGGCACGTTTACAGGAGCCT
GGTCCCCGCTGCCCGTGGCCGTGCGCACTGCCGAGCCAGGGGGCAGTATGAAGACCACA
TTCACCATCGAGATCAAGGACGGCCGTGCCAGGCCTCCACAGGCCGGGTGCTGTGCC
ACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGC
ACCAGTAGTGGGGCAAGAGCACCATCACCCTGTCAACAGCCCTGGGACCCTGGCTCGG
CTGGGCAGTGTCACTCATGTACCAGCTTCCAGCCATGCCCCCCCAGTAGCCGAGGAGGC
TGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTCTCGCTGCAGCAGTGAAGCGGCC
AATGGGGTGTGAGCAGACCCGAGTGAACAAGCACCAGAAGGGCGGAGCCCTCTGAGCGCT
GAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCAGC
GACTTTGAAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAGGAAGAGA
GACCAGCGGGACAAGGAGCGGGAACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAG
GGGCGCGGCAACACAGCCACTGAGACCACCAGGACAGCCAGCGGGCAGCTGATGGC
TCTGCTGTGAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATGGCACACGG
ACGGCCCCCACCACCAGTGGAGTCGAGTTTTCGTGAGGCGCTCGGAGAATGGCAGTGGC
AGCACCATGATGCAAACAAGACCTTCTCCTCTCCTCCTCATCAAGAAGATGGGCAGC
ATCTTCGACCCGAGGACCAGGCCAGCCACGGGCCGAGCCTGGCGGCCTCGAGAAA
CGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGCAGAGTCTGCCAAGACCTCAGCC
TCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCGCGCACCCCT
GGCGGACCCCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCAACGCCAACAGC
ATCAAGCAGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGAC
ATCCAGAACTTCTCCTCCAGCTGGAGTGTGGGATGGCCTTCTGTGCCCTGGTGCACAAC
TTCTTCCCTGAGGCTTCGACTATGGGCAGCTTAGCCCTCAGAACCAGCCAGCAACTTC
GAGGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCTGGTGGAGTGGAC
GACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATGTGCAGTCG
CTCTACAACCACCTGCGACGCCACGAAGTGCCTGCGCGCAAGAAATGTC

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**Restriction Sites:** Please inquire

**ACCN:** NM\_006932

<b>Insert Size:</b>	3175 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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><a href="#">NM_006932.3</a></u> , <u><a href="#">NP_008863.3</a></u>
<b>RefSeq Size:</b>	3175 bp
<b>RefSeq ORF:</b>	2754 bp
<b>Locus ID:</b>	6525
<b>UniProt ID:</b>	<u><a href="#">P53814</a></u>
<b>Cytogenetics:</b>	22q12.2
<b>Domains:</b>	CH
<b>Gene Summary:</b>	<p>This gene encodes a structural protein that is found exclusively in contractile smooth muscle cells. It associates with stress fibers and constitutes part of the cytoskeleton. This gene is localized to chromosome 22q12.3, distal to the TUPLE1 locus and outside the DiGeorge syndrome deletion. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (3) has an alternate 5' exon, which results in a downstream AUG start codon, and lacks an in-frame exon in the middle region, compared to variant 4. The resulting isoform (c, also referred to as L1, B and c1) is shorter at the N-terminus and lacks an internal segment, compared to isoform d. This isoform is highly expressed in all vascularized organs and represents a vascular smooth muscle-specific form. This transcript also includes an alternate downstream translation initiation site, which results in the smoothelin-A product, a visceral smooth muscle-specific form.</p>