

## Product datasheet for **SC111019**

### Smoothelin (SMTN) (NM\_134270) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smoothelin (SMTN) (NM_134270) Human Untagged Clone
Tag:	Tag Free
Symbol:	Smoothelin
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_134270, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATC
TGGCAGAGCGGCGGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGGAGGAGGA
GGCCCTGGCATCCAAGCGTTTCCGTGCCGAGCGCAGGACAACAAGGAGAAGTGGCTGCACTCTCAGCAG
CGGAAGCTGAGCAGCGGCTGCCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGG
AATTGACTGCACTGTTGCGAAGCGCTGGTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCG
TGTACGGGCTCAGGAGATTGAGGCTGCCACCTTGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGC
TCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGCTGGAACAGTGTGAGGTGCCAGAGCGAGAGGAAC
AGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTGAAGGCACCAGCCAGGATGTGACCACAGT
GACTCTCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTGCCTCACCCAGCAGTTCACCCACC
CCTGCCTCTCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCTTACAGCTGAGGTTCCAGGCAGCC
CAGAGCCACCCCCAGCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAACGCTCCCCAGCAC
TGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGCCCCACCAGA
GGCCCCCTGTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCCTGCCAACGCTCCCTGTCCGTGCTCA
GCCCCCGCAACCAGCCAGAACCAGAGTCCACCCCTTGCCAGCGGACCTTCTCTATTCCAGCGGGC
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CTGCCTCTCTCCAGCGGCTCTCTCTCGGGGCCCCAGTGATACTCTCCCGTTTCCAGCAAGGAGCA
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TTGGCTGCTAGGCCCTTGAACAACAGCAGGGGGGCTGTGGCACGTTTCCAGGAGCCTGGTGCCTGCG
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CCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGACCTCTCGCTGCAGCAGTGAAGCGGCC
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TGACTATTGAGGATGAAGGAGTCTTGACAAGATGCTGGATCAGAGCACGGACTTTGAAGAGCGGAAGCT
CATCCGGGCTGCACTTCTGTGAGCTCCGACAAGGAAGAGAGACCAGCGGACAAGGAGCGGGAACGGCGG
CTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGCAACACAGCCACTGAGACCACCACGAGGCACA
GCCAGCGGGCAGCTGATGGCTCTGCTGTGACACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGA
TGGCACACGGACGGCCCCGACCACCACAGTGGAGTCGAGTTTCTGTGAGGCGCTCGGAGAATGGCAGTGGC
AGCACCATGATGCAAAACCAAGACCTTCTCTTCTCTCTCATCAAGAAGATGGGCAGCATCTTCGACC
GCGAGGACCAGGCCAGCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAA
AGAGCTGATGAAGGCGCAGAGTGTGCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAG
CTGGAGAAGGAGGGCGCGGCCGCGCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCG
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GCAGCTGACATCCAGAACTTCTCTCCAGCTGGAGTGTGGATGGCCTTCTGTGCCCTGTGACCAAC
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GCCTGACTGGAAGATGCTGGTGGACTGTGTGCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAG
AAGCCTGACCCCAAGTGTGCTTACCTATGTGCAGTCGCTCTACAACCACCTGCGACGCCACGAACTGC
GCCTGCGCGGCAAGAATGTCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_134270 unedited  TATAACCCCGCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA  GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG  CGAATTCGGCACGAGGGGTTGCTGAGCGGGCTGGGACAGCGGGTCGCGGCACCTCCGGC  CTGCGCGTGTCTAATCCGTCTGTGCGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGAC  GGGTGGCTGGACTGAGAGAATTCTCTGAGCTGGTGACAGGTGCCACAGGCACTGGGGAT  CTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGGACGAGGCCTTAGCT  GGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGG  CGGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCAGGAGGAG  GCCCTGGCATCCAAGCGTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAAGTGGTGCAC  TCTCAGCAGCGGGAAGCTAGNCAGCGGGCTGCCCTGGCACGGCTGGCAGGGCAGCTGGA  GTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTGGTGAGTATGAGGA  GCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCAC  CTTGGCTGGGAGGTTGTACAGCGGGCTCCCAACAGTGGCTCAAGAGAGGACCAGCAGG  GGGCTAGCGGCACACAGGCTGGGACAGTGGGAGGTGCCAGAGCGAGAGGGACAGGAACA  GCAGCCAGAGGTTTTCAAGCCCCACCCACCCCTGAAGGCACAGCCAGATGTGACCCCA  GTGACACTTCTGCTGGGAGCCCCACCTGGGAGCAATCCGGCTTAACG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_134270 unedited  GGGGGCGATATTAGCTATGNNACCGCGCCGCATNCTAGNGATCGATTTTTTTTTTTTTT  TTTTCGTTGAAAACCAATAATTTATCAAAACGCTGCGTGTGTATGTGGGGGGAGGGTGT  CGCAACAGACAGGGCAGCGGTGGGCGGACGCACAGGCAGGAGACGGTGCCCGGAGAGTGG  GGGCGGACAGTTGCCACTGGCTGGCCATGCGGGCGGGCAGGCTAGACATTCTTCCCGCGC  AGGCGCAGTTCTGGCGTGCAGGTGGTTGTAGAGCGACTGCACATAGGTGAAGACACAC  TTGGGGTCAGGCTTCTTGCCTATGATCATCATGTCCACCTCCACCAGGGGCACACAG  TCCACCAGCATCCGTGGGGCCCCGAGCAGGGGTAGGACTTTTTGGTTTTTACCAGCCCC  TTCTGGACCAGACAGCGGTAGAATTCTGGATGTACGTGTACACGCACTCCAGTCAGGC  TCTCGAAGCCGCACCATGTCCTCTGTATCCAGGAGCTGCGGGCAGTCCGCATGGGTCTCC  GCAGATGAGAAGGCCACCTCGAAGTTCTGGCGTCCGTTCTGAGGGCTAACTGCCCATAG  TCGAAGGCCTCAGGGAAAAAATTGTGCACCACGGCACAGAAGGCCCTCCCCTCACTCCAA  CTGGAGGAGAAAATTTCTGGATGTCGACCGGCTCGTAACCGCGAGTCTTGTGTTGAAACCC  ATTCAGCAACATCCTGCTTGAAGCTGTTTGGCCTTGGGGACCCCAAACTGGGGGAA  CGTTTTACGGGCTGGCGCGGGGTCCCCCGGGTTTTTAGGACGCGCCCTTCATTTTCC  AATTTTTTAAATACAGGGCCTTGAGCGCCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_134270
<b>Insert Size:</b>	3500 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>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).

**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:** [NM\\_134270.1](#), [NP\\_599032.1](#)

**RefSeq Size:** 3198 bp

**RefSeq ORF:** 2823 bp

**Locus ID:** 6525

**UniProt ID:** [P53814](#)

**Cytogenetics:** 22q12.2

**Domains:** CH

**Gene Summary:** 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]  
Transcript Variant: This variant (1) has an alternate 5' exon, which results in a downstream AUG start codon, lacks an in-frame exon in the middle region and has an additional in-frame exon in the 3' region, compared to variant 4. The resulting isoform (a, also referred to as B3) is shorter at the N-terminus, lacks a segment in the middle region and has an additional segment in the C-terminal region, compared to isoform d.