

## Product datasheet for **SC331739**

### Smoothelin (SMTN) (NM\_001207018) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smoothelin (SMTN) (NM_001207018) Human Untagged Clone
Tag:	Tag Free
Symbol:	Smoothelin
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331739 representing NM\_001207018.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGGAGGAATGGGGACGCCTGGGGACTTGCACGCCGCTGCCCTCCACCACCCGCCGGGACGCCCTC  
 TGCCTCGGTCCCAGTTCGAGTTCGACCTCCGCCACTCAGCTGGGTGCTCTGGGGACCTTGGTTTCTTC  
 CCTTTAGATCCGGACACTGAAGCAGGCGGTAGCGGGTGTCTTCTACCTGGCTACCCCTTCGGCGCCTA  
 CGCGAGGCAGGCTGGAGGTCACAGCAGATCTGGCAGAGCGGCGCGCATCCGCTCAGCCATCCGGAA  
 CTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGCCCTGGCATCCAAGCGTTTCCGTGCCGAGCGGCAG  
 GACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTGCCCTGGCAGCGCTG  
 GCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTGGTGAGTAT  
 GAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCGGTGTACGGGCTCAGGAGATTGAGGCTGCCACCTTG  
 GCTGGGAGGTTGTACAGCGGGCTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACAC  
 AGGCTGGAACAGTGTGAGGTGCCAGAGCGAGGAAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACC  
 CCCACCCCTGAAGGCACCAGCCAGGATGTGACCACAGTACACTCCTGCTGCGAGCCCCACCTGGGAGC  
 ACATCCAGCTCACCTGCCTCACCAGCAGTTCACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCT  
 GCCGAGGCCAGTGCCTTACAGCTGAGGTTCCAGGCAGCCAGAGCCACCCCCAGCCACCCAAGACC  
 ACCAGCCCTGAGCCTCAGGAGTCTCAACGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTG  
 TCTGGCCCAAAGAGACCCTGTGCCCAGAGCCCCACCAGAGGCCCTCTGACACCAAGAGAGCAGAC  
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 GAGTCCACCCCTTGGCAGCGGACCTTCTCATTCCAGCGGGCTGGCTCTGTGCGGGATCGTGTCCAC  
 AAGTTCACATCTGATTCTCTATGGCTGCTAGGCTCCAGGATGGCACACCCAGGCTGCCCTAAGTCCC  
 CTGACCCCGCAAGGCTCCTGGGCCCTCCCTCACCAGCACCCCTGCCTCTCTCCTCAGCGGCTCC  
 TCCTCTCGGGGCCAGTGATACTCTCCCGTTTCAGCAAGGAGCAACGAGGAGTAGCCAGCCCTG  
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 AACAGAGCAGGGGGCCTGTGGCAGTTTCAGAGGAGCCTGGTGCCTGCTGCCCGTGGCCGTCGGCACT  
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 CGGCTGGCAGTGTCACTCATGTACCAGCTTCAGCCATGCCCCCCAGTAGCCGAGGAGGCTGCAGC  
 ATCAAGATGGAAGCAGAGCCAGCAGAGCCTCTCGCTGCAGCAGTGAAGCGGCAATGGGGCTGAGCAG  
 ACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTCTGAGCGCTGAGGAGCTGATGACTATTGAGGAT  
 GAAGGAGTCTTGACAAGATGCTGGATCAGAGCAGGACTTTGAAGAGCGGAAGCTCATCCGGGCTGCA  
 TTCTGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGGAACGGCGGCTGCAGGAGGCA  
 CGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCAGGGCACAGCCAGCGGGCA  
 GCTGATGGCTCTGCTGTGAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATGGCACACGG  
 ACGGCCCGCACCACAGTGGAGTTCGAGTTTCGTGAGGCGCTCGGAGAAATGGCAGTGGCAGCACCATG  
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 AAGGAGGCGCGCCGGCAGCCCTGGCGGACCCCGCGCAGCCGTGACAGCATCCACCAGTTCGGGGTCC  
 CCAACGCCAACAGCATCAAGCAGATGCTGCTGGACTGGTGTGAGCCAAAGACTCGCGGCTACGAGCAC  
 GTCGACATCCAGAACTTCTCTCCAGCTGGAGTGTGGATGGCCTTCTGTGCCCTGGTGCACAACCTTC  
 TTCCCTGAGGCCCTTCGACTATGGGCAGCTTAGCCCTCAGAACCAGCGCCAGAACTTCGAGGTGGCCTTC  
 TCATCTGCGGAGACCCATGCGGACTGCCCGAGCTCCTGGATACAGAGGACATGGTGGCGCTTCGAGAG  
 CCTGACTGGAAGTGCCTGTACACGTACATCCAGGAATTCTACCGTGTCTGGTCCAGAAGGGGCTGGTA  
 AAAACCAAAAAGTCC**TAA**

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001207018  
 Insert Size: 2916 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).
<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>	<a href="#">NM_001207018.1</a>
<b>RefSeq Size:</b>	3336 bp
<b>RefSeq ORF:</b>	2916 bp
<b>Locus ID:</b>	6525
<b>UniProt ID:</b>	<a href="#">P53814</a>
<b>Cytogenetics:</b>	22q12.2
<b>MW:</b>	104.8 kDa
<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 (5) lacks two exons from the 5' end, has an alternate 5' exon, lacks an in-frame exon in the middle region and has an additional exon in the 3' region, compared to variant 4. The resulting isoform (e) has distinct N- and C-termini, and lacks an internal segment, compared to isoform d.</p>