

Product datasheet for **SC118118**

SM22 alpha (TAGLN) (NM_003186) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SM22 alpha (TAGLN) (NM_003186) Human Untagged Clone
Tag:	Tag Free
Symbol:	SM22 alpha
Synonyms:	SM22; SM22-alpha; SMCC; TAGLN1; WS3-10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118118 sequence for NM_003186 edited (data generated by NextGen Sequencing) ATGGCCAACAAGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAG AAGTATGACGAGGAGCTGGAGGAGCGGCTGGKGGAGTGGATCATAGTGCAGTGTGGCCCT GATGTGGGCCGCCAGACCGTGGGCGCTTGGGCTTCCAGGTCTGGCTGAAGAATGGCGTG ATTCTGAGCAAGCTGGTGAACAGCCTGTACCCTGATGGCTCCAAGCCGGTGAAGGTGCC GAGAACCACCCTCCATGGTCTTCAAGCAGATGGAGCAGGTGGCTCAGTTCCTGAAGCG GCTGAGGACTATGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGC AAAGACATGGCAGCAGTGCAGAGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAG AATGATGGGCACTACCGTGGAGATCCCAACTGGTTTATGAAGAAAGCGCAGGAGCATAAG AGGGAATTCACAGAGAGCCAGCTGCAGGAGGAAAGCATGTCATTGGCCTTCAGATGGGC AGCAACAGAGGGGCTCCAGGCCGGCATGACAGGCTACGGACGACCTCGGCAGATCATC AGTTAG Clone variation with respect to NM_003186.3 92 t=>k



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003186 unedited TAGGGCGGACAAGCCATTCGGCACGAGGCACAAGTCTTCACTCCTTCTGCGAGCCCTGA GGAAGCCTTTTCCCCAGACATGGCCAACAAGGGTCCTTCTATGGCATGAGCCGCGAA GTGCAATCCAAAATCGAGAAGAAGTATGACGAGGAGCTGGAGGAGCGGCTGGTGGAGTGG ATCATATTGTTGTGTGGCCCTGATGTGGCCGCCAGACCGTGGGCGCTTGGGCTTCCAG GTCTGGCTGAAGAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCTGATGGC TCCAAGCCGGTGAAGGTGCCGAGAACCCACCTCCATGGTCTTCAAGCAGATGGAGCAG GTGGCTCAGTTCCCTGAAGGCGGCTGAGGACTATGGGGTCATCAAGACTGACATGTTCCAG ACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCAGTGACAGAGACCCTGATGGCTTTG GGCAGCTTGGCAGTGACCAAGAATGATGGGCACTACCGTGGAGATCCCAACTGGTTTATG AAGAAAGCGCAGGAGCATAAGAGGGAATTCACAGAGAGCCAGCTGCAGGAGGGAAAGCAT GTCATTGGCCTTCCAGATGGCAGCAACAGAGGGGCTCCAGGCCGGCATGACAGGCTAC GGACGACCTCGGCAGATCATCAGTTAGAGCGGAGAGGGGCTAGCCTGAGCCCGGCCCTCC CCCAGCTCCTTGGCTGCAGCCATCCCGCTTAGCCTGCCTACCCACACCCGTGTGGTACC TTCAGCCCTGGCCAAGNNCTTGAGCTCTGTCACTGAGCAATGGTAACTGACCCTGGGCAG CTCCTCCCTGTGCCCCAGNCTCAGCCAACTTCTACCCGAAGCATCACA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003186 unedited GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGAAAAGATGATTTTTTTTTT TTTTTTTTGAGTTCACCCCAAAAATATTCCAGGACAAGATAGGGGGCAGGCTGGGCTG GTTCTTCTCAATGGGCTTTTGGCCCAAGGAGGACAGTGGACTTGGCCACATCCAGGC TACCCCGAGCCGCTTCTCCCTGCTTAACCCAGGGAGGAGACAGTAAAGGTGATGGGGG CAGCCGGGAGGGAGGGGCAAGGCAGTGTGCTTTCGGGTAAGAAAGTTGGGCTGAGGCTG GGGGCACAGGGAGGAGCTGCCAGGTGCAGTTACCATTGCTCAGTGACAGAGCCTCAAAG CTTGGCCAGGGCTGAAGGTACCACACGGGTGTGGGTGAGGCAGGCTAAACGGGATGGCTG CAGCCAAGGAGCTGGGGAGGGCCGGGCTCAAGGCTAGCCCTCTCCGCTCTAACTGATGA TCTGCCGAGGTCGTCCTGAGCCTGTGATGCCGGCTGGGAGGCCCTCTGTTGCTGCCCA TCTGAAGGCCAATGACATGCTTTCCCTCCTGCAGCTGGCTCTCTGTGAATCCCTCTTAT GCTCCTGCGCTTTCTTATAAACAGTTGGGATCTCCACGGTAGTGGCCATCATTCTTGG TCACCTGCCAGCTGGCCAAAGCCATCAGGGTCTCTGCACTGCTGCCATGTCTTTGCCTT CAAAAGGTCAACAGTTTGAACATGGCAGTCTTGATGACCCCATATTCTCAACCCGCTT TCAGAACTGAGCCCCCGGCTCCAAGTCCCTGGAGAACATGGGAGGGTGGGTTTCTTTGG GCACCTATCCGGCTTGAGACCATAAGGGGTACAGCGTGGTACCCAAAGTTGGGCTAAAA ATTACGCCACTCTCTCAACCCGAACCTGTGAAGCCCAATGCCCCACGGGTTTGGGCC GCGCCCACTAAGGGGCACACCGGCTTTGGATTCTTACACACCCCGCTTTCACGTGTC CTCTGCTAAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003186
Insert Size:	1050 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).
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:

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_003186.3](#), [NP_003177.2](#)

RefSeq Size: 1177 bp

RefSeq ORF: 606 bp

Locus ID: 6876

UniProt ID: [Q01995](#)

Cytogenetics: 11q23.3

Domains: calponin, CH

Gene Summary: This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C-terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the actin filament and changes in cytoskeletal organization. [provided by RefSeq, Aug 2017]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.