

Product datasheet for **SC101246**

SMOC2 (NM_022138) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMOC2 (NM_022138) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMOC2
Synonyms:	bA37D8.1; bA270C4A.1; dJ421D16.1; DTDP1; MST117; MSTP117; MSTP140; SMAP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022138, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCTCCCCAGCTCTGCTGGCTGCCGCTGCTCGCTGGGCTGCTCCCGCGGTGCCCGCTCAGAAGT
TCTCGGCGCTCACGTTTTTGAGAGTGGATCAAGATAAAGACAAGGATTGTAGCTTGGACTGTGCGGGTTC
GCCCCAGAAACCTCTCTGCGCATCTGACGGAAGGACCTTCCTTTCCCGTTGTGAATTTCAACGTGCCAAG
TGCAAAGATCCCCAGCTAGAGATTGCATATCGAGGAACTGCAAAGACGTGTCCAGGTGTGTGGCCGAAA
GGAAGTATACCCAGGAGCAAGCCCGGAAGGAGTTTCAGCAAGTTCATTCTGAGTGAATGACGACGG
CACCTACAGTCAGGTCCAGTGTACAGCTACACGGGATACTGCTGGTGCCTCACGCCAACGGGAGGCC
ATCAGCGGCACTGCCGTGGCCACAAGACGCCCGGTGCCGGGTCCGTAATGAAAAGTTACCCCAAC
GCGAAGGCACAGGAAAAACAGTCTCCTTGCAAATCTTTCCGTTCTGAATTCAGATGATGCCGACGCTCC
AGCGTTGGAGACTCAGCCTCAAGGAGATGAAGAAGATATTGCATCACGTTACCCTACCCTTTGGACTGAA
CAGGTTAAAAGTCGGCAGAACAAAACCAATAAGAATTCAGTGTATCCTGTGACCAAGAGCACCAGTCTG
CCCTGGAGGAAGCCAAGCAGCCCAAGAAGCACAATGTGGTGTATCCCTGAGTGTGCGCACGGCGCCCTA
CAAGCCAGTGCAGTGCCACCCCTCCACGGGACTGCTGGTGCCTCCTGGTGGACACGGGGCGCCCAT
CCCGGCACATCCACAAGGTACGAGCAGCCGAAATGTGACAACACGGCCAGGGCCACCCAGCCAAAGCCC
GGGACCTGTACAAGGGCCGCCAGCTACAAGTTGTCCGGGTGCCAAAAGCATGAGTTTCTGACCAGCGT
TCTGGACGCGCTGTCCACGGACATGGTCCACGCCCTCCGACCCCTCCTCCTCGTCAGGCAGGCTCTCA
GAACCCGACCCAGCCATACCCTAGAGGAGCGGGTGGTGCATGTAATCAAACTACTGGATAAAAACT
CCAGTGGAGACATCGGCAAAAAGGAAATCAAACCTTCAAGAGGTTCTTCGCAAAAAATCAAAGCCAA
AAAATGTGTGAAGAAGTTTGTGAATACTGTGACGTGAATAATGACAAATCCATCTCCGTAACAAGACTG
ATGGGCTGCCTGGGCGTGGCGAAAGAGGACGGCAAAGCGGACACCAAGAAACGCCACACCCCCAGAGGTC
ATGCTGAAAGTACGTCTAATAGACAGCCAAGGAAACAAGGATAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022138 unedited NNNGGGGTTCAGAATTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGCCG CCGGNACGGTGGGAGAAAGCTCGCGGAGCCGCCCTCCACGCGCCCGCCAGCCGCGCT CGCCACTGGGCTCTCCCGGCTGCAAGTCCAGGGCGCAGGGCGCGGCCGATCTCCCGCTC CCGCCACCTCCGCCACCATGCTGCTCCCCAGCTCTGCTGGTGGCGCTGCTCGTGGGC TGCTCCCGCCGGTGCCCGCGCAGAAGTTCTCGGCGCTCACGTTTTTGAGAGTGGATCAAG ATAAAGACAAGGATTGTAGCTTGGACTGTGCGGGTTCGCCCCAGAAACCTCTCTGGCGAT CTGACGGAAGGACCTTCCCTTCCCGTTGTGAATTTCAACGTGCCAAGTGCAAAGATCCCC AGCTAGAGATTGCATATCGAGGAAACTGCAAAGACGTGTCCAGGTGTGTGGCCGAAAGGA AGTATACCCAGGAGCAAGCCCGAAGGAGTTTCAGCAAGTGTTTCATTCTGAGTGAATG ACGACGGCACCTACAGTCCAGTCCAGTGTACAGCTACACGGGATACTGCTGGTGGCTCA CGCCCAACGGGAGGCCATCAGCGGCACTGCCGTGGCCACAAGACGCCCGGTGCCCGG GTTCCGTAAATGAAAAGTTACCCCAACGCGAAGGCACAGGAAAAACAGATGATGCCGCG CTCCAGCGTTGGAGACTCAGCCTCAAGGAGATGAAGAAGATATTGCATCAGTTACCTA CCCTTTGGACTGAACAGGTTAAAAGTNCGCAGAACAAACCAATAAGAATTCAGGTTGTCC GGGTGCCAAAAAGCATGAGTTCTGACCAGCGTTCTGGACGCGCTGTCCACGGACT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022138 unedited CCCACTAGCTTTGCACCGTCGGCCGCAACCTACGAGTCGACTTTTTTTTTTTTTTTTTTTA GTTTCAATAGCATATTTTATTTAATCTAAGAACAATGATTAATTCAAAGGTCAGAAAT ATAAAAGATTATCCAAAAAGTTTAGGATCATAACTGTTTCTTAAACAACATTGGCATGTA CTTGAGCTGGTTCTGTGGCTCCAAAGGCTTGATTTTTACCTTGACAGTTTAAATAAGCA AGAAGCCTTACGGGATGCTCCACAAGCATCACAACATCACAAAATCATTCTACAAGGCAT GTCTCAGGGGATTTGGGGCCATGAAGATCTTTTCCAACCAAAAGTCTGAGCCGAGATAG AATCACAGCTTGAAGTTCTGCTCTCAGACTGTCTCCAATGGTTCTTAAAGACTGG GTGCCCTGAGCTCTGGGGCCAGGCCTGAGGGTGGCAGCTGGTTATGCACGCAGACCAGT TCTGTTGGTCACTGTGTGGGCATTCCACTCCTATCCTTCTGCCAGTGCCACTCGGATG AATTTCCATTGGCAAGCTCTCGTACCCTTGATGCATTACACAAGCCCAAGGAACCGT GGGGACCTCAGGCACCTCCCCTCGGCTGCCACACCAGCCCGGTGGCACCCCGAATTC GCTTGTACCTTTCAGTAAGGAGACTGCTCCTCATTGGTTTCAAGTGAACATTTTACCCTCCC GTAACACTCGGGTGGACCACCCTCCACGATTAGGTCACCTCCCGCCACGTGTCGAAGGAA CCCACAGCAGCCAACCTGCCACAACCTTTGATCCCCCGTACTGACTTACCTTTTCGCAAC GAGGTCTCTCCACCCCTGCGCTTGTACTACTGCCCTCTCCGCTACCTCCCCATCCCC ACACCCCTTAGCACTCTCCACCCAAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_022138
Insert Size:	2850 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_022138.1](#), [NP_071421.1](#)

RefSeq Size: 2947 bp

RefSeq ORF: 1374 bp

Locus ID: 64094

UniProt ID: [Q9H3U7](#)

Cytogenetics: 6q27

Domains: thyroglobulin_1, EFh, kazal

Protein Families: Secreted Protein

Gene Summary: This gene encodes a member of the SPARC family (secreted protein acidic and rich in cysteine/osteonectin/BM-40), which are highly expressed during embryogenesis and wound healing. The gene product is a matricellular protein which promotes matrix assembly and can stimulate endothelial cell proliferation and migration, as well as angiogenic activity. Associated with pulmonary function, this secretory gene product contains a Kazal domain, two thyroglobulin type-1 domains, and two EF-hand calcium-binding domains. The encoded protein may serve as a target for controlling angiogenesis in tumor growth and myocardial ischemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).