

Product datasheet for **RG230096**

SMOC2 (NM_001166412) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMOC2 (NM_001166412) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMOC2
Synonyms:	bA37D8.1; bA270C4A.1; dj421D16.1; DTDP1; MST117; MSTP117; MSTP140; SMAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230096 representing NM_001166412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTCCCCAGCTCTGCTGGCTGCCGCTGCTCGCTGGGCTGCTCCCGCGGTGCCCGCTCAGAAGT
 TCTCGGCCTCACGTTTTGAGAGTGGATCAAGATAAAGACAAGGATTGTAGCTTGGACTGTCCGGGTTCC
 GCCCAGAAACCTCTCTGCGCATCTGACGGAAGGACCTTCTTTCCCGTTGTGAATTTCAACGTGCCAAG
 TGCAAAGATCCCCAGCTAGAGATTGCATATCGAGGAACTGCAAAGACGTGTCCAGGTGTGTGGCCGAAA
 GGAAGTATACCCAGGAGCAAGCCCGAAGGAGTTTTCAGCAAGTGTTCATTCTGAGTGCATGACGACGG
 CACCTACAGTCAGGTCCAGTGTACAGCTACACGGGATACTGCTGGTGCCTCACGCCAACGGGAGGCC
 ATCAGCGGCACTGCCGTGGCCACAAGACGCCCGGTGCCGGGTTCCGTAATGAAAAGTTACCCCAAC
 GCGAAGGCACAGGAAAAACAGATGATGCCGCAGCTCCAGCGTTGGAGACTCAGCCTCAAGGAGATGAAGA
 AGATATTGCATCACGTTACCCTACCCTTTGGACTGAACAGGTTAAAAGTCGGCAGAACAAAACCAATAAG
 AATTCAAGTGTATCCTGTGACCAAGAGCACCAGTCTGCCCTGGAGGAAGCCAAGCAGCCCAAGAACGACA
 ATGTGGTGATCCCTGAGTGTGCGCACGGCGGCCTCTACAAGCCAGTGCAGTGCCACCCCTCCACGGGTA
 CTGCTGGTGCCTGGTGGACACGGGGCGCCCATTCGCGGCACATCCACAAGTACGAGCAGCCGAAA
 TGTGACAAACAGGCCAGGGCCACCCAGCCAAAGCCCGGACCTGTACAAGGGCCCGCAGCTACAAGTT
 GTCCGGGTGCCAAAAGCATGAGTTTCTGACCAGCGTTCTGGACGCGCTGTCCACGGACATGGTCCACGC
 CGCCTCCGACCCCTCCTCCTCGTACGGCAGGCTCTCAGAACCCGACCCAGCCATACCCTAGAGGAGCGG
 GTGGTGCAGTGGTACTTCAAACACTGGATAAAAACTCCAGTGGAGACATCGGCAAAAAGGAAATCAAAC
 CCTTCAAGAGGTTCCCTTCGAAAAAATCAAAGCCAAAAAATGTGTGAAGAAGTTTGTGAATACTGTGA
 CGTGAATAATGACAAATCCATCTCCGTACAAGAAGTATGGGCTGCCTGGGCGTGGCGAAAGAGGACGGC
 AAAGCGGACACCAAGAAACGCCACACCCAGAGGTCATGCTGAAAGTACGTCTAATAGACAGCCAAGGA
 AACAAAGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230096 representing NM_001166412
 Red=Cloning site Green=Tags(s)

MLLPQLCWLPLLAGLLPPVPAQKFSAL TFLRVDQDKDKDCSLDCAGSPQKPLCASDGRFTLSRCEFQRAK
 CKDPQLEIAYRGNCKDVSRCVAERKYTQEQRKEFQQVFIPECNDDGTYSQVQCHSYTGYCWCVTPNGRP
 ISGTAVAHKTPRCPGSVNEKLPQREGTGKTDAAAPALETQPQDEEDIA SRYPTLWTEQVKSQRQNTNK
 NSVSSCDQEHQSALEEAQPKNDNVVIPECAHGGLYKPVQCHPSTGYCWCVLVDTGRPIPGTSTRYEQPK
 CDNTARAHPAKARDLYKGRQLQCGPGAKKHEFLTSVLDALSTDMVHAASDPSSSSGRLSEPDPSHTLEER
 VVHWYFKLLDNSSGDI GKKEIKPFKFRFLRKKSKPKKCVKFFVEYCDVNNDK S ISVQELMGCLGVAKEDG
 KADTKRHTPRGHAESTSNRQPRKQG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001166412

ORF Size: 1338 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001166412.2](#)

RefSeq Size: 3117 bp

RefSeq ORF: 1341 bp

Locus ID: 64094

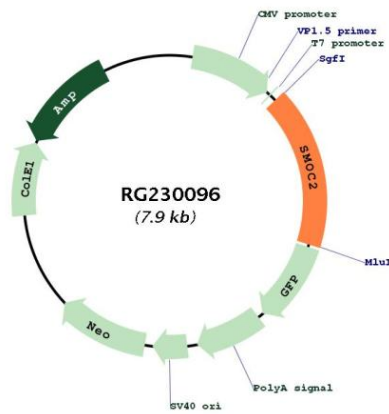
UniProt ID: [Q9H3U7](#)

Cytogenetics: 6q27

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 thymoglobulin 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]

Product images:



Circular map for RG230096