

Product datasheet for SC118167

SPARC (NM_003118) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPARC (NM_003118) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPARC
Synonyms:	BM-40; OI17; ON; ONT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118167 sequence for NM_003118 edited (data generated by NextGen Sequencing)

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ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCTTGGCAGCCCCTNNN
NNAGAAGCCCTGCCTGATGAGACAGAGGTGGTGAAGAACTGTGCAGAGGTGACTGAG
GTATCTGTGGGAGCTAATCCTGTCCAGGTGAAGTAGGAGAATTTGATGATGGTGCAAG
GAAACCGAAGAGGAGGTGGTGGCGGAAAATCCCTGCCAGAACCACCTGCAAACACGGC
AAGGTGTGCGAGCTGGATGAGAACAACCCCCATGTGCGTGTGCCAGGACCCCACCAGC
TGCCCAGCCCCATTGGCGAGTTTGAGAAGGTGTGCAGCAATGACAACAAGACCTTCGAC
TCTTCTGCCACTTCTTTGCCACAAGTGCACCCTGGAGGGCACCAAGAAGGGCCACAAG
CTCCACCTGGACTACATCGGGCCTTCAAATACATCCCCCCTTGCCTGGACTCTGAGCTG
ACCGAATTCCCCCTGCGCATGCGGGACTGGCTCAAGAACGTCCTGGTCACCCTGTATGAG
AGGGATGAGGACAACAACCTTCTGACTGAGAAGCAGAAGCTGCGGGTGAAGAAGATCCAT
GAGAATGAGAAGCGCCTGGAGGCAGGAGACCACCCGTTGGAGCTGCTGGCCCGGGACTTC
GAGAAGAATAAACATGTACATCTTCCCTGTACTGGCAGTTTCGGCCAGCTGGACCAG
CACCCATTGACGGGTACCTCTCCACACCCGAGCTGGCTCCACTGCGTGTCCCCATC
CCCATGGAGCATTGCACCACCCGCTTTTTCGAGACCTGTGACCTGGACAATGACAAGTAC
ATCGCCCTGGATGAGTGGCCGGCTGCTTCGGCATCAAGCAGAAGGATATCGACAAGGAT
CTTGTGATCTAA

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Clone variation with respect to NM_003118.2
58 c=>n;59 a=>n;60 g=>n;61 c=>n;62 a=>n



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003118 unedited
 GTCGCATTTGTATACGACTCCTATAGGGCGGCCGGAATCGGCACCAGCTCCACATTCCC
 GCGGTCTTCAGACTGCCCGGAGAGCGCTCTGCCTGCCGCCTGCCTGCCACTGA
 GGGTTCCAGCACCATGAGGGCCTGGATCTTCTTCTCCTTTGCCTGGCCGGGAGGGCCT
 TGGCAGCCCTCAAGAAGCCCTGCCTGATGAGACAGAGGTGGTGAAGAACTGTGGCAG
 AGGTGACTGAGGTATCTGTGGGAGCTAATCCTGTCCAGGTGGAAGTAGGAGAATTTGATG
 ATGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGGAAAATCCCTGCCAGAACCACCACT
 GCAAACACGGCAAGGTGTGCGAGCTGGATGAGAACAACCCCCATGTGCGTGTGCCAGG
 ACCCCACCAGCTGCCAGCCCCATTGGCGAGTTTGAGAAGGTGTGCAGCAATGACAACA
 AGACCTTCGACTTCTCCTGCCACTTCTTTGCCACAAAGTGCACCCTGGAGGGCACCAGA
 AGGGCCACAAGCTCCACCTGGACTACATCGGGCCTTGCAAATACATCCCCCCTTGCTGG
 ACTCTGAGCTGACCGAATCCCCCTGCGCATGCGGGACTGGCTCAAGAACGTCTGGTCA
 CCCTGTATGAGAGGGATGAGGACAACAACCTTCTGACTGAGAAGCAGAAGCTGCGGGTGA
 AGAAGATCCATGAGAATGAGAAGCGCTGGNAGGCAGAGACCACCCCGTGGAGCTGCTGG
 CCCCAGACTTCGAGAAGACTATAACATGTACATCCTCCCTGTACTGAGTTCGCGCA
 GCTGGACCAGCACCCATTGACGGGTACCTCTCCACACCGAGCTGGCTCCATGCGTGCT
 CCCCTCATCCCATGGAGCATGCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003118 unedited
 CTATGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTATTTTTTA
 GGAGCTTTTATTGTTTTAGTAATCTTAACATAACTTAAAATAAGAGAGGGGAAATGACAT
 CTGGAGATCTAGGTATGTGGCCATTGCAATTGAGCACATTTCTGGGTCTGTTTCTCTA
 TCTCTAAGGGGAGTCTCAAACCCAGCTCAAAATACGACACTAACATGATGAACATGCA
 TGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAA
 CTTTCTGTGATGATGAAAAGATTCTACTTCTGACCTATTCAAATAGGGTAACCACTAATCA
 TGCATGGCTCTCAAGCACTTGAAATGTTGCTAGTGTGATTGGGGAGCTGCGTTTTGAATG
 TTAATAATTTAAATTTAAATCTTAAAAAGTTACATGTGGGTAGTGGCTGCCGTACGGAA
 CAGTACAGCACTAGAATAATGCTGTGTCCTCCTGTTACACATACTCATGGTCTCTCCTAC
 TCTCCCTCATCACACCTGTGACATCTTGAATTTATATTTGATTGTGTCATTATCTAAT
 GTATTCCTCCTGGACTCTAAGCTCCAAATGAACAAATGCTTTGTCTACTTTGCCATAACT
 GTGTCCCCAGTCTTGGCATGGGACCTGGTGCANAGTAAATACATCATAAATATTTTGTG
 AATGAATGAATGAATGAATGACCANNTGATAATAAAGATATAGCTGCTCANTCTGGTGC
 TGATATTGGGGANATGATCAAAAGGGTAAACCACAGGTCCTTAAATGAAAACAGCTAAC
 TTATTGCTTACAAGAAACCTACCCTCCCTGGGTATAAACTGCCCGGTGTTTGTGGTCCCG
 GGTGGTGTGTGCAAAAACATAATGGGGTTGCAAAGGGTGCATTTGGGGAACCATGGTAA
 CAAGATGCCCTTGGGTTTTGGGAAGAAAATAAAGGAACATAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_003118

Insert Size:

3280 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_003118.2](#), [NP_003109.1](#)

RefSeq Size: 3178 bp

RefSeq ORF: 912 bp

Locus ID: 6678

UniProt ID: [P09486](#)

Cytogenetics: 5q33.1

Domains: kazal, FOLN

Protein Families: Druggable Genome

Gene Summary: This gene encodes a cysteine-rich acidic matrix-associated protein. The encoded protein is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2015]
 Transcript Variant: This variant (1) encodes the predominant isoform (1).