

## Product datasheet for MC207404

## Sparc (NM\_009242) Mouse Untagged Clone

## **Product data:**

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:     Expression Plasmids       Product Name:     Sparc (NM_009242) Mouse Untagged Clone       Tag:     Tag Free       Symbol:     Sparc       Synonyms:     BM-40; ON       Mammalian Cell     Neomycin       Selection:     pCMV6-Entry (PS100001)       E. coli Selection:     Kanamycin (25 ug/mL)       Fully Sequenced ORF:     XHC207404 representing NM_009242       Red=Cloning site Blue=0RF Orange=Stop codon     TTITGTAATACGACTCACTATAGGGCGGCCGGGAAGCCCCTGGACGGAGGACCCCCCAGGAGGACTGCCC       ATGAGGGCCTGGAATCTCCTTTTTCTCCTTGCCTGGCAGGAGACACGGGGAGGCCCTGGCAGGAGGACCGCCCAGGAGGACCCCCCACGAGGAGACCGTGGCAGGACACAGGGGTGACCAGCGAGGACCCCCAGCTGCCCACCCA		
Tag:Tag FreeSymbol:SparcSynonyms:BM-40; ONMammalian Cell Selection:NeomycinVector:pCMV6-Entry (PS100001)E. coli Selection:Sharc (25 ug/mL)Fully Sequenced ORF:>HC207404 representing NM_009242 Red=Cloning site Blue=0RF Orange=Stop codonTittgTAATACGACTCACTATAGGGCGGGCCGGGAATTCGTCGGACCGAGGAGACTCGCC CGCGCGATCGCCCAtGAGGACTGAATAGTGGAAGGAGAAACCCTGGTGGGGCAGGAGGACCCCCCAGGAAGACCCCAGGAGAATCGCCC CCCGGGGACTGCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Product Type:	Expression Plasmids
Symbol:SparcSynonyms:BM-40; ONMammalian Cell Selection:NeomycinVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)Fully Sequenced ORF:>MC207404 representing NM_009242 Red=Cloning site Blue=ORF Orange=Stop codonTTTTGTAATACGACTCACTATAGGGCGGCGGGGAATTCGTCGACTGGATCCGGAGGAGATCGCC GCCGCGATCGCCATGAGGGCCTGGATCTTCTTTTCTCTTTGCCTGGCGGGAGGGCCCTGGCAGGAGGACCGAGGAGATCGCC CGCCGCAATCGGCAGGAATACGGGAGAAACCGTGGTGGAGGAGGACACACGGGTACCCTAGGAGGAGGACCCACGAG CGCCCCAGGACCCACCACTTTGCCAAGGAGGAGCACACGGGGTACCCTGGGGGCCAAGCCC CCCAGGGCACCCACCACTGTGCGACGAGACACGGGGTGCGAAGGAGGACACCCCTGGGAGGCCCAAGCCC CCCAGGGCCCCCCCCAGGAAGCCCCCCCCCTTGCGCAGGCGGCGCGGAGGACCCCCCCC	Product Name:	Sparc (NM_009242) Mouse Untagged Clone
Synonyms:BM-40; ONMammalian Cell Selection:NeomycinVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)Fully Sequenced ORF:>McC071404 representing NM_009242 Red=Cloning site Blue=ORF Orange=Stop codonTTTTGTAATACGACTCACTATAGGGCGGCGGGAATTCGTCGACTGGGACCCGAGGAGATCGCC GCCGCATCGCCTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGAGGCCCTGAGGAGGACTCGCC GCCGCGATCGCCATGAGGGCCTGGATCTCCTTTTTCTCTTTTGCCTGGCGGCGGGAGGCCCTGGCAGCCCTCAGCAGGAGTCGCC CCCGCGGATCGCCCTTGCTAAGAGGCCTGGAGACACCCTGGTGGAGGAGGACCCTGGGGGCCCTGGCAGCACCAGT CCAGGTGGAAATGGGAGATCTGCCCATGGGGTGCAAGGGATGCGCCAGAGGATCGCCCCCCAGCAGGAACCCCTGGGGGCCCAGGCAGAGGATCGCCCACCCA	Tag:	Tag Free
Mammalian Cell Selection:NeomycinVector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)Fully Sequenced ORF:>MC207404 representing NM_009242 Red=Cloning site Blue=ORF Orange=Stop codonTTTTGTAATACGACTCACTATAGGGCGGCCGGGAATCCGCGGCACCGAGGAGATCTGCC GCCGCGATCGCCATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCGGGAGGGCCCTGGCAGCCCAGGAGAATCGCC CCAGGTGGAAATGGGAGGAAACCGTGGATGCAGGAGAAACCGCGGTACCCGTGGGAGGCCCAGGAAACCGC CCAGGTGGAAATGGGAGAAACCGTGCAGGGAGGAAACCGCGGAGGAGCAACAACCCC TGCCAGAGCAATCGCCCACCACAGT CCAGGTGGAATGGGAGGAATCGGCCAGGGAGGAAGCAGGGGAACCAGCGGCTGGACGACAACCCC TGCCAGAACCATCATTGCAACAATGGCAAGGCGCTGGAGGAGGAACCAGCGGCTGGACGAACAACCCCC TGCCAGAACCATCATTGCAACAATGGCAAGGCCAAGGAGGCCCAGGAGGAACCACCCCCAGGTGGCGCCCACACCAGT CCAGGTGGAAATGGGACGAATGCAAGGCCCAAGGAGCACAACCCCC TGCCAGAACCATCATTGGCAACAATGGCAAGGCCCAAGGAGCAACAACCCCC CCCCGGGAGCATACACCCCCAGCTGCCCCTAGCAAGGCCCCAACGAGGCCCAACACCCCC CCCCGGGAGCAGAACCGCCCATTGCCCAACCAGGTGCCGGCCG	Symbol:	Sparc
Selection:       pCMV6-Entry (PS100001)         E. coli Selection:       Kanamycin (25 ug/mL)         Fully Sequenced ORF:       >MC207404 representing NM_009242 Red=Cloning site Blue=ORF Orange=Stop codon         TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC       ATGAGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGCCCTGGCAGCCCCTCAGCAGACTGAAG GCCGCGATCGCC         ATGAGGCCTGGACCTCACTATAGGGCGGCGCGGGAGGCCCTGGCAGCCCCCAGCAGACTGAAG CCAGGTGGAAATGGGAGAATTGGCAGGAGAACCGTGGAGGGGCACCGGGGGCCAACCCAGG CCCGCGGGACCCACCACGCCTGCCCCCCTCGCCGGAGGGCCCTGGCAGCCCCCAGGCAGACCCAGG CCCCGGGACCCCACCACGTGCCCTGCCC	Synonyms:	BM-40; ON
E. coli Selection:       Kanamycin (25 ug/mL)         Fully Sequenced ORF:       >MC207404 representing NM_009242 Red=Cloning site Blue=0RF Orange=Stop codon         TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTCGGTACCGAGGAGATCTGCC GCCGCGATCGCC       ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGAGGGCCCTGGCAGCCCCTCAGCAGGACGAGG TTGCTGAGGAGATGGGAGATTGGAGGAGGGCGGTGCGGAGGCGGTCCACCCAC		Neomycin
Fully Sequenced ORF:       >MC207404 representing NM_009242 Red=Cloning site Blue=ORF Orange=Stop codon         TTTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC       ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGAGGGGCCCTGGCAGCCCCTCAGCAGACTGAAG TTGCTGAGGAGATAGTGGAGGAGAAACCGTGGTGGAGGAGACAGGGGTACCTGTGGGGGCCAACCCAGT CCAGGTGGAAATGGGAGAATTGCAGGAGGAGAACCGTGGTGGAGGAGGAGGAGGTGGGCTGACAACCCC TGCCAGGACCATCATTGCAAACATGGCAAGGGTGTGGAGGAGACAGGGGTACCTGTGGGGCACAACCACC TTCGACTCTTCCTGCCACTTGCAAACATGGCAAGGGTTGGAGGCGGCACAAACAA	Vector:	pCMV6-Entry (PS100001)
Red=Cloning site Blue=ORF Orange=Stop codon         TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGAGGAGATCTGCC         GCCGCGATCGCC         ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCCTGGCAGCCCCTCAGCAGACTGAAG         TTGCTGAGGAGATAGTGGAGGAGACCGTGGCAGGCAGCCGCGCAGCCCCCCAGCAGACCCAGT         CCAAGGTGAAATGGGAAAATGGGAAGACTTTGAGGACGGTGCACAGGGGACACGGGGTGCCAACCCCAGT         GCCAGGACCCCACCACCTGCTGCCATGGCGAGGCGGCGCAGAGGAACCGGTGGAGGAACACCCCCCT         GCCAGGACCCCACCACCTGCTGCCCATGGCGGAGTGTGGAGCGAGGACACACCCCCCATGGTGTGT         GCCAGGACCCCACCACCTGCCTGCCTTGCTCCCATTGCGCAGGCAAGAGGTATGCAGCAATGACAACAAGAC         CTTCGACTCTTCCTGCCACTTGCTGCCATGGCGAGTTTGCGAGGACGACCAACCA	E. coli Selection:	Kanamycin (25 ug/mL)
GCCGCGATCGCC         ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCCTGGCAGCCCCTCAGCAGACTGAAG         TTGCTGAGGAGATAGTGGAGGAGAACCGTGGTGGAGGAGACAGGGGTACCTGTGGGTGG	Fully Sequenced ORF:	
TTGCTGAGGAGATAGTGGAGGAGAGAGAGACCGTGGTGGAGGAGACAGGGGTACCTGTGGGTGCCAACCCAGT CCAGGTGGAAATGGGAAATGGGAGGAGACGGTGCAGAGGAGACGGGGGGGG		
Chromatograms: <a href="https://cdn.origene.com/chromatograms/ja1734_a04.zip">https://cdn.origene.com/chromatograms/ja1734_a04.zip</a> Restriction Sites:Sgfl-Mlul		TTGCTGAGGAGATAGTGGAGGAGGAAACCGTGGTGGAGGAGACAGGGGTACCTGTGGGTGCCAACCCAGT CCAGGTGGAAATGGGAGAATTTGAGGACGGTGCAGAGGAGAGACAGGGTGGTGGTGGCTGACAACCCC TGCCAGAACCATCATTGCAAACATGGCAAGGTGTGTGAGCTGGACGAGAGCAACACCCCCATGTGTGT GCCAGGACCCCACCAGCTGCCCTGCTCCCATTGGCGAGTTGAGAAGGTATGCAGCAATGACAACAAGAC CTTCGACTCTTCCTGCCACTTCTTTGCCACCAAGTGCACCCTGGAGGGCACCAAGAAGGGCCACAAGACC CACCTGGACTACATCGGACCATGCAAATACATCGCCCCCTGCCTG
Restriction Sites: Sgfl-Mlul		
	Chromatograms:	https://cdn.origene.com/chromatograms/ja1734_a04.zip
ACCN: NM_009242	<b>Restriction Sites:</b>	Sgfl-Mlul
	ACCN:	NM_009242



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	(NM_009242) Mouse Untagged Clone – MC207404
Insert Size:	909 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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC004638</u> , <u>AAH04638</u>
RefSeq Size:	2641 bp
RefSeq ORF:	909 bp
Locus ID:	20692
UniProt ID:	<u>P07214</u>
Cytogenetics:	11 33.04 cM
Gene Summary:	Appears to regulate cell growth through interactions with the extracellular matrix and cytokines. Binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell membranes. There are two calcium binding sites; an acidic domain that binds 5 to 8 Ca(2+) with a low affinity and an EF-hand loop that binds a Ca(2+) ion with a high affinity. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US