

Product datasheet for **MC226897**

Sparc (NM_001290817) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sparc (NM_001290817) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sparc
Synonyms: BM-40; ON
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226897 representing NM_001290817
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCCTGGCAGCCCTCAGACTGAAGTTG
CTGAGGAGATAGTGGAGGAGAAACCGTGGTGGAGGAGACAGGGTACCTGTGGGTGCCAACCCAGTCCA
GGTGGAAATGGGAGAATTTGAGGACGGTGCAGAGGAAACGGTCGAGGAGGTGGTGGCTGACAACCCCTGC
CAGAACCATCATTGCAAACATGGCAAGGTGTGTGAGCTGGACGAGAGCAACACCCCATGTGTGTGCC
AGGACCCACCAGCTGCCCTGCTCCCATTTGGCGAGTTTGAGAAGGTATGCAGCAATGACAACAAGACCTT
CGACTTCTCTGCCACTTCTTTGCCACCAAGTGCACCCTGGAGGGCACCAAGAAGGGCCACAAGCTCCAC
CTGGACTACATCGGACCATGCAAATACATCGCCCCCTGCCTGGATTCCGAGCTGACTGAATTCCTCTGC
GCATGCGTGACTGGCTCAAAAATGTCCTGGTACCTTGTACGAGAGAGATGAGGGCAACAACCTCCTCAC
TGAGAAGCAGAAGCTGCGTGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGAGGCTGGAGACCACCC
GTGGAGCTGTTGGCCGAGACTTTGAGAAGAATAACAATATGTACATCTTCCCTGTCCACTGGCAGTTTG
GCCAGCTGGATCAGACCCTATTGATGGTACCTGTCCCACTGAGCTGGCCCACTGCCGCTCCCTCC
CATCCCCATGGAACATTGCACCACAGTTTCTTTGAGACCTGTGACCTAGACAACGACAAGTACATTGCC
CTGGAGGAATGGCCGGCTGCTTTGGCATCAAGGAGCAGGACATCAACAAGGATCTGGTGATC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290817
Insert Size: 906 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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 style="list-style-type: none">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:	<u>NM_001290817.1</u> , <u>NP_001277746.1</u>
RefSeq Size:	2638 bp
RefSeq ORF:	906 bp
Locus ID:	20692
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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.