

Product datasheet for MR229108

Sparc (NM_001290817) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sparc (NM_001290817) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sparc
Synonyms:	BM-40; ON
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229108 representing NM_001290817 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCCTGGCAGCCCTCAGACTGAAGTTG
CTGAGGAGATAGTGGAGGAGAAACCGTGGTGGAGGAGACAGGGTACCTGTGGGTGCCAACCCAGTCCA
GGTGGAAATGGGAGAATTTGAGGACGGTGCAGAGGAAACGGTCGAGGAGGTGGTGGCTGACAACCCCTGC
CAGAACCATCATTGCAAACATGGCAAGGTGTGTGAGCTGGACGAGAGCAACACCCCATGTGTGTGCC
AGGACCCACAGCTGCCCTGCTCCCATTTGGCGAGTTTGAGAAGGTATGCAGCAATGACAACAAGACCTT
CGACTCTTCTGCCACTTCTTTGCCACCAAGTGCACCCTGGAGGGCACCAAGAAGGGCCACAAGCTCCAC
CTGGACTACATCGGACCATGCAAATACATCGCCCCCTGCCTGGATTCCGAGCTGACTGAATTCCTCTGC
GCATGCGTGACTGGCTCAAAAATGTCCTGGTACCTTGTACGAGAGAGATGAGGGCAACAACCTCCTCAC
TGAGAAGCAGAAGCTGCGTGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGAGGCTGGAGACCACCC
GTGGAGCTGTTGGCCGAGACTTTGAGAAGAATAACAATGTACATCTTCCCTGTCCACTGGCAGTTTG
GCCAGCTGGATCAGCACCTATTGATGGTACCTGTCCACACTGAGCTGGCCCACTGCGCGCTCCCCT
CATCCCCATGGAACATTGCACCACAGTTTCTTTGAGACCTGTGACCTAGACAACGACAAGTACATTGCC
CTGGAGGAATGGCCGGCTGCTTTGGCATCAAGGAGCAGGACATCAACAAGGATCTGGTGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229108 representing NM_001290817
 Red=Cloning site Green=Tags(s)

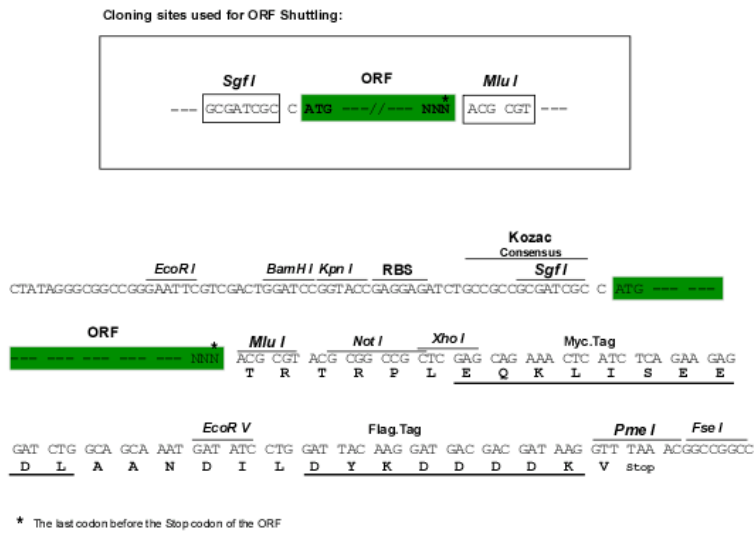
MRAWIFFLLCLAGRALAAPQTEVAEEIVEEETVVEETGVPVGANPVQVEMGEFEDGAEETVEEVVADNPC
 QNHHCXHGKVCVCELDESNTPMCVCQDPTSCPAPIGEFEKVCVSNNDKTFDSSCHFFATKCTLEGTKKGKHLH
 LDYIGPCKYIAPCLDSELTEFPLRMRDWLKNVLVTLYERDEGNLLTEKQKLRVKKIHENEKRLEAGDHP
 VELLARDFEKNYNYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYIA
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

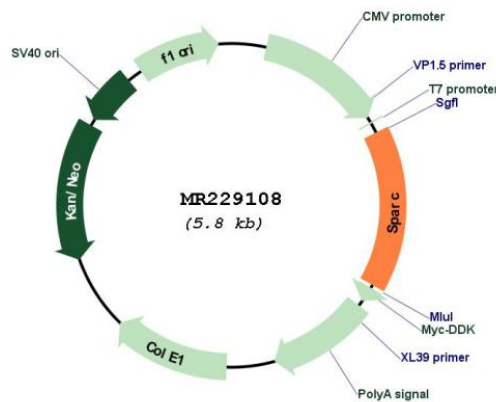
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290817

ORF Size: 903 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:	<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:	NM_001290817.1 , NP_001277746.1
RefSeq Size:	2638 bp
RefSeq ORF:	906 bp
Locus ID:	20692
Cytogenetics:	11 33.04 cM
MW:	34.8 kDa
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]