

Product datasheet for **MC217127**

Srf (NM_020493) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srf (NM_020493) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Srf
Synonyms:	AW049942; AW240594
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217127 representing NM_020493
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTACCGAGCCAAGCTGGGGCCGCGGGCTCTGGCCGGGGCTCGGCCCTGGGGGGCAACCTGAACC
GGACCCCGACGGGGCGCCGGGCGGCGGGGACTCGCGGGGGAACGGGGCCGGTCCCCGGGAA
CGGCGCGGGGCTCGGCCAGAGTCGTCGAGCGGGAGGCTGCAGCGGCAGCGCGCCACCGCCGGGGC
CTCTACAGCGGCAGCGAGGGCGACTCCGAGTCCGGCGAGGAGGAGCTGGGCGCCAGCGGCGGGCC
TCAAGCGGAGCCTGAGCGAGATGGAGCTCGGCGTGGTGGTGGTGGGCTGAGGCGGCGGGCGGGCCG
CGGGGGCTACGGGCCGGTGAAGCGCGGGTGAAGCGGGGCAAGCCGGGGAAGAAGACCGGGGCCGCGT
AAGATCAAGATGGAGTTCATCGACAACAAGCTGCGGCGCTACACGACCTCAGCAAGAGGAAGACGGGA
TCATGAAGAAGGCCTATGAGCTGCCACGCTGACAGGGACACAGGTGCTGTTGCTGGTGGCCAGTGAGC
AGGCCATGTGTATACCTTGGCCACCCGAAACTGCAGCCATGATCACCAGTGAGACCGCAAGGCCTG
ATTCAGACCTGCCTCAACTCGCCAGACTCTCCGCCCGCTCAGACCCACACAGACCAGAGAATGAGTG
CCTACTGGCTTTGAAGAGCCAGATCTCACCTACCAGGTGTCGGAATCTGACAGCAGTGGGGAACCAAGGA
CACACTGAAGCCAGCATTACAGTACCAACCTGCCGGTACCACCTCCACAATCCAGACAGCACCAGC
ACCTCTACCACATGCAAGTCAGCAGCGGCCCTCCTTCCCCATCACAACCTACCTGGCACCAGTGTCTG
CTAGTGTGAGCCCGAGCGCTGTGAGCAGTGCCACGGGACTGTGCTCAAGAGTACAGGCAGCGGCCCTGT
CTCCTCTGGGGCCCTTATGAGCTGCCTACCAGCTTACCCTCATGCCTGGTGGGCAAGTGGCCAGCAG
GTCCCTGTGAGCCATTATGAGTGCACAGGCCCCACAGCAAGCGTCTCCCTCTCGTGACAGCAGCACAG
ACCTCAGCAGACCTCCTCCAGCGGGACAGTGACGTTGCCCGCCACCATCATGACGTCGTGTGTACCCAC
AACTGTGGGTGGCCACATGATGTACCCTAGTCCCATGCAGTGATGATGCCCCACCTCAGGCCTGGCT
GATGGCAGCCTCACCGTCTCAATGCCTTCTCTCAGGCACCATCCACATGCAGGTGTCCACAGCCAGG
TCCAGGAGCCAGGTGGTGTCCCTCAGGTGTTCTGACAGCACCCTGGGACCGTGCAGATCCCTGTCTC
TGCAGTTCAGCTTACCAGATGGCTGTGATAGGGCAGCAAGCTGGGAGCAGCAGCAACCTCACCAGCTA
CAGGTGGTGAACCTGGATGCCACCCACAGCACCAAGAGTGAATGA

ACGGCTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_020493

Insert Size: 1515 bp

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).

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: [BC051950](#), [AAH51950](#)

RefSeq Size: 2634 bp

RefSeq ORF: 1515 bp

Locus ID: 20807

UniProt ID: [Q9JIM73](#)

Cytogenetics: 17 C

Gene Summary: SRF is a transcription factor that binds to the serum response element (SRE), a short sequence of dyad symmetry located 300 bp to the 5' of the site of transcription initiation of some genes (such as FOS) (PubMed:24732378). Together with MRTFA transcription coactivator, controls expression of genes regulating the cytoskeleton during development, morphogenesis and cell migration (PubMed:12732141, PubMed:19350017, PubMed:24732378). The SRF-MRTFA complex activity responds to Rho GTPase-induced changes in cellular globular actin (G-actin) concentration, thereby coupling cytoskeletal gene expression to cytoskeletal dynamics (PubMed:24732378). Required for cardiac differentiation and maturation (PubMed:15169892).[UniProtKB/Swiss-Prot Function]