

Product datasheet for **MR208120**

Srf (NM_020493) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR208120 representing NM_020493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTACCGAGCCAAGCTGGGGCCGCGGGCTCTGGCCGGGGCTCGGCCCTGGGGGGCAACCTGAACC
 GGACCCGACGGGGCGGCCGGCGGGCGGGACTCGCGGGGCGAACGGGGCCGGTCCCCGGGAA
 CGGCGCGGGGCTCGGCCAGAGTCGTCGAGCGGGAGGCTGCAGCGGCAGCGGCCACCGCCGGGGCC
 CTCTACAGCGGCAGCGAGGGCGACTCCGAGTCCGGCGAGGAGGAGGAGCTGGGCGCCGAGCGGCGGGCC
 TCAAGCGGAGCCTGAGCGAGATGGAGCTCGGCGTGGTGGTGGTGGGCTGAGGCGGGCGGGCGGGCCG
 CGGGGGCTACGGGCCGGTGAAGCGCGGGTGAAGCGGGGCAAGCCGGGGAAGAAGACCGGGGGCCGCGT
 AAGATCAAGATGGAGTTCATCGACAACAAGCTGCGGGCTACACGACCTCAGCAAGAGGAAGACGGGCA
 TCATGAAGAAGGCCTATGAGCTGCCACGCTGACAGGGACACAGGTGCTGTTGCTGGTGGCCAGTGAGAC
 AGGCCATGTGTATACCTTGGCCACCCGAAACTGCAGCCATGATCACCAGTGAGACCGGCAAGGCCTG
 ATTCAGACCTGCCTCAACTCGCCAGACTCTCCGCCCGCTCAGACCCACACAGACCAGAGAATGAGTG
 CCACTGGCTTTGAAGAGCCAGATCTCACCTACCAGGTGTCGGAATCTGACAGCAGTGGGGAACCAAGGA
 CACACTGAAGCCAGCATTACAGTACCAACCTGCCGGTACCACCTCCACAATCCAGACAGCACCAGC
 ACCTCTACCACATGCAAGTCAGCAGCGGCCCTCCTTCCCCATCACAACCTACCTGGCACCAGTGTCTG
 CTAGTGTGAGCCAGCGCTGTGAGCAGTGCCACGGGACTGTGCTCAAGAGTACAGGCAGCGGCCCTGT
 CTCCTCTGGGGCCCTTATGACAGTGCCTACCAGCTTACCCTCATGCCTGGTGGGACAGTGGCCAGCAG
 GTCCCTGTGAGGCCATTCATGTGACACAGGCCACAGCAAGCGTCTCCCTCTCGTGACAGCAGCACAG
 ACCTCACGACACTCCTCCAGCGGGACAGTGAAGTGGCCGACCATCATGACGTGCTGTACCCAGC
 AACTGTGGGTGGCCACATGATGTACCCTAGTCCCATGCAGTGTGATGCCCCACCTCAGGCCTGGCT
 GATGGCAGCCTCACCGTCTCAATGCCTTCTCTCAGGCACCATCCACATGCAGGTGTCCACAGCCAGG
 TCCAGGAGCCAGGTGGTGTCCCTCAGGTGTTCTGACAGCACCGTCTGGGACCGTGCAGATCCCTGTCTC
 TGCAGTTCAGCTTACCAGATGGCTGTGATAGGGCAGCAAGCTGGGAGCAGCAGCAACCTCACCGAGCTA
 CAGGTGGTGAACCTGGATGCCACCCACAGCACCAAGAGTGAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208120 representing NM_020493
 Red=Cloning site Green=Tags(s)

MLPSQAGAAAALGRGSALGGNLNRPTGRPGGGGTRGANGGRVPGNGAGLGQSRLERAAAAAAPTAGA
 LYSGSEGDSESGEEEEELGAERRGLKRSLSEMELGVVGGPEAAAAAGGYGPVSGAVSGAKPGKTRGRV
 KIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKLQPMITSETGKAL
 IQTCLNSPDSPPRSDPTTDQRMSATGFEEPDLTYQVSESDSSGETKDTLKPFTVNLPGTTSTIQTAPS
 TSTTMQVSSGSPFITNYLAPVSASVSPSAVSSANGTVLKSTGSGPVSSGGLMQLPTSFTLMPGGAVAQQ
 VPVQAIHVHQAPQQASPSRDSSTDLTQTSSSGTVLTPATIMTSSVPTTVGGHMMYSPHAVMYAPTSGLA
 DGSLTVLNAFSQAPSTMVSHSQVQEPGGVPQVFLTAPSGTVQIPVSAVQLHQMAVIGQQAGSSSNLTEL
 QVVNLDATHSTKSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_020493

ORF Size: 1512 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](#)

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).

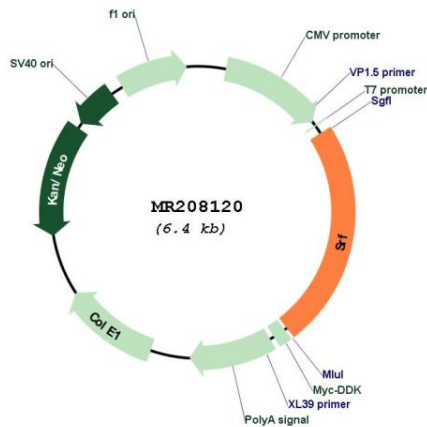
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_020493.2](#), [NP_065239.1](#)

RefSeq Size: 4093 bp
 RefSeq ORF: 1515 bp
 Locus ID: 20807
 UniProt ID: [Q9JIM73](#)
 Cytogenetics: 17 C
 MW: 51.7 kDa

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]

Product images:



Circular map for MR208120