

Product datasheet for RC232078

SR1 (SRI) (NM_001256891) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SR1 (SRI) (NM_001256891) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SR1
Synonyms: CP-22; CP22; SCN; V19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC232078 representing NM_001256891
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTACCCGGGGCATCCTGGCGCCGGCGGGTACTACCCAGGCGGGTATGGAGGGGCTCCCGGAG
 GGCCTGCGTTCCCGGACAACTCAGGATCCGCTGTATGGTTACTTTGCTGCTGTAGCTGGACAGGATGG
 GCAGATAGATGCTGATGAATTGCAGAGATGTCTGACACAGTCTGGCATTGCTGGAGGATACAAACCTTTT
 AACCTGGAGACTTGCCGGCTTATGGTTCAATGCTGGATAGAGATATGTCTGCCACAATGGGTTTCAATG
 AATTTAAAGAACTCTGGGCTGTACTGAATGGCTGGAGACAACACTTTATCAGTTTGACTGACTGACAGGAG
 TGGAACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATTTAGGTTGAGTCCCGAGGCT
 GTGAATCAATTGCAAAACGATACAGCACCAATGGAAAGATCACCTTCGACGACTACATCGCCTGCTGCG
 TCAAACAGAGGGCTTTACAGACAGCTTTCAAGACGGGATACTGCTCAGCAAGGTGTTGTGAATTTCC
 ATATGATGATGTAAGTCTTAGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232078 representing NM_001256891
 Red=Cloning site Green=Tags(s)

MAYPGHPGAGGGYYPGGYGGAPGGPAFPGQTQDPLYGYFAAVAGQDQIDADELQRCLTQSGIAGGYKPF
 NLETCLMVSMLDRDMSGTMGFNEFKELWAVLNGWRQHFISFDTDRSGTVDPQELQKALTTMGFRLSPQA
 VNSIAKRYSTNGKITFDDYIACCVKLRALTDSFRRRDTAQQGVVNFYDDVSLRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256891

ORF Size: 585 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:

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_001256891.1](#), [NP_001243820.1](#)

RefSeq Size: 932 bp

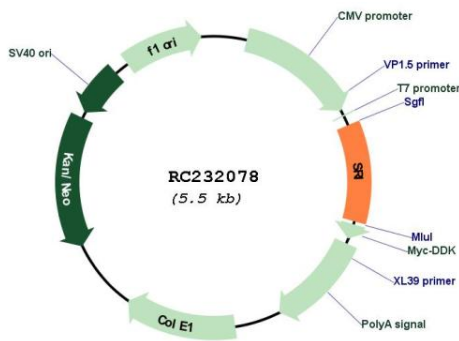
RefSeq ORF: 588 bp

Locus ID: 6717

UniProt ID: [P30626](#)

Cytogenetics: 7q21.12
Protein Families: Druggable Genome
MW: 21.8 kDa
Gene Summary: This gene encodes a calcium-binding protein with multiple E-F hand domains that relocates from the cytoplasm to the sarcoplasmic reticulum in response to elevated calcium levels. In addition to regulating intracellular calcium homeostasis it also modulates excitation-contraction coupling in the heart. Alternative splicing results in multiple transcript variants encoding distinct proteins. Multiple pseudogenes exist for this gene. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RC232078