

Product datasheet for **SC307807**

SR1 (SRI) (NM_198901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SR1 (SRI) (NM_198901) Human Untagged Clone
Tag:	Tag Free
Symbol:	SR1
Synonyms:	CP-22; CP22; SCN; V19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_198901 edited ATGCAGTATGGAGGGGCTCCCGGAGGGCCTGCGTTTTCCCGGACAACTCAGGATCCGCTG TATGGTTACTTTGCTGCTGTAGCTGGACAGGATGGGCAGATAGATGCTGATGAATTGCAG AGATGTCTGACACAGTCTGGCATTGCTGGAGGATACAAACCTTTTAACCTGGAGACTTGC CGGCTTATGGTTTCAATGCTGGATAGAGATATGTCTGGCACAATGGGTTTCAATGAATTT AAAGAACTCTGGGCTGTACTGAATGGCTGGAGACAACACTTTATCAGTTTTGACACTGAC AGGAGTGGAAACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATTTAGG TTGAGTCCCCAGGCTGTGAATTC AATTGCAAAACGATACAGCACCAATGGAAAGATCACC TTCGACGACTACATCGCCTGCTGCGTCAAACCTGAGGGCTTTACAGACAGCTTTCAAGA CGGGATACTGCTCAGCAAGGTGTTGTGAATTTCCCATATGATGATTTTCATTCAATGTGC ATGAGTGTTTAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_198901 unedited NGGCGCGTTTCAATTTGTATACGACTCATATAGGCGGCCGCGNATTCGCCAAAAGCAGTA TGGAGGGGCTCCCGNAGGCCTGCGTTTCCCGGACAAACTCAGGATCCGCTGTATGGTTA CTTTGCTGCTGTAGCTGGACAGGATGGGCAGATAGATGCTGATGAATTGCAGAGATGCT GACACAGTCTGGCATTGCTGGAGGATACAAACCTTTAACCTGGAGACTTGCCGGCTTAT GGTTCATGCTGGATAGAGATATGCTGGCACAATGGGTTTCAATGAATTTAAAGA CTGGGCTGTAATGGCTGGAGACAACACTTTATCAGTTTTGACACTGACAGGAGTGG AACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATTTAGGTTGAGTCC CCAGGCTGTGAATTCAATTGCAAAACGATACAGCACCAATGGAAGATCACCTTCGACGA CTACATCGCCTGCTGCGTCAAACGAGGGCTCTTACAGACAGCTTTCGAAGACGGGATAC TGCTCAGCAAGGTGTTGTGAATTTCCCATATGATGATTTCAATCAATGTGTATGAGTGT TAAATCAAGAGGAAGCTGCATGAATGTAATCAACATTCAACTGGAGCTCTCCTTTGCT TGTCTCTTTGCCTTCGGTAATATGTATAAACTTACATCAGACTTTCTTAAACAGCTG TTGTAAGTTTACTTTATGTACAACGAAGTTTTGTTTTAGTTTTGATAATAAATTC TTTGGAACTTAATAAGATCTAGTCTGTTACACCATTTAGAACTTTCCTGAGCCATTATC AGTCATGCCTATTTTCTTGCTAAAACA
Restriction Sites:	Please inquire
ACCN:	NM_198901
Insert Size:	2000 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_198901.1</u> , <u>NP_944490.1</u>
RefSeq Size:	2012 bp
RefSeq ORF:	552 bp
Locus ID:	6717
UniProt ID:	<u>P30626</u>
Cytogenetics:	7q21.12
Protein Families:	Druggable Genome

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]

Transcript Variant: This variant (2) differs in the 5' UTR and coding region and uses an alternate translational start codon, compared to variant 1. These differences result in a protein (isoform B) with a shorter and distinct N-terminus, compared to isoform A.