

Product datasheet for **RG231989**

SR1 (SRI) (NM_001256892) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SR1 (SRI) (NM_001256892) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SRI
Synonyms: CP-22; CP22; SCN; V19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231989 representing NM_001256892
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTATGGAGGGCTCCCGAGGGCTGCGTTTCCCGACAACTCAGGATCCGCTGTATGGTTACT
TTGCTGCTGTAGCTGGACAGGATGGGCAGATAGATGCTGATGAATTGCAGAGATGCTGACACAGTCTGG
CATTGCTGGAGGATACAAACCTTTAACCTGGAGACTTGCCGGCTTATGGTTTCAATGCTGGATAGAGAT
ATGTCTGGCACAATGGGTTTCAATGAATTTAAAGAACTCTGGGCTGTACTGAATGGCTGGAGACAACACT
TTATCAGTTTTGACACTGACAGGAGTGGACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAAT
GGGATTTAGTTGAGTCCCAGGCTGTGAATTCATTGCAAAACGATACAGCACCAATGGAAGATCACC
TTCGACGACTACATCGCCTGCTGCGTCAAACCTGAGGGCTTTACAGACAGCTTTCGAAGACGGGATACTG
CTCAGCAAGGTGTTGTGAATTTCCCATATGATGATGTAAGTCTTAGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231989 representing NM_001256892
Red=Cloning site Green=Tags(s)

MQYGGAPGGPAPFPQQTQDPLYGYFAAVAGQDQGIDADELQRCLTQSGIAGGYKPFNLETCLRMVSMMLDRD
MSGTMGFNEFKELWAVLNGWRQHFISFDTDRSGTVDPQELQKALTTMGFRLSPQAVNSIAKRYSTNGKIT
FDDYIACCVKLRALTDSFRRRDTAQQGVVNFYDDVSLRN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

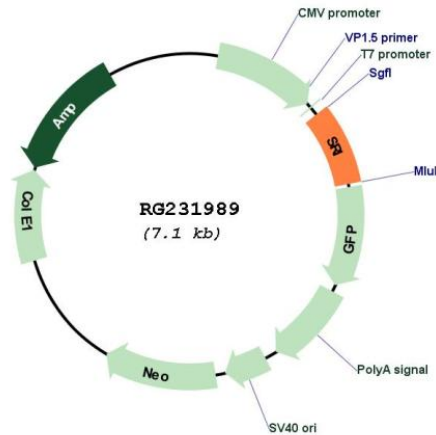


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001256892

ORF Size: 540 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:	<u>NM_001256892.1</u> , <u>NP_001243821.1</u>
RefSeq Size:	908 bp
RefSeq ORF:	543 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]