

## Product datasheet for **RG232078**

### 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:** 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:** >RG232078 representing NM\_001256891  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTACCCGGGGCATCCTGGCGCCGGCGGGTACTACCCAGGCGGGTATGGAGGGGCTCCCGGAG  
GGCCTGCGTTTCCCGGACAACTCAGGATCCGCTGTATGGTTACTTTGCTGCTGTAGCTGGACAGGATGG  
GCAGATAGATGCTGATGAATTGCAGAGATGTCTGACACAGTCTGGCATTGCTGGAGGATACAAACCTTTT  
AACCTGGAGACTTGCCGGCTTATGGTTCAATGCTGGATAGAGATATGTCTGGCACAATGGGTTTCAATG  
AATTTAAAGAACTCTGGGCTGTACTGAATGGCTGGAGACAACACTTTATCAGTTTGACTGACAGGAG  
TGGAACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATTTAGGTTGAGTCCCGAGGCT  
GTGAATCAATTGCAAAACGATACAGCACCAATGGAAAGATCACCTTCGACGACTACATCGCCTGCTGCG  
TCAAACAGAGGGCTTTACAGACAGCTTTCGAAGACGGGATACTGCTCAGCAAGGTGTTGTGAATTTCC  
ATATGATGATGTAAGTCTTAGAAAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG232078 representing NM\_001256891  
 Red=Cloning site Green=Tags(s)

MAYPGHPGAGGGYYPGGYGGAPGGPAFPGQTQDPLYGYFAAVAGQDQGQIDADELQRCLTQSGIAGGYKPF  
NLETCLMVSMLDRMSGTMGFNEFKELWAVLNGWRQHFISFDTDRSGTVDPQELQKALTTMGFRLSPQA  
VNSIAKRYSTNGKITFDDYIACCVKLRALTDSEFRRTAQQGVVNFYDDVSLRN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

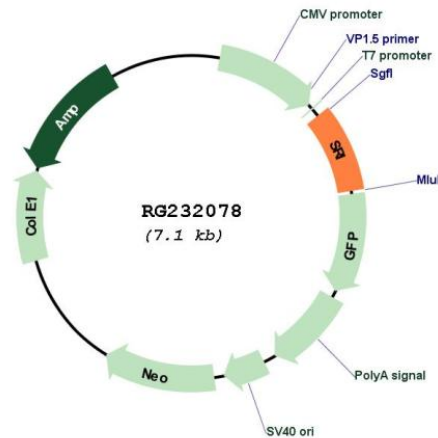


[View online »](#)

Cloning Scheme:



Plasmid Map:



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

**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]