

## Product datasheet for **RG203130**

### SR1 (SRI) (NM\_003130) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SR1 (SRI) (NM\_003130) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SR1  
**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:** >RG203130 representing NM\_003130  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTACCCGGGGCATCCTGGCGCCGGCGGGTACTACCCAGGCGGGTATGGAGGGGCTCCCGGAG  
 GGCCTGCGTTTCCCGGACAACTCAGGATCCGCTGTATGGTTACTTTGCTGCTGTAGCTGGACAGGATGG  
 GCAGATAGATGCTGATGAATTGCAGAGATGTCTGACACAGTCTGGCATTGCTGGAGGATACAAACCTTTT  
 AACCTGGAGACTTGCCGGCTTATGGTTCAATGCTGGATAGAGATATGTCTGGCACAATGGGTTTCAATG  
 AATTTAAAGAACTCTGGGCTGTACTGAATGGCTGGAGACAACACTTTATCAGTTTGACTGACAGGAG  
 TGGAACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATTTAGGTTGAGTCCCGAGGCT  
 GTGAATCAATTGCAAAACGATACAGCACCAATGGAAAGATCACCTTCGACGACTACATCGCCTGCTGCG  
 TCAAACAGAGGGCTTTACAGACAGCTTTCGAAGACGGGATACTGCTCAGCAAGGTGTTGTGAATTTCC  
 ATATGATGATTTCAATCAATGTGTCATGAGTGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG203130 representing NM\_003130  
 Red=Cloning site Green=Tags(s)

MAYPGHPGAGGGYYPGGYGGAPGGPAFPGQTQDPLYGYFAAVAGQDQGQIDADELQRCLTQSGIAGGYKPF  
 NLETCLMVSMLDRDMSGTMGFNEFKELWAVLNGWRQHFISFDTDRSGTVDPQELQKALTTMGFRLSPQA  
 VNSIAKRYSTNGKITFDDYIACCVKLRALTDSEFRRTAQQGVVNFYDDFIQCVMSV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_003130

**ORF Size:** 594 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\\_003130.4](#)

**RefSeq Size:** 2030 bp

**RefSeq ORF:** 597 bp

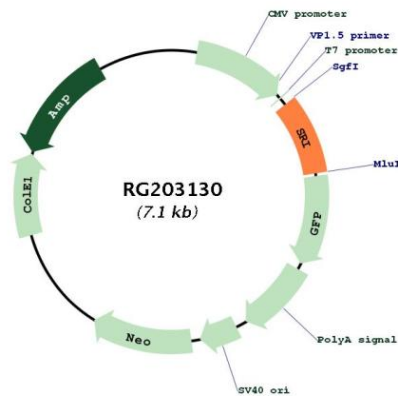
**Locus ID:** 6717

**UniProt ID:** [P30626](#)

**Cytogenetics:** 7q21.12

Domains:	EFh
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]

### Product images:



Circular map for RG203130