

## Product datasheet for **RG208596**

### Serum Response Factor (SRF) (NM\_003131) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serum Response Factor (SRF) (NM_003131) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serum Response Factor
Synonyms:	MCM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG208596 representing NM\_003131  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTACCGACCCAAGCTGGGGCCGGCGGCTCTGGCCGGGGCTCGGCCCTGGGGGCGAGCCTGAACC  
 GGACCCGACGGGGCGCCGGGCGGGCGGGGACACGCGGGGCTAACGGGGCCGGTCCCGGGAA  
 TGGCGCGGGGCTCGGGCCGGCCGCTGGAGCGGAGGCTGCGGACGCGCGCAACACCCCGCGCCC  
 ACCGCGGGGGCCCTCTACAGCGGACGAGGGCGACTCGGAGTCGGGCGAGGAGGAGAGCTGGGCGCCG  
 AGCGGGCGCGCCTGAAGCGGAGCCTGAGCGAGATGGAGATCGGTATGGTGGTGGTGGGCGGAGGCGTC  
 GGCAGCGGCCACCGGGGCTACGGGCGGTGAGCGGCGGCTGAGCGGGGCAAGCCGGTAAGAAGACC  
 CGGGGCCGCTGAAGATCAAGATGGAGTTCATCGACAACAAGCTGCGGCGCTACACGACCTTCAGCAAGA  
 GGAAGACGGGCATCATGAAGAAGCCTATGAGCTGTCCACGCTGACAGGGACACAGGTGCTGTTGCTGGT  
 GGCCAGTGAGACAGGCCATGTGTATACCTTTGCCACCCGAAAATGCAGCCCATGATCACCAGTGAGACC  
 GGCAAGGCACTGATTAGACCTGCCTCAACTCGCCAGACTCTCCACCCGTTTCAGACCCACAACAGACC  
 AGAGAATGAGTGCCACTGGCTTTGAAGAGACAGATCTCACCTACCAGGTGTCGGAGTCTGACAGCAGTGG  
 GGAGACCAAGGACACACTGAAGCCGGCGTTACAGTCACCAACCTGCCGGGTACAACCTCCACCATCCAA  
 ACAGCACCTAGCACCTCTACCACATGCAAGTCAGCAGCGGCCCTCCTTTCCATCACCAACTACCTGG  
 CACCAGTGTCTGCTAGTGTGAGCCAGTGTGTGAGCAGTGCCTACAGCTTACCCTCATGCCTGGTGGGGCA  
 CAGCGGCCCTGTCTCCTCTGGGGCCTTATGACAGTGCCTACCAGCTTACCCTCATGCCTGGTGGGGCA  
 GTGGCCAGCAGGTCCCAGTGCAGGCCATTCAAGTGCACCAGGCCACAGCAAGCGTCTCCCTCCCGTG  
 ACAGCAGCACAGACCTCACGAGACCTCCTCCAGCGGACAGTGCCTGCCCCCACCATCATGACCGTC  
 ATCCGTGCCACAACTGTGGGTGGCCACATGATGTACCCTAGCCCGCATGCGGTGATGATGCCCCACC  
 TCGGGCCTGGGTGATGGCAGCCTCACCGTGTGAATGCCTTCTCCAGGACCATCCACCATGCAGGTGT  
 CACACAGCCAGTCCAGGAGCCAGTGGCGTCCCCAGGTGTTCTGACAGCATCATCTGGGACAGTGCA  
 GATCCCTGTTTCAGCAGTTCAGCTCCACCAGATGGCTGTGATAGGGCAGCAGGCCGGGAGCAGCAAC  
 CTCACCAGACTACAGGTGGTGAACCTGGACACCGCCACAGCACCAGAGTGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208596 representing NM\_003131  
 Red=Cloning site Green=Tags(s)

MLPTQAGAAAALGRGSALGGSLNRTPTGRPGGGGTRGANGGRVPGNGAGLGPGRLEREAAAAAATTPAP  
 TAGALYSGSEGDSESGEEEEELGAERRGLKRSLSEMEIGMVVGGPEASAAATGGYGPVSGAVSGAKPGKKT  
 RGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKLQPMITSET  
 GKALIQTLNSPDSPPRSDPTTDQRMSATGFEETDLTYQVSESDSSGETKDLKPAFTVTNLPGTTSTIQ  
 TAPSTSTMQVSSGSPFPITNYLAPVSASVSPSAVSSANGTVLKSTGSGPVSSGGLMQLPSTFTLMPGGA  
 VAQQVPVQAIQVHQAPQQASPSRDSSTDLTQTSSSGTVLTPATIMTSSVPTTVGGHMMYSPHAVMYAPT  
 SGLGDGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTASSGTVQIPVSAVQLHQMVAIGQQAGSSSN  
 LTELQVVNLDTAHSTKSE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_003131

**ORF Size:** 1524 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\\_003131.4](#)

**RefSeq Size:** 4343 bp

**RefSeq ORF:** 1527 bp

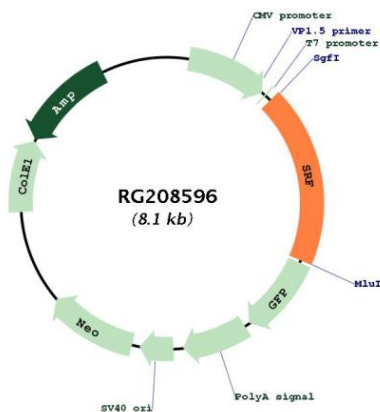
**Locus ID:** 6722

**UniProt ID:** [P11831](#)

**Cytogenetics:** 6p21.1

Domains:	MADS
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	MAPK signaling pathway
Gene Summary:	This gene encodes a ubiquitous nuclear protein that stimulates both cell proliferation and differentiation. It is a member of the MADS (MCM1, Agamous, Deficiens, and SRF) box superfamily of transcription factors. This protein binds to the serum response element (SRE) in the promoter region of target genes. This protein regulates the activity of many immediate-early genes, for example c-fos, and thereby participates in cell cycle regulation, apoptosis, cell growth, and cell differentiation. This gene is the downstream target of many pathways; for example, the mitogen-activated protein kinase pathway (MAPK) that acts through the ternary complex factors (TCFs). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

### Product images:



Circular map for RG208596