

## Product datasheet for **MR202755**

### Sfrs10 (BC086795) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sfrs10 (BC086795) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sfrs10
Synonyms:	D16ErtD266e, SIG-41, TRA2B, TRA2beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202755 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGACAGCGGCGAGCAGAACTACGGCGAGCGGGAATCCCGTTCTGCTTCCCGAAGTGAAGTGCTC  
ACGGATCGGGGAAATCTGCACGGCATAACCTGCAAGGTCTCGCTCCAAGGAAGACTCAAGGCGTTCTAG  
ATCAAAGTCCAGGTCCAGGTCTGAATCTAGGTCTAGATCCAGAAGAAGTTCTAGAAGGCATTATAACAAG  
TCAGATCAGATCTCGCTCGCATAGACGATCCCGGAGCAGGTCTACAGCCGAGATTATCGCAGGCGCC  
ACAGCCACAGCCATTCTCCCATGTCTACTCGAAGGCGTCATGTTGGGAACCGGGCAAATCCTGACCCCAA  
CTGTTGTCTTGGCGTGTGGGTTGAGCTTATACACCACAGAAAGAGACCTAAGAGAAGTGTCTCTAAA  
TATGGCCCCATTGCTGATGTGTCTATTGTATATGACCAGCAATCTAGACGTTCAAGAGGATTTGCCTTTG  
TATATTTTAAAAATGTAGACGATGCCAAGGAAGCTAAAGAACGTGCCAATGGAATGGAGCTTGATGGGCG  
TCGAATTAGAGTCGATTTCTCTATAACAAAAAGGCCCATACCCCAACACCAGGAATTTATATGGGGAGA  
CCCACTTATGGCAGTTCTCGCCCGGAGACTATTATGACAGAGGGTACGATCGGGGT

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202755 protein sequence  
 Red=Cloning site Green=Tags(s)

MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRKEDSRRSRKSRSRSESRRSRRSSRRHYTR  
 SRSRSRSHRRSRSYSRDYRRRHSHSHSPMSTRRRHVGNRANPDNCCLVGFGLSLYTTTERDLREVF  
 SK YGPIADVSIVYDQQSRRSRGFVYFENVDDAKEAKERANGMELDGRRI RVDFSITKRPHPTPGIYMGR  
 PTYGSSRRRDYDRGYDRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: BC086795

ORF Size: 687 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:** [BC086795](#), [AAH86795](#)

**RefSeq Size:** 2012 bp

**RefSeq ORF:** 689 bp

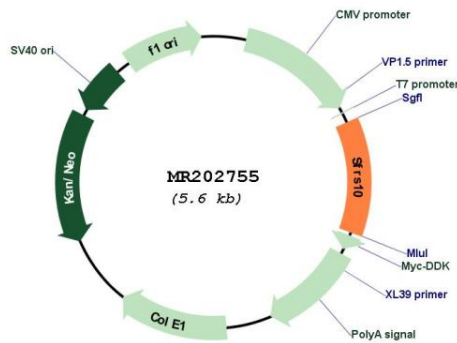
**Locus ID:** 20462

**Cytogenetics:** 16 13.18 cM

**MW:** 26.7 kDa

**Gene Summary:** Sequence-specific RNA-binding protein which participates in the control of pre-mRNA splicing. Can either activate or suppress exon inclusion. Acts additively with RBMX to promote exon 7 inclusion of the survival motor neuron SMN2. Activates the splicing of MAPT/Tau exon 10. Alters pre-mRNA splicing patterns by antagonizing the effects of splicing regulators, like RBMX. Binds to the AG-rich SE2 domain in the SMN exon 7 RNA. Binds to pre-mRNA (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202755