

Product datasheet for **MG225665**

Srsf10 (NM_010178) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srsf10 (NM_010178) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Srsf10
Synonyms: Fusip1; FUSIP2; Nssr; NSSR1; NSSR2; Sfrs13a; SRrp40; Srsf13a; TASR; TASR1; TASR2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225665 representing NM_010178
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTC**CCG**GATACCTGCGCCCCCTAACACGTCTCTGTT**CGT**CAGGAACGTGGCGGACGACACCAGGTCTG
 AAGATTTACGTCGGGAATTTGGTCGTTATGGTCCAATAGTAGATGTTTATGTCCCACTTGATTTCTACAC
 TCGGCGTCCAAGAGGATTTGCATATGTTCAATTTGAGGATGTT**CGT**GATGCTGAAGACGCTTTACATAAT
 TTGGACAGAAAA**TGG**ATTTGTGGCGTCAGATTGAAATCCAGTTCGCACAGGGGGATCGGAAGACACCAA
 ATCAAATGAAAGCCAAGGAAGGGAGGAATGTATACAGCTTTCAGGATATGACGATTATGACCGATATAG
 ACGCTCTCGAAGCCGGAGTTATGAAAGGAGAAGATCGAGGAGTCGCTCCTTTGATTATACTATAGGAGA
 TCTTACAGTCCTAGAAACAGTAGACCGACTGGAAGACCACGGCGTAGCCGAAGCCATTCCGACAATGATA
 GACCAAACTGCAGCTGGAATACCCAGTACAGTTCTGCTTACTACACTTCAAGAAAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225665 representing NM_010178
 Red=Cloning site Green=Tags(s)
 MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVVRDAEDALHN
 LDRKWICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSRYDDYDRYRRSRRSYERRRSRFSFYDNYRR
 SYSPRNSRPTGRPRRSRSHSDNDRPNCSWNTQYSSAYYTSRKI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM_010178

ORF Size: 549 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_010178.3](#)

RefSeq Size: 3415 bp

RefSeq ORF: 552 bp

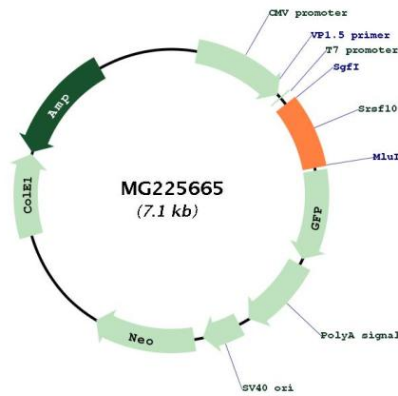
Locus ID: 14105

UniProt ID: [Q9R0U0](#)

Cytogenetics: 4 D3

Gene Summary: Splicing factor that in its dephosphorylated form acts as a general repressor of pre-mRNA splicing. Seems to interfere with the U1 snRNP 5'-splice recognition of SNRNP70. Required for splicing repression in M-phase cells and after heat shock. Also acts as a splicing factor that specifically promotes exon skipping during alternative splicing. Interaction with YTHDC1, a RNA-binding protein that recognizes and binds N6-methyladenosine (m6A)-containing RNAs, prevents SRSF10 from binding to its mRNA-binding sites close to m6A-containing regions, leading to inhibit exon skipping during alternative splicing (By similarity). May be involved in regulation of alternative splicing in neurons (PubMed:10583508).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225665