

Product datasheet for MR228337

Srsf10 (NM_001284196) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srsf10 (NM_001284196) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Srsf10
Synonyms: Fusip1; FUSIP2; Nssr; NSSR1; NSSR2; Sfrs13a; SRrp40; Srsf13a; TASR; TASR1; TASR2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228337 representing NM_001284196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCCCGATACCTCGGCCCCCTAACACGTCTCTGTTCGTCAGGAACGTGGCGGACGACACCAGGTCTG
 AAGATTTACGTCGGGAATTTGGTCGTTATGGTCCAATAGTAGATGTTTATGTCCCACTTGATTTCTACAC
 TCGGCGTCCAAGAGGATTTGCATATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTTACATAAT
 TTGGACAGAAAATGGATTTGTGGCGTCAGATTGAAATCCAGTTCGCACAGGGGGATCGGAAGACACCAA
 ATCAAATGAAAGCCAAGGAAGGGAGGAATGTATACAGCTTTCACGATATGACGATTATGACCGATATAG
 ACGCTCTCGAAGCCGGAGTTATGAAAGGAGAAGATCGAGGAGTCGCTCCTTTGATTATACTATAGGAGA
 TCTTACAGTCCTAGAAATAGACCGACTGGAAGACCACGGCGTAGCCGAAGCCATTCGACAATGATAGAC
 CAAACTGCAGCTGGAATACCCAGTACAGTTCTGCTTACTACACTCAAGAAAGATC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228337 representing NM_001284196
 Red=Cloning site Green=Tags(s)

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHN
 LDRKWICGRQIEIQFAQGDRTKPNQMKAKEGRNVYSSRYDDYDRYRRSRSRSYERRRSRSDYNYRR
 SYSPRNRPTGRPRRSRSHSDNDRPNCSWNTQYSSAYYTSRKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

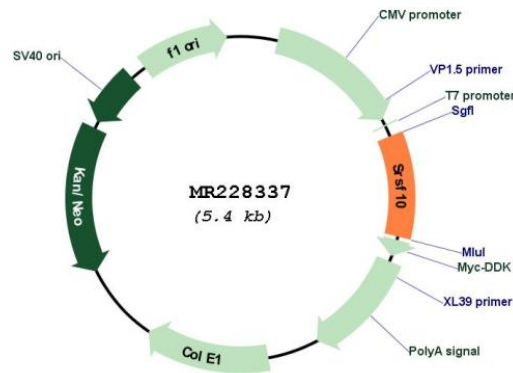


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001284196

ORF Size: 546 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:	<ol style="list-style-type: none">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:	<u>NM_001284196.1</u> , <u>NP_001271125.1</u>
RefSeq Size:	3433 bp
RefSeq ORF:	549 bp
Locus ID:	14105
UniProt ID:	<u>Q9R0U0</u>
Cytogenetics:	4 D3
MW:	22.6 kDa
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]