

Product datasheet for **MR209379**

Srrm4 (NM_026886) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Srrm4
Synonyms:	1500001A10Rik; B230202K19Rik; bv; mKIAA1853; nSR100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209379 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTAGCCTGCAGCAGGCGGAGAAACAGCTGTTTGAGAAGTTCTGGAAAGGACCTTCAAAGCAGTGG
 CCACTCCGCGTCCCGAGAGCATCATCGTCGCCAGTATCACAGCCCCGAAGCCGATGCCAAGGACAGAGCC
 CCAGAGCAGTCTCTTGCTCCAGATCAGGATGGACCTTCAGAAAAGCTGGGCCAACATCTGGCCCCCTGAG
 GCCCTGGGTACCAACAGCTGGGGAAGAGAGAAGGCCTGCAGGGAAGTGGATCCTGCCAGAGCACACAGTG
 CCTCTCAAGACAGAGACCCGACACACACCTTCTCCAGGGGAAAAAGAAAAAGAAATCAACCAG
 GAAAAAGAGGAGGAGTCCCCGTCTACAGCCCATCACCAGTCAAGAAAGAAAGAAAGAAAGTCCAAG
 AAACATAAGCGACACAGGTCTTTCTCAAGAAAAGGAGACACAGCTCCTGTAGCCCTAAAAGCAAAAGAC
 GGGAAGAGAAGAGGCACAAAAACAATCTCGAAGCCGGAAGTCTCACCGACATAGACATACCCGATGCC
 CTCAAGGTCCAGAGTTCGGAAGTGCCTCCCCAGCTGCGAGAGCAGGCATCGAGGTGGTCCCTGAG
 GAAGGGCGGAAATCCCGCCGAACACACTCCCGCGCTGCTCCAAGAACCACTGCAAGGTGAGCCAGACG
 CCCGGTCCAGCCACCTGCCAGCCAGCCCCCTCCGAGGCTCGGTTCTGTGAGCCAGGGGTGTAATCAC
 TGGGTGCGGGTCCGCGCTGACCTCTTAGCAATCGGCCAGCCCTCTCGCCGCCACCCGAGGGCGCTCG
 CAGGAGTACGACTCGGCAATGACAGCTCCTCGCCGCCCTCCACGCAAAACAGCTCGGCCAGGTCTCGGG
 GCCAGGAGAAGGGGAGTCCCGTGGGGATCTAAGCAAGAGTGCAGACCTCAACTGTGGCAACACCTCCGA
 TTCAGGGAAGTCTTACCACCTCCTCCCCCAGAACAAGGGGGTGTCTTGAGAGTGTCTCTCCCGCC
 TGCAGGAGCAGAGAGTCAAGAGGGTTTCACTCCCATGTCTCCAGTGTGCAGAGGTGAAGAAGTCTAGTT
 TGGTCCCATCCACAGCCGGAGCTCCCCATCAAAGAGTGTCTCCGTAGCTCCTCTACACAGCACTCG
 ATCCTCCAGTCCCTCATCCAGTCCCAAAACCCAGAGCTTCCCCAGGTACACCCGAGTCCGTCCACC
 TCCTCTGAAAAAGGTCTACTCTCGCTCTCCAGCTATTCTGTCGAAGTCTGGCAAGAGGAGCCACCTA
 GCAGAAGTCCAGGTCTCGTGAAGTCCAGCTACTCTCGTACAGCCCCAGCAGGGAACGGGACCTAAA
 GTATGGTGAGAAAGAACCACAGCCCCGAGAAGTGCAGCAGGAGGCGACGGTCTACTACCCATGAGG
 AAGCGCAGGAGAGACTCCCCAAGCCACCTGGAGGCTCGGAGGATAACCAGTGCCCGCAAAACGCCCATCC
 CCTACTACCGACCCAGCCCTCCTCGTCCAGCAGCCTCAGCAGCGCTCCTCCTGGTACAGCAGCAGCAG
 CAGCAGCAGCAGCAGTACAGCCGCTCCCTAGCCGAGTTACTCCCGGAGCCGAGTCCAGTCCGAGC
 CACAGCAGCCGGAGCCAGACCCGAGCAGGACGCGGACCAGCCGAGCTCCAGTTCTCGAGCCTCAGCC
 TGGGCTCCCGGAGCCGAGTCCGAACCGGAGCCTGAGCTACAGCTCGGCAGAAAGCTATGCCAGCAGCAG
 GCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209379 protein sequence
 Red=Cloning site Green=Tags(s)

MASLQQGEKQLFEKFWKGTFAVATPRPESIIIVASITARKMPRTEPQSSLLLPDQDGPSEKLGQHLAPE
 ALGTNSWGREKACRELDPARAHASQDRDPTPPSSRGKKKKKSTRKKRRRSPSYSPVKKKKKSSK
 KHKRHRFSKRRHSSCSPKSKRREEKRHKQSRSRKSHRHRHRCPSRSQSELSPSCESRHRGRSPE
 EGRKSRRTHSRRCCKNHCKVSPDARSSHLPSQPLPRLGFLSARGVITGSGSAADLFKSASPLAATRGRS
 QEYDSGNDTSSPPSTQTSSARSRGQKGSPPGDLKSRDLNCGNTSDSGNSFTTSSPQNKGALETVSPA
 CRSRESRGFQSPCLQCAEVKKSSLVPSTARSSPIKECSRSSSYSTRSSSPSSRSPNPRASPRYTRSRST
 SSEKRSYSRSPSYSSKSGKRSPSSRSRSPSYSRYSRSPRERDLKYGEKEPQPRERARRRRRSYSPMR
 KRRRDSPSHLEARRITSARKRPIPYRPSPPSSSSSLSSASSWYSSSSSSSSSRSPSRYSRSPSRSPRS
 HSSRSQTRSRTRSRSSSSRSLSLGSRSRNRSLSYSSAESYASTRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026886

ORF Size: 1824 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_026886.3](#), [NP_081162.1](#)

RefSeq Size: 7476 bp

RefSeq ORF: 1827 bp

Locus ID: 68955

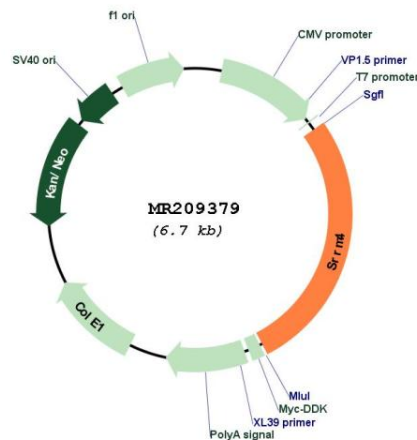
UniProt ID: [Q8BKA3](#)

Cytogenetics: 5 F

MW: 67.9 kDa

Gene Summary: Splicing factor specifically required for neural cell differentiation. Acts in conjunction with nPTB/PTBP2 by binding directly to its regulated target transcripts and promotes neural-specific exon inclusion in many genes that function in neural cell differentiation. Required to promote the inclusion of neural-specific exon 10 in nPTB/PTBP2, leading to increased expression of neural-specific nPTB/PTBP2. Also promotes the inclusion of exon 16 in DAAMI in neuron extracts (PubMed:19737518). Promotes alternative splicing of REST transcripts to produce REST isoform 2 (REST4) with greatly reduced repressive activity, thereby activating expression of REST targets in neural cells (PubMed:21884984). Plays an important role during embryonic development as well as in the proper functioning of the adult nervous system. Regulates alternative splicing events in genes with important neuronal functions (PubMed:25838543).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209379