

Product datasheet for **MR217383**

Srrt (NM_031405) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srrt (NM_031405) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Srrt
Synonyms:	2810019G02Rik; Ars2; Asr2; ASR2A; ASR2B; ASR2C; ASR2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR217383 representing NM_031405
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGGTGACAGTGATGATGAATACGACCGAAGACGCAGGGACAAATTTCAAGAGAGCGCAGCGATTATG
 ACCGTTCCCGGAAAGGGATGAAAGACGGCGAGGGGACGATTGGAATGACCGAGAGTGGGACCGTGCCG
 GGAGCGCCGAGTCGGGGTGAATATCGAGACTACGACAGGAACCGAAGGGAGCGCTTCTCTCCCCCTCGA
 CACGAACTAAGCCCCCCCCAGAAGCGCATGCGGAGAGACTGGGATGAGCAGACTCTGACCCATACCACA
 GTGGCTATGACATGCCCTATGCTGGGGGGGTGGGGACCAACTTACGGCCCCCTCAGCCCTGGGGCCA
 CCCAGACGTCCACATCATGCAGCACCATGTCTGCCATCCAGGCCAGGCTGGGCAGCATCGCAGAGATT
 GACTTGGGGGTGCCACCGCCATAATGAAGTCCTTCAAAGAGTTCCTCTGTCTCTGGATGACTCTGTGG
 ATGAGACAGAGGCAGTTAAACGCTACAATGACTACAAGCTGGACTCCGAAGGCAGCAGATGCAGGACTT
 TTTCTGGCTCACAAGACGAGGAGTGGTTCGATCTAAGTACCACCCTGATGAGGTGGGAAAGCGTCGG
 CAGGAGGCCCGGGGGCCCTGCAGAACCGCTGAAGGTGTTCTGTCCCTCATGGAGAGTGGCTGGTTTG
 ATAACCTTCTCTTGACATAGACAAAGCTGATGCCATTGTCAAGATGCTAGATGCAGCTGTCATTAGAT
 GGAAGGTGGCACAGAAACGATCTCCGAATTTGGAGCAGGAGGAGGAGGAACAGGCAGGCAAGACT
 GGGGAGGCCAGCAAGAAAGAGGAGGCCGCTGCTGGACCAGCCCTGGGAGAAGGAGAGCGCAAAGCCAATG
 ATAAGGATGAGAAGAAAGAGATGGAACAGGCTGAGAATGACAGTTCCAACGATGACAAAATAAAAA
 ATCTGAGGGTGTGGGGACAAGGAGGAGAAGAAAGAGGCTGAGAAGGAAGCCAAAAGAGCAAGAAG
 CGGAACAGGAAGCAGAGTGGCGATGACAGCTTCGATGAGGGCAGTGTGTCGAGTCTGAGTCCGAGTCTG
 GGGTGGCCAGGCCAGGAGGAGAAGGAGGAGGCCGAAGAAGCACTTAAAGAAAAGGAGAAGCCAAAAGA
 GGAGGAGAAGGAGAAGCCTAAGGATGCTGCAGGTTGGAGTGAAGCCCCGGCCCTTGCATAAAGACTTGC
 TCTCTTTCATGCGCAACATCGCACCAACATTTCAAGGGCAGAGATCATTTCTTTGTAACGATACC
 CAGGCTTTATGCGAGTGGCACTGTGAGGCCAGCCAGAGAGGAGGTTTTTTTCGCCGTGGCTGGGTGAC
 TTTTGACCGCAGTGTTAACATTAAGGAGATCTGTTGGAACCTGCAGAACATTCGGCTCCGGGAGTGTGAA
 CTGAGTCCCGGTGTGAACAGAGACCTGACCCGTCGTGTCGCAACATAAATGGCATTACACAGCACAAGC
 AGATAGTGCCAATGACATCAAGTTGGCAGCAAGCTAATCCACACACTGGATGACAGGACCCAGCTCTG
 GGCCTCTGAGCCTGGGACGCTCCTGTGCCACAAGCCTCCCCTCGAAAACCCATCCTGAAGAACATC
 ACTGACTACCTGATTGAGGAAGTGAAGTGGGAGGAGGAGGAGCTTCTGGGAGCAGTGGGGACCCCTC
 CTGAGGAGCCTCCAAGGAGGGCAACCCAGCCGAGATCAACGTGGAGAGAGATGAGAAGCTGATCAAGGT
 CTTGGATAAACTTCTTCTATTTGCGTATTGTGCATTCTCTGGATTATTATAACACCTGTGAGTACCCT
 AATGAAGACGAGATGCCAACCGCTGTGGCATAATCCACGTTCCGGGGCCCATGCCTCCCAACCGAATTA
 GTCACGGAGAAGTGTGGAGTGGCAGAAGACATTTGAGGAGAACTGACTCCACTGTTGAGTGTGCGTGA
 ATCCCTTTCTGAGGAAGAGGCCAGAAGATGGGTGCAAAAGACCCAGAGCAGGAAGTGGAGAAGTTTGTG
 ACCTCCAACACGCAGGAAGTGGCAAGGATAAGTGGCTATGTCCTCTCAGTGGCAAGAAATCAAGGGCC
 CGGAGTTTGTGCGCAAGCATATCTTCAATAAGCATGCCGAGAAGATCGAGGAGGTGAAGAAGGAGGTGGC
 GTTCTTCAATAACTTTCTCACAGACGCCAAGCGCCAGCTTTGCCTGAGATCAAGCCAGCTCAGCCACCT
 GGCCCTGCCAGATACTCCCCCAGGCCTGACCCAGGACTTCCCTACCCACATCAGACGCCACAGGGCT
 TGATGCCATATGGTCAGCCCCGGCTCCCATCTTGGGCTATGGAGCTGGTGTGTCGCCCTGCAGTCCC
 AACAGGAGGGCTCCATACCCCATGCTCCATATGGTGCCGCGCTGGGAACTATGATGCTTTTCGAGGC
 CAAGGCGGTTATCCTGGGAAACCTCGGAACAGGATGGTTCGAGGAGACCAAGGGCCATAGTGGAGTATC
 GGGACCTGGATGCCCGGATGATGTTGACTTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217383 representing NM_031405
 Red=Cloning site Green=Tags(s)

MGDSDDEYDRRRRDKFRFRERSDYDRSRERDERRRGDDWNDREWRGRERRSRGEYRDYDRNRRERFSPPR
 HELSPPQKRMRRDWDEHSSDPYHSGYDMPYAGGGGGPTYGPPQPWGHDPVHIMQHHLPIQARLGSIAEI
 DLGVPPPIMKSFKEFLSLDSDVDETEAVKRYNDYKLDFFRRQQMQDFFLAHKDEEWFRRSKYHPDEVGKRR
 QEARGALQNRLKVFLSLMESGWFDNLLLDIDKADAIKMLDAAVIKMEGGTENDLRILEQEEEEQAGKT
 GEASKKEEARAGPALGEGERKANDKDEKEDGKQAEENDSSNDDTKKSEGDDGKEEKKEEAEKEAKKSKK
 RNRKQSGDDSFDEGSVSESESESEGGQAEKEEAEALKEKEKPKKEEKEKPKDAAGLECKPRPLHKTC
 SLFMRNIAPNISRAEIIISLCKRYPGFMRYALSEPQPERFFRRGWVTFDRSVNIKEICWNLQNIRLRECE
 LSPGVNRDLTRVRNINGITQHKQIVRNDIKLAAKLIHTLDDRTQLWASEPGTPPVPTSLPSQNPILKNI
 TDYLIEEVSAEEEEELGSSGGPPPEPPKEGNAEINVERDEKLIKVLKLLLYLRIVHSLDYNTCEYP
 NEDEMPNRCGIIHVRGMPNRIISHGEVLEWQKTFEELKTPLLSVRESLSEEAQKMKRDKPEQEVEKQV
 TSNTQELGKDKWLCPLSGKKFKGPEFVRKHIFNKHAEKIEEVKKEVAFFNNFLTDAKRALPEIKPAQPP
 GPAQILPPGLTPGLPYPHQTPQGLMPYQPRPILGYGAGAVRPAVPTGGPPYPHAPYGAGRGNYDAFRG
 QGGYPGKPRNRMVRGDPRAIVEYRDLAPDDVDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9102_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

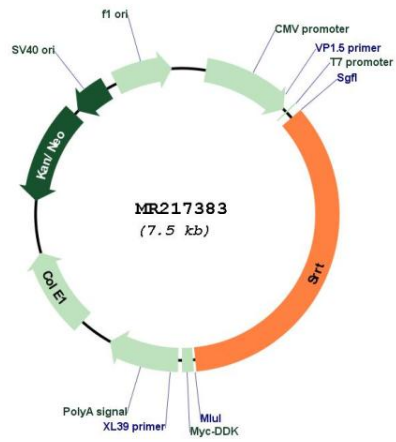
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_031405
ORF Size:	2625 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:	NM_031405.2 , NP_113582.1
RefSeq Size:	3039 bp
RefSeq ORF:	2628 bp
Locus ID:	83701
UniProt ID:	Q99MR6
Cytogenetics:	5 G2
MW:	100.5 kDa
Gene Summary:	Acts as a mediator between the cap-binding complex (CBC) and the primary microRNAs (miRNAs) processing machinery during cell proliferation. Contributes to the stability and delivery of capped primary miRNA transcripts to the primary miRNA processing complex containing DGCR8 and DROSHA, thereby playing a role in RNA-mediated gene silencing (RNAi) by miRNAs. Binds capped RNAs (m7GpppG-capped RNA); however interaction is probably mediated via its interaction with NCBP1/CBP80 component of the CBC complex. Involved in cell cycle progression at S phase. Does not directly confer arsenite resistance but rather modulates arsenic sensitivity. Independently of its activity on miRNAs, necessary and sufficient to promote neural stem cell self-renewal. Does so by directly binding SOX2 promoter and positively regulating its transcription.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217383