

## Product datasheet for **MC222279**

### **Srrt (NM\_001109909) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Srrt (NM_001109909) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC222279 representing NM\_001109909  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTGACAGTGATGATGAATACGACCGAAGACGCAGGGACAAATTTCAAGAGAGCGCAGCGATTATG  
 ACCGTTCCCGGAAAGGGATGAAAGACGGCGAGGGGACGATTGGAATGACCGAGAGTGGGACCGTGCCG  
 GGAGCGCCGAGTCGGGGTGAATATCGAGACTACGACAGGAACCGAAGGGAGCGCTTCTCTCCCCCTCGA  
 CACGAACAAGCCCCCCAGAAGCGCATGCGGAGAGACTGGGATGAGCAGACTCTGACCCATACCACA  
 GTGGCTATGACATGCCCTATGCTGGGGGGGTGGGGACCAACTTACGGCCCCCTCAGCCCTGGGGCCA  
 CCCAGACGTCCACATCATGCAGCACCATGTCTGCCCATCCAGGCCAGGCTGGGCAGCATCGCAGAGATT  
 GACTTGGGGGTGCCACCGCCATAATGAAGTCCTTCAAAGAGTTCCTCTGTCTCTGGATGACTCTGTGG  
 ATGAGACAGAGGCAGTTAAACGCTACAATGACTACAAGCTGGACTCCGAAGGCAGCAGATGCAGGACTT  
 TTTCTGGCTCACAAGACGAGGAGTGGTCCGATCTAAGTACCACCCTGATGAGGTGGGAAAGCGTCGG  
 CAGGAGGCCCGGGGGCCCTGCAGAACCGCTGAAGGTGTTCTGTCCCTCATGGAGAGTGGCTGGTTTG  
 ATAACTTCTCTTGACATAGACAAAGCTGATGCCATTGTCAAGATGCTAGATGCAGCTGTCATTAGAT  
 GGAAGGTGGCACAGAAACGATCTCCGAATTTTGGAGCAGGAGGAGGAGGAACAGGCAGGCAAGACT  
 GGGGAGGCCAGCAAGAAAGAGGAGGCCGCTGCTGGACCAGCCCTGGGAGAAGGAGAGCGCAAAGCCAATG  
 ATAAGGATGAGAAGAAAGATGGAACACAGGCTGAGAATGACAGTTCCAACGATGACAAAATAAAAA  
 ATCTGAGGGTGTGGGGACAAGGAGGAGAAGAAAGAGGCTGAGAAGGAAGCCAAAAGAGCAAGAAG  
 CGGAACAGGAAGCAGAGTGGCGATGACAGCTTCGATGAGGGCAGTGTGTCGAGTCTGAGTCCGAGTCTG  
 AGGGTGGCCAGGCCAGGAGGAGAAGGAGGAGGCCGAAGAAGCACTTAAAGAAAAGGAGGACCCAAAGA  
 GGAGGAGAAGGAGAAGCCTAAGGATGCTCAGGGTGGAGTGAAGCCCCGGCCCTTGCATAAAGACTTGC  
 TCTCTTTCATGCGCAACATCGCACCAACATTTCAAGGGCAGAGATCATTTCTTTTGAACGATACC  
 CAGGCTTTATGCGAGTGGCACTGTGAGGCCAGCCAGAGAGGAGGTTTTTTTCGCCGTGGCTGGGTGAC  
 TTTTGACCGCAGTGTTAACATTAAGGAGATCTGTTGGAACCTGCAGAACATTCGGCTCCGGGAGTGTGAA  
 CTGAGTCCCGGTGTGAACAGAGACTGACCCGTCGTGTCGCAACATAAATGGCATTACACAGCACAAGC  
 AGATAGTGCCAATGACATCAAGTTGGCAGCAAGCTAATCCACACACTGGATGACAGGACCCAGCTCTG  
 GGCCTCTGAGCCTGGGACGCTCCTGTGCCACAAGCCTCCCTCGAAAACCCATCCTGAAGAATC  
 ACTGACTACCTGATTGAGGAAGTGAAGTGGGAGGAGGAGCTTCTGGGAGCAGTGGGGACCCCTC  
 CTGAGGAGCCTCCAAGGAGGGCAACCCAGCCGAGATCAACGTGGAGAGAGATGAGAAGCTGATCAAGGT  
 CTTGGATAAACTTCTTCTATTTGCGTATTGTGATTCTCTGGATTATTATAACACCTGTGAGTACCCT  
 AATGAAGACGAGATGCCAACCGCTGTGGCATAATCCACGTTTCGGGGGCCATGCCTCCCAACCGAATTA  
 GTCACGGAGAAGTGTGGAGTGGCAGAAGACATTTGAGGAGAACTGACTCCACTGTTGAGTGTGCGTGA  
 ATCCCTTTCTGAGGAAGAGGCCAGAAGATGGGTGCAAAAGACCCAGAGCAGGAAGTGGAGAAGTTTGT  
 ACCTCCAACACGCAGGAAGTGGCAAGGATAAGTGGCTATGTCCTCTCAGTGGCAAGAAATCAAGGGCC  
 CGGAGTTTGTGCGCAAGCATATCTTCAATAAGCATGCCGAGAAGATCGAGGAGGTGAAGAAGGAGGTGCG  
 GTTCTTCAATAACTTTCTACAGACGCCAAGCGCCAGCTTTGCCTGAGATCAAGCCAGCTCAGCCACCT  
 GGCCCTGCCAGATACTCCCCCAGGCCTGACCCAGGACTTCCCTACCCACATCAGACGCCACAGGGCT  
 TGATGCCATATGTCAGCCCCGGCTCCCATCTTGGGCTATGGAGTCCCAACAGGAGGGCTCCATACCC  
 CCATGCTCCATATGGTCCCGCCGTGGAACTATGATGCTTTTCGAGGCCAAGGCGGTTATCCTGGGAAA  
 CCTCGAACAGGATGGTTCGAGGAGACCAAGGGCCATAGTGGAGTATCGGGACCTGGATGCCCCGGATG  
 ATGTTGACTTCTTTGA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001109909  
 Insert Size: 2607 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001109909.1</a></u> , <u><a href="#">NP_001103379.1</a></u>
<b>RefSeq Size:</b>	3018 bp
<b>RefSeq ORF:</b>	2607 bp
<b>Locus ID:</b>	83701
<b>UniProt ID:</b>	<u><a href="#">Q99MR6</a></u>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses a different acceptor splice site at the penultimate exon compared to transcript variant 1, resulting in a shorter isoform (2) missing a 7 aa segment, compared to isoform 1.</p>