

## Product datasheet for **SC114586**

### ARS2 (SRRT) (NM\_015908) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARS2 (SRRT) (NM_015908) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARS2
Synonyms:	ARS2; ASR2; serrate
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_015908, the custom clone sequence may differ by one or more nucleotides

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ATGGGTGACAGTGATGACGAGTACGATCGAAGGCCGAGGGACAAGTTCAGAAGAGAGCGCAGCGACTACG
ACCGTTCCCGCGAGAGAGATGAAAGACGTCGAGGGGACGATTGGAATGACAGAGAGTGGGACCGTGCCG
TGAGCGCCGTAGTCGGGGTGAATATCGGGACTATGACCGGAATCGGCGAGAGCGCTTCTCGCCACCTCGC
CAGCAACTCAGCCCGCCACAGAAGCGCATGAGGAGAGACTGGGATGAGCACAGCTCTGACCCATACCACA
GTGGCTATGAGATGCCCTATGCTGGGGGGGTGGGGGCCAACTTATGGCCCCCTCAGCCCTGGGGCCA
CCCTGACGTCCACATCATGCAGCACCATGTCCTGCCTATCCAGGCCAGGCTGGGCAGCATTGCAGAGATT
GACCTGGGTGTCCGCCGCCCGTGATGAAGACCTCAAGGAGTTTCTCCTCTCCCTGGATGACTCGGTGG
ATGAGACGGAGGCCGTC AAGCGCTATAATGACTACAAGCTGGATTTCCGGAGGCAACAGATGCAGGATTT
CTTCTGGCGCACAAGATGAGGAGTGGTTTCGGTCTAAGTACCACCCAGATGAGGTGGGAAGCGTCGG
CAGGAGGCCCGGGGGCCCTGCAAACCGACTGAGGGTCTTCTGTCCCTCATGGAGACTGGCTGGTTTG
ATAACCTTCTCCTGGACATAGACAAAGCTGATGCCATTGTCAAGATGCTGGATGCAGCCGTGATTAAGAT
GGAAGGAGGCACGGAGAATGATCTTCGCATCCTGGAGCAGGAGGAGGAGGAGGAGCAGGCAGGAAAGCCT
GGGGAGCCAGCAAGAAAGAAGAAGGACGGCTGGAGCAGGCCTAGGGGACGGGGAGCGCAAAACCAACG
ACAAGGATGAGAAGAAGGAAGACGGCAAGCAGGCTGAGAATGACAGTTCTAATGATGACAAAAACAAGAA
GTCGGAGGGTGATGGGGACAAGGAAGAGAAGAAAGAAAGACTCCGAGAAGGAAGCCAAAAAGAGTAGCAAG
AAGCGAACCCGGAAGCACAGTGGTGACGACAGCTTTGACGAGGGCAGCGTGTGAGTCTGAGTCGGAGT
CAGAGAGCGGCCAGGCTGAGGAGGAGAAGGAGGAGGCCGAAGAAGCGCTCAAGGAGAAGGAGAAGCCAA
GGAAGAAGAAATGGGAGAAGCCAAAGGACGCCGGGGCTGGAGTGCAAGCCGGCCGCTGCATAAGACC
TGCTCCCTCTTTCATGCGCAACATCGCGCCCAACATCTCCGGGGCCGAGATCATCTCCCTTTGAAAAGGT
ACCCAGGCTTTATGCGGGTGGCGCTCTCAGAGCCCGCAGCCAGAGAGGAGGTTTTTTCGCTGTGGCTGGGT
GACCTTCGACCGCAGTGTTAACATTAAGAGATCTGTTGGAACCTGCAGAACATCCGTCTCCGGGAGTGT
GAGCTGAGCCCTGGTGTGAACAGGGACCTGACCCGGCGGTTTCGCAACATCAACGGCATCACCCAGCACA
AGCAGATTGTGCGCAACGACATCAAGCTGGCGGCAAGCTGATCCACACGCTGGATGACAGGACACAGCT
TTGGGCCCTCAGAACCAGGGACGCCTCCCCTGCCACGAGCCTGCCCTCGCAAAACCCGATCTTGAAGAT
ATCACCGACTACCTGATCGAGGAAGTAAGCGCCGAGGAGGAGGAGCTGCTGGGGAGCAGCGGGGGCGCTC
CTCCTGAGGAGCCTCCTAAGGAAGGAACCCGGCAGAGATCAACGTGGAGCGGGATGAGAAGTTGATTAA
GGTCTTGGACAAGCTCCTCCTTTACCTGCGCATCGTGATTCTTGGATTATTACAACACCTGTGAGTAC
CCCAACGAGGACGAGATGCCAATCGCTGTGGGATCATCCACGTTTCGGGGGCCATGCCACCAACCGCA
TCAGTACGCGGGAAGTGCTGGAGTGGCAGAAGACTTTTGGAGAGAAGCTCACGCCGTTGCTGAGTGTGCG
GGAGTCACTCTCAGAGGAAGAGGCCCAGAAGATGGGGCGCAAAGACCCAGAGCAGGAAGTGGAGAAGTTC
GTCACCTCCAACCGCAGGAAGTGGCAAGGATAAGTGGCTGTGCTCCTCAGTGGCAAGAAATTCAAGG
GTCCTGAGTTTGTGCGCAACATATCTTCAACAAGCATGCAGAGAAAATTGAGGAAGTAAAAAGGAAGT
CGCGTTTTTTAACTTCTCACTGATGCTAAGCGCCAGCTCTGCCTGAGATCAAGCCAGCCAGCCA
CCTGGCCCCGCCAGATACTCCCCCAGGTTTGACCCAGGACTCCCCTACCCACACCAGACTCCCAGG
GCCTGATGCCCTATGGTCAGCCCCGGCCCCGATCTTGGGCTATGGAGCTGGTGTGTCCGCCCTGCAGT
CCCCACAGGAGGCCCTCCATACCCCATGCCCGTATGGTGTGTCGAGGGAACATGATGCTTCCGA
GGCCAGGAGGTTATCCTGGGAAACCTCGCAACAGGATGGTTCGTGGAGACCAAGGGCCATTGTGGAAT
ATCGGGACCTGGATGCCCCAGACGATGTTGATTTCTTTTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015908 unedited  
 TGT CAGCTTTTGTATACGACTACTATAGGCGGCCCGGAATTCGCACGAGGAAGACTCC  
 GAGAAGGAAGCCAAAAAGATAGCAAGAAGCGGAACCGGAAGCACAGTGGTGACGACAGCT  
 TTGACGAGGGCAGCGTGT CAGAGTCTGAGT CCGAGT CAGAGAGCGGCCAGGCTGAGGAGG  
 AGAAGGAGGAGGCCGAAGAAGCGCTCAAGGAGAAGGAGAAGCCCAAGGAAGAAGAATGGG  
 AGAAGCCCAAGGACGCCCGGGGCTGGAGTGCAAGCCCGGCCGCTGCATAAGACCTGCT  
 CCCTCTTCATGCGCAACATCGCGCCCAACATCTCCCGGGCCGAGATCATCTCCCTTTGTA  
 AAAGGTACCCAGCTTTATGCGGGTGGCGCTCTCAGAGCCCGCCAGAGAGGAGGTTTT  
 TCCGTCGTGGCTGGGTGACCTTCGACCGCAGTGTTAACATTAAAGAGATCTGTTGGAACC  
 TGCAGAACATCCGCTCCCGGAGTGTGAGCTGAGCCCTGGTGTGAACAGGGACCTGACCC  
 GGCGGTTTCGCAACATCAACGGCATCACCCAGCACAAGCAGATTGTGCGCAACGACATCA  
 AGCTGGCGGCCAAGCTGATCCACACGCTGGATGACAGGACACAGCTTTGGGCCTCAGAAC  
 CAGGGACGCCCTCCCTGCCACGAGCTGCCCTCGAAAACCCGATCTTGAAGAATATCA  
 CCGACTACCTGATCGAGGAAGTAAGCGCCGAGGAGGAGGAGCTGTGGGGAGCACCGGGG  
 CGTCTCTCTGANGAGCCTCTACGGAAGGAACCCGGCAGAGATCACGTGGAGCCGGATG  
 AGAAGTTGATTAAGTGCCAGTGCCANCGGGGCACGTGGGGGCTCGGGCCGTTGAGGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_015908 unedited  
 GATGGCACTTCCAGGCCAGGAAGCACTGGGAGGGTCACAGGAGCCACCCGGGATCTGTCA  
 GAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCCCTG  
 TGAAGTGCTTTTATTAGCAGTAAGGCTGATCGTACAAAAAATTCTCAGAGCTTCATAGG  
 ACAAGGTAGTACAAGTATGGATGATACAGGACTGAGGAACGGGGACGGCTCAAAAAAAA  
 TCAACATCGTCTGGGGCATCCAGGTCCCGATATCCACAATGGCCCTTGGGTCTCCACGA  
 ACCATCCTGTTGCGAGGTTTCCAGGATAACCTCCCTGGCCTCGGAAGGCATCATAGTTC  
 CCTCGACCAGCACCATACGGGGCATGGGGTATGGAGGGCCTCCTGTGGGGACTGCAAGG  
 CGGACAGCACCAGCTCCATAGCCCAAGATCGGGGGCCGGGGTACCATAGGGCATCAGG  
 CCCTGGGGAGTCTGGTGTGGGTGGGGGAGTCTGGGGTCAAACCTGGGGGGAGTATCTGG  
 GCGGGGCANGTGGCTGGGCTGGCTTGATCTCAGGCAGAGCTGGGCGCTTAACATCATGGA  
 GGAAGTTGGTAAAAACGCGACTTCCTTTTTCACTTCTCATTNTTCTCTGCATGCTTGG  
 TGAAGAATATGTTTCGCGCACAAACTTCAGGACCCTTTGATTTTTCTTGCCACTGAAAGAG  
 ACACAGCCTTATCCTTGCCCCAGTTCCCTTGCNTGGTGAGAGGTGAAAAAATTTCTCC  
 ATTTTCTGTTTTTGGGCTTTTGCGCCCCATTCTTTTGGCCTTTCTTCTTTGGAGAG  
 AAGATCCCGCAATCTTAAGGACCCGGGGGGAGCTTCTTCTCAAAGTCTTTTGGCA  
 CC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_015908

**Insert Size:**

1840 bp

**OTI Disclaimer:**

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).

**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\\_015908.1](#), [NP\\_056992.1](#)

**RefSeq Size:** 3032 bp

**RefSeq ORF:** 1278 bp

**Locus ID:** 51593

**UniProt ID:** [Q9BXP5](#)

**Cytogenetics:** 7q22.1

**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 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).