

Product datasheet for **SC323225**

ARS2 (SRRT) (NM_001128853) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARS2 (SRRT) (NM_001128853) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARS2
Synonyms:	ARS2; ASR2; serrate
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001128853, the custom clone sequence may differ by one or more nucleotides

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ATGGGTGACAGTGATGACGAGTACGATCGAAGGCCGAGGGACAAGTTCAGAAGAGAGCGC
AGCGACTACGACCGTTCCCGCGAGAGAGATGAAAGACGTCGAGGGGACGATTGGAATGAC
AGAGAGTGGGACCGTGGCCGTGAGCGCCGTAGTCGGGGTGAATATCGGGACTATGACCGG
AATCGGCGAGAGCGCTTCTGCCACCTGCCACGAAGTCCAGCCGCCACAGAAGCGCATG
AGGAGAGACTGGGATGAGCACAGCTCTGACCCATACCACAGTGGCTATGAGATGCCCTAT
GCTGGGGGGGGTGGGGGCCCAACTTATGGCCCCCTCAGCCCTGGGGCCACCCTGACGTC
CACATCATGCAGCACCATGTCCTGCCTATCCAGGCCAGGCTGGGACGATTGCAGAGATT
GACCTGGGTGTGCCGCCGCCGTGATGAAGACCTCAAGGAGTTTCTCCTCTCCCTGGAT
GACTCGGTGGATGAGACGGAGGCCGTAAGCGCTATAATGACTACAAGCTGGATTCCGG
AGGCAACAGATGCAGGATTTCTTCTGGCGCACAAAGATGAGGAGTGGTTTCGGTCTAAG
TACCACCAGATGAGGTGGGAAGCGTCGGCAGGAGGCCCGGGGGCCCTGCAAAACCGA
CTGAGGGTCTTCTGTCCCTCATGGAGACTGGTGGTTTGATAACCTTCTCCTGGACATA
GACAAAGCTGATGCCATTGTCAAGATGCTGGATGCAGCCGTGATTAAGATGGAAGGAGGC
ACGGAGAATGATCTTCGATCCTGGAGCAGGAGGAGGAGGAGGAGCAGGCAGGAAAGCCT
GGGGAGCCAGCAAGAAAGAAGAAGGACGGCTGGAGCAGGCCTAGGGGACGGGGAGCGC
AAAACCAACGACAAGGATGAGAAGAAGGACGGCAAGCAGGCTGAGAATGACAGTTCT
AATGATGACAAAACAAAGAAGTCGGAGGGTGTGGGGACAAGGAAGAGAAGAAAGAAGAC
TCCGAGAAGGAAGCCAAAAGAGTAGCAAGAAGCGGAACCGGAAGCACAGTGGTGACGAC
AGCTTTGACGAGGGCAGCGTGTGAGAGTCTGAGTCGGAGTCAGAGAGCGGCCAGGCTGAG
GAGGAGAAGGAGGAGGCCGAAGAAGCGCTCAAGGAGAAGGAGAAGCCAAAGGAAGAAGAA
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TGCTCCCTCTTTCATGCGCAACATCGCGCCCAACATCTCCGGGGCCGAGATCATCTCCCTT
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TTTTTCCGTCGTGGTGGTGACCTTCGACCGCAGTGTTAACATTAAGAGATCTGTTGG
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ATCAAGCTGGCGGCAAGCTGATCCACACGCTGGATGACAGGACACAGCTTTGGGCTCA
GAACCAGGGACGCTCCCTGCCACGAGCCTGCCCTCGCAAAACCCGATCTTGAAGAAT
ATCACCGACTACCTGATCGAGGAAGTAAGCGCCGAGGAGGAGGAGCTGCTGGGGAGCAGC
GGGGGCGCTCCTCCTGAGGAGCCTCCTAAGGAAGGGAACCCGGCAGAGATCAACGTGGAG
CGGGATGAGAAGTTGATTAAGGTCTTGGACAAGCTCCTCCTTTACCTGCGCATCGTGCAT
TCCTTGGATTATTACAACACCTGTGAGTACCCCAACGAGGACGAGATGCCCAATCGCTGT
GGGATCATCCACGTTTCGGGGGCCATGCCACCAACCGCATCAGTCACGGGGAAGTGCTG
GAGTGGCAGAAGACTTTTGAGGAGAAGCTCACGCCGTTGCTGAGTGTGCGGGAGTCACTC
TCAGAGGAAGAGGCCAGAAGATGGGGCGCAAAGACCCAGAGCAGGAAGTGGAGAAGTTC
GTCACCTCCAACACGCAGGAAGTGGGCAAGGATAAGTGGCTGTGCTCCTCAGTGGCAAG
AAATCAAGGGTCTGAGTTTGTGCGCAACATATCTTCAACAAGCATGCAGAGAAAATT
GAGGAAGTGAAAAGGAAGTCGCGTTTTTTTAACTTCCCTCACTGATGCTAAGCGCCCA
GCTCTGCCTGAGATCAAGCCAGCCAGCCACCTGGCCCCGCCAGAGTTTGACCCAGGA
CTCCCCTACCCACACCAGACTCCCAGGGCCTGATGCCCTATGGTCAAGCCCGGCCCGG
ATCTTGGGCTATGGAGCTGGTGTGTCGCCCTGCAGTCCCACAGGAGGCCCTCCATAC
CCCCATGCCCCGATGGTGTGGTGGTGGGAACTATGATGCCCTCCGAGGCCAGGGAGGT
TATCCTGGGAAACCTCGCAACAGGATGGTTCGTGGAGACCAAGGGCCATTGTGGAATAT
CGGGACCTGGATGCCCCAGACGATGTTGATTTCTTT

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Restriction Sites: Please inquire
ACCN: NM_001128853

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001128853.1</u> , <u>NP_001122325.1</u>
RefSeq Size:	3020 bp
RefSeq ORF:	2619 bp
Locus ID:	51593
UniProt ID:	<u>Q9BXP5</u>
Cytogenetics:	7q22.1
Gene Summary:	<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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) uses an alternate in-frame splice junction at the end of a 3' exon compared to variant 1. The resulting isoform (d) has the same N- and C-termini but is 4 aa shorter compared to isoform a.</p>