

## Product datasheet for **SC316230**

### ARSA (NM\_001085427) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARSA (NM\_001085427) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ARSA  
**Synonyms:** ASA; MLD  
**Vector:** pCMV6 series

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001085427, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGCACCGCGTCCCTCCTCTGGCCCTGGCTGCTGGCCTGGCCGTTGCCCGTCCG
CCCAACATCGTGCTGATCTTTGCCGACGACCTCGGCTATGGGGACCTGGGCTGCTATGGG
CACCCCAGCTCTACCACTCCCAACCTGGACCAGCTGGCGCGGGAGGGCTGCGGTTCA
GACTTCTACGTGCCTGTGTCTGTGCACACCCTTAGGGCCGCCCTCTGACCGGCCGG
CTCCCGGTTCCGATGGGCATGTACCCTGGCGTCTGGTGCCAGCTCCCGGGGGGCGCTG
CCCCTGGAGGAGGTGACCGTGGCCGAAGTCTGGCTGCCGAGGCTACCTCACAGGAATG
GCCGGCAAGTGGCACCTGGGGTGGGGCCTGAGGGGGCCTTCTGCCCCCATCAGGGC
TTCCATCGATTTCTAGGCATCCCGTACTCCACGACCAGGGCCCTGCCAGAACCTGACC
TGCTTCCCGCCGGCCACTCCTTGCGACGGTGGCTGTGACCAGGGCCTGGTCCCCATCCCA
CTGTTGGCCAACCTGTCCGTGGAGGCGCAGCCCCCTGGCTGCCCGGACTAGAGGCCCGC
TACATGGCTTTCGCCATGACCTCATGGCCGACGCCAGCCAGGATCGCCCCTTCTTC
CTGACTATGCCTCTCACCACACCCACTACCCTCAGTTCAGTGGGAGAGCTTTGCAGAG
CGTTCAGGCCGCGGGCCATTTGGGGACTCCCTGATGGAGCTGGATGCAGCTGTGGGGACC
CTGATGACAGCCATAGGGGACCTGGGGCTGCTTGAAGAGACGCTGGTTCATCTTCACTGCA
GACAATGGACCTGAGACCATGCGTATGTCCCAGGGCGGCTGCTCCGGTCTCTTGGGTGT
GGAAAGGGAACGACCTACGAGGGCGGTGCCGAGAGCCTGCCTTGGCCTTCTGGCCAGGT
CATATCGTCCCGCGGTGACCCACGAGCTGGCCAGCTCCCTGGACCTGCTGCCTACCCTG
GCAGCCCTGGCTGGGGCCCCACTGCCAATGTACCTTGGATGGCTTTGACCTCAGCCCC
CTGCTGTGGGCACAGGCAAGAGCCCTCGGCAGTCTCTTCTTCTACCCGTCCTACCCA
GACGAGGTCCGTGGGTTTTTGTGTGCGGACTGGAAAGTACAAGGCTCACTTCTTACC
CAGGGCTCTGCCACAGTGATACCACTGCAGACCCTGCCTGCCACGCCTCCAGCTCTCTG
ACTGCTCATGAGCCCCGCTGCTCTATGACCTGTCCAAGGACCTGGTGAGAACTACAAC
CTGCTGGGGGGTGTGGCCGGGGCCACCCAGAGGTGCTGCAAGCCCTGAAACAGTTCAG
CTGCTCAAGGCCAGTTAGACGCAGCTGTGACCTTCGGCCCCAGCCAGGTGGCCCCGGGC
GAGGACCCCGCCCTGCAGATCTGCTGTATCCTGGCTGCACCCCCCGCCAGCTTGTGTC
CATTGCCAGATCCCCATGCC
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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001085427



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|-------------------------------|---|
| <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>OTI Annotation:</b>        | 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.  |
| <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>                | <a href="#">NM_001085427.1</a> , <a href="#">NP_001078896.1</a>   |
| <b>RefSeq Size:</b>           | 1873 bp   |
| <b>RefSeq ORF:</b>            | 1524 bp   |
| <b>Locus ID:</b>              | 410   |
| <b>UniProt ID:</b>            | <a href="#">P15289</a>  |
| <b>Cytogenetics:</b>          | 22q13.33  |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>Protein Pathways:</b>      | Lysosome, Sphingolipid metabolism   |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |