

Product datasheet for **SC320431**

ARSA (NM_000487) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSA (NM_000487) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARSA
Synonyms:	ASA; MLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_000487.3
 GCGCCCGCAGCCCGGTACCGGCTCCTCCTGGGCTCCCTCTAGCGCCTTCCCCCGGCCCG
 ACTCCGCTGGTCAGCGCCAAGTGACTTACGCCCCCGACCCTGAGCCCGGACCGCTAGGCG
 AGGAGGATCAGATCTCCGCTCGAGAATCTGAAGGTGCCCTGGTCTGGAGGAGTTCCGTC
 CCAGCCCGCGGTCTCCCGTACTGTCCGGCCCGGCCCTCTGGAGCTTCAAGGAGCGGCC
 GTCAGGGTCCGGGAGTATTTGGGTCCGGGTCTCAGGAAGGGCGGCCCTGGGTCTGCG
 GTATCGGAAAGACCTGCTGGAGCCAAGTAGCCCTCCCTCTCTTGGGACAGACCCCTCGG
 TCCCATGTCCATGGGGGACCGCGGTCCCTCCTCCTGGCCCTGGCTGCTGGCCTGGCCGT
 TGCCCGTCCGCCAACATCGTGCTGATCTTTGCCGACGACCTCGGCTATGGGGACCTGGG
 CTGCTATGGGCACCCAGCTCTACCACTCCCAACCTGGACCAGCTGGCGCGGGAGGGCT
 GCGGTTACAGACTTCTACGTGCCTGTGTCTGTGCACACCCTTAGGGCCGCCCTCCT
 GACCGGCCGGCTCCCGTTCGGATGGGCATGTACCCTGGCGTCTGGTGGCCAGCTCCCG
 GGGGGGCTGCCCTGGAGGAGGTGACCGTGGCCGAAGTCTGGTGGCCGAGGCTACCT
 CACAGGAATGGCCGCAAGTGGCACCTTGGGGTGGGGCTGAGGGGGCTTCTGCCCC
 CCATCAGGGCTTCCATCGATTTCTAGGCATCCCGTACTCCACGACCAGGGCCCTGCCA
 GAACCTGACCTGCTTCCCGCCGGCCACTCCTTGGGACGGTGGCTGTGACCAGGGCCTGGT
 CCCCATCCCACTGTTGGCCAACCTGTCCGTGGAGGCGCAGCCCCCTGGCTGCCCGGACT
 AGAGGCCCGCTACATGGCTTTGCCCATGACCTCATGGCCGACGCCCAGCGCCAGGATCG
 CCCCTTCTCCTGTAATGCTCTCACCACACCCACTACCCTCAGTTCAGTGGGCGAGAG
 CTTTGCAGAGCGTTCAGGCCCGGGGCCATTTGGGGACTCCCTGATGGAGCTGGATGCAGC
 TGTGGGGACCCCTGATGACAGCCATAGGGGACCTGGGGCTGCTTGAAGAGACGCTGGTCA
 TTCACTGCAGACAATGGACCTGAGACCATGCGTATGTCCCGAGGCGGCTGCTCCGGTCT
 CTTGCGGTGTGGAAAGGGAACGACCTACGAGGGCGGTGTCGAGAGCCTGCCTTGGCCTT
 CTGGCCAGGTCAATCGCTCCCGCGGTGACCCACGAGCTGGCCAGCTCCCTGGACCTGCT
 GCCTACCCTGGCAGCCCTGGCTGGGGCCCACTGCCAATGTACCTGGATGGCTTTGA
 CCTCAGCCCCCTGCTGCTGGGCACAGGCAAGAGCCCTCGGCAGTCTCTCTTTTACC
 GTCCTACCAGACGAGGTCGGTGGGGTTTTGCTGTGCGGAGTGGAAAGTACAAGGCTCA
 CTTCTTACCAGGGCTCTGCCACAGTGATACCACTGCAGACCCTGCCTGCCACGCCTC
 CAGCTCTGACTGCTCATGAGCCCCGCTGCTCTATGACCTGTCCAAGGACCCTGGTGA
 GAACTACAACCTGCTGGGGGTGTGGCCGGGGCCACCCAGAGGTGCTGCAAGCCCTGAA
 ACAGCTTCAAGTCTCAAGGCCAGTTAGACGCAGCTGTGACCTTCGGCCCCAGCCAGGT
 GGCCCGGGGCGAGGACCCCGCCCTGCAGATCTGCTGTCATCCTGGCTGCACCCCGGCC
 AGCTTGCTGCCATTGCCAGATCCCATGCCTGAGGGCCCTCGGCTGGCCTGGGCATGT
 GATGGCTCCTCACTGGGAGCCTGTGGGGAGGCTCAGGTGCTGGAGGGGGTTTGTGCT
 GATAACGTAATAACACCAGTGGAGACTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000487

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:

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_000487.3](#), [NP_000478.2](#)

RefSeq Size: 2039 bp

RefSeq ORF: 1524 bp

Locus ID: 410

UniProt ID: [P15289](#)

Cytogenetics: 22q13.33

Domains: Sulfatase

Protein Families: Druggable Genome

Protein Pathways: Lysosome, Sphingolipid metabolism

Gene Summary: 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]

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