

Product datasheet for **SC108951**

Arylsulfatase D (ARSD) (NM_001669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arylsulfatase D (ARSD) (NM_001669) Human Untagged Clone
Tag:	Tag Free
Symbol:	Arylsulfatase D
Synonyms:	ASD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108951 sequence for NM_001669 edited (data generated by NextGen Sequencing)

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ATGCGATCCGCCGCGGGAGGGGACGCGCCGCGCCCGCCGCCAGGGACTCTTTGCCGGTG
CTACTGTTTTATGCTTGCTTCTGAAGACGTGTGAACCTAAAAGTCAAATGCCTTTAAA
CCAAATATCCTACTGATCATGGCGGATGATCTAGGCACTGGGGATCTCGGTTGCTACGGG
AACAAATACACTGAGAACGCCGAATATTGACCAGCTTGACAGGAAGGTGTGAGGCTCACT
CAGCACCTGGCGGCCGCCCGCTCTGCACCCCAAGCCGAGCTGCATTCCACAGGGAGA
CATTCTTCAGATCAGGCATGGACGCCAGCAATGGATACCGGGCCCTTCAGTGGAACGCA
GGCTCAGGTGGACTCCCTGAGAACGAAACCACTTTTGCAAGAATCTTGACGACGATGGC
TATGCAACCGGCCTCATAGGAAAATGGACCCAGGGTGTGAATTGTGCATCCCGCGGGGAT
CACTGCCACCACCCCTGAACCACGGATTTGACTATTTCTACGGCATGCCCTTACGCTC
ACAAACGACTGTGACCCAGGCAGGCCCGGAAAGTGGACGCCGCCCTGAGGGCGCAGCTC
TGGGGTTACACCCAGTTCCTGGCGCTGGGGATTCTCACCTGGCTGCCGGCCAGACCTGC
GGTTTCTTCTCTGCTCCGCGAGAGCAGTCAACCGCATGGCCGGCGTGGGCTGCCTGTTT
TTCATCTCTTGGTACTCCTCCTCGGGTTGTGCGACGCTGGAAGTGTATCCTGATGAGA
AACCATGACGTACGGAGCAACCCATGGTTCTGGAGAAAACAGCGAGTCTTATGCTAAAG
GAAGCTGTTTCCTATATTGAAAGACACAAGCATGGGCCATTTCTCCTCTTCTTTCTTTG
CTGCATGTGCACATTCCTTGTGACCAGAGTGCATTCTGGGGAAAAGTCAAGCATGGC
TTATATGGTGATAATGTGGAGGAGATGGACTGGCTCATAGGTAAGGTTCTTAATGCCATC
GAAGACAATGGTTTAAAGAACTCAACATTCACGTATTTACCTCTGACCATGGAGGACAT
TTAGAGGCAAGAGATGGACACAGCCAGTTAGGGGGATGGAACGGAATTTACAAAGGTGGG
AAGGGCATGGGAGGATGGGAAGGTGGGATCCGCGTGCCCGGGATCTTCCACTGGCCGGGG
GTGCTCCCGGCCGCGAGTGATTGGAGAGCCCACGAGCCTGATGGACGTGTTCCCTACT
GTGGTCCAGCTGGTGGGTGGCGAGGTGCCCGAGGACAGGGTGATTGATGGCCACAGCCTG
GTACCCTTGCTGCAGGGAGCTGAGGCACGCTCGGCACATGAGTTCCTGTTTCATTACTGT
GGGCAGCATCTTACGCAGCAGCCTGGCACCAGAAGGACAGTGAAGCGTCTGGAAGGTT
CATTACACGACCCCGAGTTCACCCCCAGGGAGCGGGGGCTGTACGGCCGAGGCGTC
TGCCCATGCTCCGGGGAGGGCGTGACCCATCACAGACCCCTTTGCTCTTTGACCTCTCC
AGGGACCCCTCCGAGGCACGGCCCTGACCCCGACTCCGAGCCCTGTACCACGCCGTG
ATAGCAAGGGTAGGTGCCGGGTGTCGGAGCATCGGCAGACCCTGAGTCTGTGCCCCAG
CAGTTTTCCATGAGCAACATCCTGTGGAAGCCGTGGCTGCAGCCGTGCTGCGGACATTC
CCGTTCTGTTTCATGCCACGAGGATGGGGATGGCACCCCTGA
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Clone variation with respect to NM_001669.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001669 unedited CAAATTTTGTAAATACGACTCACTTATAGGGCGGCCGGAATTCGCACCAGCGGGCGCGGA GTGCGCAGGGCAAGGTCTGCGCTCTGGGCCAGCGCTCGGCCATGCGATCCGCCGCGCGG AGGGGACGCGCCCGCCGCCAGGGACTCTTTGCCGGTGCTACTGTTTTATGCTTG CTTCTGAAGACGTGTGAACCTAAACTGCAAATGCCTTTAAACCAAATATCCTACTGATC ATGGCGGATGATCTAGGCACTGGGGATCTCGTTGCTACGGGAACAATACACTGAGAACG CCGAATATTGACCAGCTTGCAGAGGAAGGTGTGAGGCTCACTCAGCACCTGGCGGCCGCC CCGCTCTGCACCCCAAGCCGAGCTGCATTCTCACAGGGAGACATTCTTCAGATCAGGC ATGGACGCCAGCAATGGATACCGGGCCCTTCAAGTGAACGCAGGCTCAGGTGGACTCCCT GAGAACGAAACCACTTTTGAAGAATCTTGCAGCAGCATGGCTATGCAACCGGCCTCATA GGAAAAATGGACCAGGTGTGAATTGTGCATCCCGCGGGGATCACTGCCACCACCCCTG AACACGGATTTGACTATTTCTACGGCATGCCCTTACGCTCACAAACGACTGTGACCCA GGCAGGCCCCCGAAGTGGACGCCGCCCTGAGGGCGCAGCTCTGGGGTTACACCCAGTTC CTGGCGTGGGGATTCTACCCTGGCTGCCGGCCAGACCTGCGGTTTCTTCTGTCTCC GCGAGAGCAGTACCCGGCATGGNNCGCGTGGCTGCCTGTTTTTCATCTTTGGNTACTC CTCTTTCGGTTNGTGCAGCAGCTGGAAGTATCCTGATGAGAAACATGAGTCCAGAGCA CCCATGGTTCTGGAGAAACGCGAGTCTATGCTAAGGGAGCTGTTTCTTATTGGAAGAAC AGCATGGGCCATTCTNCTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_001669
Insert Size:	2910 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:	<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:	NM_001669.2 , NP_001660.2
RefSeq Size:	5159 bp
RefSeq ORF:	1782 bp
Locus ID:	414
UniProt ID:	P51689
Cytogenetics:	Xp22.33
Domains:	Sulfatase

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a member of the sulfatase family. Sulfatases are essential for the correct composition of bone and cartilage matrix. The encoded protein is postrationally glycosylated and localized to the lysosome. This gene is located within a cluster of similar arylsulfatase genes on chromosome X. A related pseudogene has been identified in the pseudoautosomal region of chromosome Y. [provided by RefSeq, Jul 2011]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (alpha).
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.