

Product datasheet for **SC320488**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001669.2
 GTCCTGCGCTCTGGCCAGCGCTCGGCCATGCGATCCGCCGCGGAGGGGACGCGCCG
 GCCCGCCAGGACTCTTTGCCGGTACTGTTTTATGCTTCTGAAGACGTG
 TGAACCTAAAAGTCAAATGCCTTTAAACCAAATATCCTACTGATCATGGCGGATGATCT
 AGGCACTGGGGATCTCGTTGCTACGGGAACAATACACTGAGAACGCCGAATATTGACCA
 GCTTGCAGAGGAAGGTGTGAGGCTCACTCAGCACCTGGCGGCCGCCGCTCTGCACCC
 AAGCCGAGCTGCATTCTCACAGGGAGACATTCTTCAGATCAGGCATGGACGCCAGCAA
 TGGATACCGGGCCCTTCAGTGAACGCAGGCTCAGGTGGACTCCCTGAGAACGAAACCAC
 TTTTGCAAGAATCTGCAGCAGCATGGCTATGCAACCGCCCTCATAGGAAAATGGACCA
 GGGTGTGAATTGTGCATCCCGGGGATCACTGCCACCACCCCTGAACCACGGATTGGA
 CTATTTCTACGGCATGCCCTTCAGCTCACAACGACTGTGACCCAGGCAGGCCCCCGA
 AGTGGACGCCGCCCTGAGGGCGCAGCTCTGGGGTTACACCCAGTTCTGGCGCTGGGGAT
 TCTCACCTGGCTGCCGGCCAGACCTGCGGTTTCTTCTGTCTCCGCGAGAGCAGTCAC
 CGGCATGGCCGGCGTGGGCTGCCTGTTTTTCATCTCTTGGTACTCCTCCTTCGGGTTTGT
 GCGACGCTGGAATGTATTCTGATGAGAAACCATGACGTACGGAGCAACCCATGGTTCT
 GGAGAAAACAGCGAGTCTATGCTAAAGGAAGCTGTTTCTATATTGAAAGACACAAGCA
 TGGGCCATTTCTCCTCTTCTTTCTTTGCTGCATGTGCACATCCCTTGTGACCACGAG
 TGCATTCCTGGGAAAAGTCAAGCATGGCTTATATGGTGATAATGTGGAGGAGATGGACTG
 GCTCATAGGTAAGTTCCTAATGCCATCGAAGACAATGGTTTAAAGAACTCAACATTCAC
 GTATTTACCTCTGACCATGGAGGACATTTAGAGGCAAGAGATGGACACAGCCAGTTAGG
 GGGATGGAACGGAATTTACAAAGGTGGGAAGGGCATGGGAGGATGGGAAGTGGGATCCG
 CGTGCCCGGGATCTTCCACTGGCCGGGGTGTCCCGGCCGCCGAGTGATTGGAGAGCC
 CACGAGCCTGATGGACGTGTTCCCTACTGTGGTCCAGCTGGTGGGTGGCGAGGTGCCCA
 GGACAGGGTGATTGATGGCCACAGCCTGGTACCCTTGCTGCAGGGAGCTGAGGCACGCTC
 GGCACATGAGTTCCTGTTTCATTACTGTGGGCAGCATCTTACCGCAGCACGCTGGACCA
 GAAGGACAGTGAAGCGTCTGGAAGTTCATTACAGACCCCGCAGTTCCACCCCGAGGG
 AGCGGGGGCTGCTACGGCCGAGGCGTCTGCCATGCTCCGGGGAGGGCGTGACCCATCA



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CAGACCCCTTTGCTCTTTGACCTCTCCAGGGACCCCTCCGAGGCACGGCCCTGACCCC
 CGACTCCGAGCCCTGTACCACGCCGTGATAGCAAGGGTAGGTGCCGCGGTGTCGGAGCA
 TCGGCAGACCCCTGAGTCTGTGCCCCAGCAGTTTTCCATGAGCAACATCTGTGGAAGCC
 GTGGCTGCAGCCGTGTGCGGACATTTCCCGTTCTGTTTCATGCCACGAGGATGGGGATGG
 CACCCCTGAATGCCAGGACTGTGAGAGAGGATCCAGGAGAGCCCTGACTGCGTTGCAAAAC
 AAAATTCTCCAAGCTCGTGGCTGCAGCCGTGCTGCGGACATTTCCCGTTCTGTTTCATGCC
 ACGAGGATGGGGATGGCACCCCTGAATGCCAGGACTGTGAGAGAGGATCCAGGAGAGCC
 TGAATGCGTTGCAAAACAAAATTCTCCAAGCTTGGTTCTATCTTCAGCTTCCCTTTTTGCA
 AGGAACATGCCCTGGACTGAGAGTGGGTCCCACTTTCTTTCTTTCTTTCTTTCTTTT
 GAGACAGAGTGTGCTCTGTCCCTCAGGCTGGAGTGCAGTGGCACGATCTCTGCTCACTG
 CAACCTCCGCCTCCCGGTTTCAGGCGATTTTCTGCTCAGCCTCCTGAGTACCCAGGAT
 TACAGGCACCAGGCACCTGCCACCATGCCTAGCTAATTTTTGTAGTTTTGGTGGAGACAG
 GGTTCACCATGTTGCCAGGCTGGTCTCGCACTCCTGACCTCGAGTCATCCACCTGCCT
 CAGCCTCCCAAAGTGTGGGATTACAGGCACGAGCCACTGCGCCCATGTAGGTTTTCCCT
 TTCTGATTTGTAAATAAGACTGTCCAGTAGGCACCCACTGATGCCTCCTTCTCTCT
 TCTAAATCTCAGGTTTCGTCATTGTGCCAATGCCCGATGTTTTACCCCTCCGTCTTAA
 GCATTGTTGCAATTTTCATCACCTAGATGACATAACAGCCTTACAAAAGGACAGGGAGGAG
 TGTCTGTTCTACTCTCATAGCGGAGGAAAGTTAGAGCCTCTCAGTCTCTGTTTATGA
 GGACTCATAATCTCAAATAATTGATGCATTTTTCATACATTAGGGTCTCTGTCCATGTG
 TCTTCTGATATTGTTATAGAAATGGCTTCAGGCTGCTGGTAACAGATGCTGCGGAAAA
 GAATGCCTTAAACAAAGCCAGGCACGGTACTCACACCTGTAATCCCAGCACTTTGGGAG
 GCTGGGGTGGGAGGATCACTTGAGCCTAGGAGTTAGACACCTACCCAGCCTGGGCAACAC
 AGTGAGACCTCATCTCTACAAAAACAAATAATTGGCTAGATGTCGTGGCGCACAGCTGT
 GGTCTCAGCTACTTAGGAGGCTGAGGCGGGAGGATATTTGAGCCTGGGAGGTCAAACACT
 GCAATGAGCTAAGATTGCACTACTGCACTCCGGGCTGGGAGACAGAGTAAGACCCTGCCT
 TAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001669
- Insert Size:** 3100 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).
- 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_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.