

## Product datasheet for **SC310236**

### ARSL (NM\_000047) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARSL (NM_000047) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARSL
Synonyms:	ARSE; ASE; CDPX; CDPX1; CDPXR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310236 representing NM\_000047.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTTACATCTGCACCATTCTTGTGTTTGTGTTTCAGGAGCTGGCTGCCAGCGATGCTCGTGTACTGCTA
AGTTTGGCACCATCAGCTTCCAGCGACATTTCCGCCTCCGACCGAACATCCTTCTTCTGATGGCGGAC
GACCTTGGCATTGGGGACATTGGCTGCTATGGCAACAACACCATGAGGACTCCGAATATTGACCGCCTT
GCAGAGGACGGCGTGAAGCTGACCCAACACATCTCTGCCGCATCTTTGTGCACCCCAAGCAGAGCCGCC
TTCCTCACGGGCAGATACCCTGTGCGATCAGGGATGGTTTCCAGCATTGGTTACCGTGTCTTTCAGTGG
ACCGGAGCATCTGGAGGTCTTCCAACAAATGAGACAACCTTTGCAAAAATACTGAAAAGAGAAAGGCTAT
GCCACTGGACTCATTGAAAATGGCATCTGGGTCTCAACTGTGAGTCAGCCAGTGATCATTGCCACCAC
CCTCTCCATCATGGCTTTGACCATTTCTACGGAATGCCTTTCTCCTTGATGGGTGATTGCGCCCGCTGG
GAACTCTCAGAGAAGCGTGTCAACCTGGAACAAAACTCAACTTCCTCTTCCAAGTCTGGCCTTGGTT
GCCCTCACACTGGTAGCAGGGAAGCTCACACACCTGATACCCGCTCTCGTGGATGCCGGTCATCTGGTCA
GCCCTTTCGGCCGCTCCTCCTCGCAAGCTCCTATTTTGTGGTGCTCTGATTGTCATGCCGATTGTC
TTTCTGATGAGAAACCACACCATCACGGAGCAGCCATGTGCTTCCAAAGAACGACACCCCTTATTCTG
CAGGAGGTTGCGTCTTTCTCAAAGGAATAAGCATGGGCCTTTCTCCTCTTTGTTTCTTTCTACAC
GTTACATCCCTCTTACTATGGAGAATTCCTCGGGAAGAGTCTCCACGGGCTGTATGGGGACAAC
GTAGAGGAGATGGACTGGATGGTAGGACGGATCCTTGACACTTTGGACGTGGAGGGTTTGGAGCAACAGC
ACCCTCATTTATTTACGTCGGATCACGGCGGTTCCCTAGAGAATCAACTGGAAACACCCAGTATGGT
GGCTGGAATGGAATTTATAAAGGTGGGAAGGGCATGGGAGGATGGGAAGGTGGGATCCCGTGGCCGGG
ATCTTCCGCTGGCCCGGGTGTCCCGGCCGGCGAGTGATTGGCGAGCCACGAGTCTGATGGACGTG
TTCCCCACCGTGGTCCGGCTGGCGGGCGGCGAGGTGCCCAAGGACAGAGTGATTGACGGCCAAGACCTT
CTGCCCTTGTCTGGGACAGCCAACTCAGACCAGAGTTCTGATGCATTATTGTGAGAGGTTT
CTGCACGCAGCCAGGTGGCATCAACGGGACAGAGGAACAATGTGGAAAGTCCACTTTGTGACGCCTGTG
TTCCAGCCAGAGGGAGCCGGTGCCTGCTATGGAAGAAAGGTCTGCCCGTCTTTGGGGAAAAAGTAGTC
CACCACGATCCACCTTTGCTCTTTGACCTCTCAAGAGACCCTTCTGAGACCCACATCCTCACACCAGCC
TCAGAGCCCGTGTCTATCAGGTGATGGAACGAGTCCAGCAGGCGGTGTGGGAACACCAGCGGACACTC
AGCCAGTTCCTCTGCAGCTGGACAGGCTGGGCAACATCTGGAGACCGTGGCTGCAGCCCTGCTGTGGC
CGTTCGCCCTCTGCTGGTGCCTTAGGGAAGATGACCCACAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul  
**Plasmid Map:** □  
**ACCN:** NM\_000047  
**Insert Size:** 1770 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_000047.2](#)

**RefSeq Size:** 2220 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 415

**UniProt ID:** [P51690](#)

**Cytogenetics:** Xp22.33

**Domains:** Sulfatase

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 65.7 kDa

**Gene Summary:**

Arylsulfatase E is a member of the sulfatase family. It is glycosylated posttranslationally and localized to the golgi apparatus. Sulfatases are essential for the correct composition of bone and cartilage matrix. X-linked chondrodysplasia punctata, a disease characterized by abnormalities in cartilage and bone development, has been linked to mutations in this gene. Alternative splicing results in multiple transcript variants. A pseudogene related to this gene is located on the Y chromosome. [provided by RefSeq, Sep 2013]

Transcript Variant: This variant (2) lacks an alternate exon in the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.