

## Product datasheet for **SC101623**

### ARSB (AK026942) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARSB (AK026942) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARSB
Synonyms:	ASB; G4S; MPS6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK026942, the custom clone sequence may differ by one or more nucleotides

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TTGCATGGAGTAGTCAATTGTGATTGTAGCTTTATTTTCATAATATATTAAGACTTGCCTGCTATTTACT
AGCAGTGAGAAGAAACCTCAGGAAAGGATATGAAAAAGCAAGTGGCCAGTGTCTGGGATACTGGGCCTTG
GTAAAGCAGAGGAGGGCACACCCACAGTCTCTTATTCTCTGTTTTACTGCTTGTTTTGGAGTTCTGGGG
TCTGGCAAAGAGGATGCAGTTTGACACCTGCAGCCCTTCTCAATCCCACTAATGTCTTACTAATGTGGA
ACAGTCCATATTAGCTCCAGAGAGTGTCAAACCCAGAGAAATGTGTGCAAAAATGATACTTTTTCTGCA
TTAGCCCCACCATTGTGTTACCAATGCTTGGAACTGCCTGAAGGCACTCATTTTTTAATTTTTATTT
TATTTTTAATTTTTATATCTTTATGAGACGATCTCACTCTGTCACCAGTTGGAGTACAGTGGTACAAT
CACAACCTACCGTAGCCTCAAACCTCTGGGCTCAAGTATTCTCCACCTCAGGCACCCAAATAGCTGGA
ACTACAGGCATATACCAGCCACACCCAGCTAATTTTTATTTTTGAAAAGACAAGTTCCCTATGTTGCC
AGCTGGTCTTAACTCCTGGGCTCCAGCAATTATCCAGCCTTGGGCCTCCAAAAGTGCATGGGATTACA
GGCATGAGTCACCATGCCTGGCCTCATTTTTTAAAACAAATGAATAAATGGACAAATGAGTAAATGAGAA
AGTCTCACACCATGAAAGATGCTAGTCCAATGAGCTGAATACAGAGGTAATATAAATGTCTCCAGCTGT
TGCTTTTCTGTTCTCAAGCTGCCCTCCTGGGGTAGGAGCATAATCTACATCACTGGGCAGTCACAGGAC
ACTCTATAGCAAGTTGTAGCGTCTCTCCGGTGGGGGAGAAAAGGAACTGTGCCTACCAAAGGTAATC
TCTTGTGACGAATTTCCATTTCTATACTTTATGGGACACTAGAACTAAAAGCAACAAATAATCTGATAT
AAGTCTTGTATAGTCATCTTCAATTCAGTAGCAATATTTTCTGGTCACTACTAACCTGTATTGTATTA
AAATGAGACTATTGGAAGGAAATGGTGTAAAACATAAATCATCTTACCAACCTTTACCAACTCCTG
GGTTGGCAAACAGCTGACCAAACCTGCCATCACCTCCCACTTGGAAAGTGTATGGCCGACAGCATGAAATAG
CTGAGCCCAGATGTTCTTCTGCATCCTCCGAATCCCAGGGCTGGGTGTAGGTAGCCGTTGGAGGCCATC
GCTACAGGGCACCTATCTGTTATCGCTGTCTCCCAACAGCTGTCTCCAGTTCTAGTTCTTGGTTTT
TCAGGCACAGTGGGGATGTTCTGCACCCAGTGGACTTCAAAGAGTTTTGAAGACTTAATTTTTGTAA
AACAGTACTTGAGATTTTGGTTTATCCATAATAGAATGTATTTTATTAGATTCTCTGATTCTATATAAG
AATGTGAAAAGATTGATATATTGTTGTTAGAAATAATGTATTTCTTTCAATTTTTTTTTTTTTTTTT
TTTTGAGATGGAGTCTCGCTCTGTCACCCAGGCCTGGAGTCAGTGGTGTGATCTCGGCTCACTGCAGCCT
CTAACTCCAGGTTCAAGCTATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGATTACAGGCATACACCACC
ACGCCTGGCTATGTTTTGATTTTTCTGGAGATAGGGTTTACCAGTGTGGCCAGGCTGGTCTCGAACT
CCTGACCTCAGGTGATCCACCACTTCACTTCCAGAGCACTGGGATTACAGGTGTGAGCCACTGTGCC
CGGCAATTTTTTTACCTTTACAGAAGGTTTTGCTTATTTAATTGTGAGCTCATTTTCTTTGTTACTTTT
GTCCCCCAGATTTGGGGGACAAAATAAAATTAATCTTTTAAAATGTGTGAGCCATATGTATGGGGCTTC
CATTGGGGTGGAGAGAAAGTTCTGGAAGTAGATAGTGGTGTGTTATACAACATCATAAATGCATTAC
TGCCCTGAATTGTATGTTTTAAAGTGGTAAAATGTAAAGTTTTATGTTTTATTACATTTTTAAATGTGT
CAACCACTTTATAGTACATAAATATATCTCAGTAAAGCTGTTAAATAAATAAATATAGTAAAAATTTTA
GAACTAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK026942 unedited TCAGATTATGTAATACGACTTCACTATAGGGCGGCCGCGAATTCGCACGAGGGCCGACAG CATGAAATAGCTGAGCCCAGATGTTCTTCTGCATCCTCCGATCCCAGGCTGGGTGTAGG TAGCCGTTGGAGGCCATCGCTACAGGGCACCTATCTGTTATCGCTGCTGCCTCCCAACA GCTGTCTCCAGTTCTAGTTCCTTGGTTTTTCAGGCACAGTGGGGATGTTCTGCACCCAGT GGACTTCAAAAAGAGTTTTGAAGACTTAATTTTTTGAAAAACAAGTACTTGAGATTTTGGT TTATCCATAATAGAATGTATTTTCATTAGATTCTCTGATTCTATATAAGAATGTGAAAAGA TTGATATATTGTTGTTAGAAATAATGTTATTTCTTTCCAATTTTTTTTTTTTTTTTTTTT TTGAGATGGAGTCTCGCTCTGTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCAC TGCAGCCTCTAACTCCCAGGTTCAAGCTATTCTCCTGCCTCAGCCTCCAAGTAGCTGGA TTACAGGCATACACCACCAGCCTGGCTATGTTTTGTATTTTTCGTAGAGATAGGGTTTC ACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTATCCACCCACTTCAGCTT CCCAAAGCACTGGGATTACAGGTGTGAGCCACTGTGCCCGCAAATTTTTTTACCTTTAC AGAAGTTTTGCTTATTTAATTGTGAGCTATTTTTCTTTGTTACTTTTGTCCCCCAGA TTTGGGGGACAAAATAAATTAATCTTTTAAAATGTGTCAGCCATATGTATGGGGCTTNC A TTTGGNGTGAATGAGAAAGTCTGGAAGTAGATAGTGGNCATGGGTATACCACATCATAAA ATGCANTACTGNCACTGNATNGTATGTTNTAAAAGTGGTAAAAAGGTTAAAGTTTATGTT TATTACAATTTTAAATGTGTCAACCAACTTATAGTACATAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK026942
<b>Insert Size:</b>	1150 bp
<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>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="#">AK026942.1</a>
<b>RefSeq Size:</b>	2265 bp
<b>RefSeq ORF:</b>	2265 bp
<b>Locus ID:</b>	411
<b>Cytogenetics:</b>	5q14.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Lysosome, Metabolic pathways

**Gene Summary:**

Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondriotin sulfate, and dermatan sulfate. The protein is targeted to the lysozyme. Mucopolysaccharidosis type VI is an autosomal recessive lysosomal storage disorder resulting from a deficiency of arylsulfatase B. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2016]