

Product datasheet for **SC322561**

ARSB (NM_198709) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSB (NM_198709) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARSB
Synonyms:	ASB; G4S; MPS6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322561
 CTTGAAAGTAACCGCACCTTCCAAAGGGCACCGTGCAATCAGACTGAAACCACGGTGCAA
 ATTTAATTGCCGGGAAGATAACGGGCCTTGGTGCCCTCCAAGCGTCAGCTGAGTTTCCA
 AGAAGCCGGGCAGCGGGCGCCCGGGTTCGTCTCTGGCTCCTCCTCCGCCACAGCAGCC
 GGGGGCCCGGGTTCGGAGGCGGGGGCCGAGCGCCCGGCTCGCAAGCCACAGGCCCGC
 TGGGGTGCCTCCCGCGCCGGGGCCGAGCAGGCCCGGACGCCAGTTCTCCTCATTCTAT
 CAGCGGTACAAGGGCTGGTGGCGCCACAGGCGCTGGGACCGGGCGGACAAGGATGGG
 TCCGCGCGGGCGGCGAGCTTGCCCGAGGCCCGGACCTCGGGCGCTGCTCCTCCCGT
 CGTCTCCCGTCTGCTGCTGCTGTTGTTGGCGCCCGGGCTCGGGCGCCGGGCCAG
 CCGGCCGCCACCTGGTCTTCTTGGTGGCAGACGACCTAGGCTGGAACGACGTCGGCTT
 CCACGGCTCCCGCATCCGCACGCCGACCTGGACGCGCTGGCGCCGGCGGGTGTCTCT
 GGACAATACTACACGACGCCGTGTGCACGCCGTCGCGGAGCCAGCTGCTCACTGGCCG
 CTACCAGATCCGTACAGTTTACAGCACAAATAATCTGGCCCTGTCAGCCAGCTGTGT
 TCCTCTGGATGAAAACTCCTGCCCCAGCTCCTAAAAGAAGCAGTTATACTACCATAT
 GGTCGGAATGACACTGGGAATGTACCGAAAGAATGCCTTCAACCCGCCGAGGATT
 TGATACCTACTTTGGATATCTCCTGGGTAGTGAAGATTATTATCCCATGAACGCTGTAC
 ATTAATTGACGCTCTGAATGTACACGATGTGCTCTTGATTTTCGAGATGGCGAAGAAGT
 TGCAACAGGATATAAAAAATATGTATTCAACAAACATATTCACAAAAGGGCTATAGCCCT
 CATAACTAACCATCCACCAGAGAAGCCTCTGTTTCTCTACCTTGCTCTCCAGTCTGTGCA
 TGAGCCCTTCAGGTCCCTGAGGAATACTTGAAGCCATATGACTTTATCCAAGACAAGAA
 CAGGCATCACTATGCAGGAATGGTGTCCCTTATGGATGAAGCAGTAGGAAATGCTACTGC
 AGCTTTAAAAAGCAGTGGGCTCTGGAACAACACGGTGTTCATCTTTTCTACAGATAACGG
 AGGGCAGACTTTGGCAGGGGTAATAACTGGCCCTTCGAGGAAGAAAATGGAGCCTGTG
 GGAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCTTGCTGAAGCAGAAGGGCGT
 GAAGAACCGGGAGCTCATCCACATCTCTGACTGGCTGCCAACTCGTGAAGCTGGCCAG
 GGGACACACCAATGGCACAAAGCCTCTGGATGGCTTCGACGTGTGAAAACCATCAGTGA
 AGGAAGCCATCCCCAGAATTGAGCTGCTGCATAATATTGACCCGAACCTCGTGGACTC
 TTCACCGTACTGGCCTGAGTGTCTGCTGTTGTAGCTACCACCACTTTCTACTGAAG
 ATGATAACCCAGGCATAAGAAATGACTTCAGACCCAAGTTCTGAAAGGGCCCCCTAAG
 GCCTCGGGTGGCTCCTGCAGAAGTGGCAGAAGAGCGGGAAGTGAACCTGGCATCATA
 GAAAAAGTGCCTTCTCAAGAAAGAAGGGGCCCAAGAGGCTGTCTTACTTAGATCAACC
 ATAACTACCACAGATGGGTCAATTTCTTATACTATTTCAAATATCTTTGAAGATGAGAA
 TTCATTTGTGCTTTCATAGACCAAAGTTCTTTGTGTTACCTTTTCCAAAAGTAAATTC
 CTTTCCCTTATTCATTCCTTGTGGAAATAAATGCAAGCCCTTAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_198709

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:	<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_198709.1 , NP_942002.1
RefSeq Size:	1983 bp
RefSeq ORF:	1242 bp
Locus ID:	411
UniProt ID:	P15848
Cytogenetics:	5q14.1
Protein Families:	Druggable Genome
Protein Pathways:	Glycosaminoglycan degradation, Lysosome, Metabolic pathways
Gene Summary:	<p>Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondroitin sulfate, and dermatan sulfate. The protein is targeted to the lysosome. 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]</p> <p>Transcript Variant: This variant (2) has an alternate 3' sequence, as compared to variant 1. The resulting isoform 2 has a distinct and shorter C-terminus, as compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because transcript sequence consistent with the reference genome assembly was not available for all regions of the RefSeq transcript. The extent of this transcript is supported by transcript alignments.</p>