

Product datasheet for **SC114442**

ARSB (NM_000046) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSB (NM_000046) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARSB
Synonyms:	ASB; G4S; MPS6
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 SC114442 sequence for NM_000046 edited (data generated by NextGen Sequencing)

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ATGGGTCCGCGCGGCGCGGAGCTTGCCCCGAGGCCCGGACCTCGGCGGCTGCTCCTC
CCCGTCGTCTCCCGTCTGCTGCTGCTGTTGTTGGCGCCGCGGGCTCGGGCGCCGGG
GCCAGCCGGCCCGCCACCTGGTCTTCTTGCTGGCAGACGACCTAGGCTGGAACGACGTC
GGCTTCCACGGCTCCCGCATCCGCACGCCGACCTGGACGCGCTGGCGGCCGGCGGGGTG
CTCTTGACAACACTACTACACGCAGCCGCTGTGCACGCCGTCGCGGAGCCAGCTGCTCACT
GGCCGCTACCAGATCCGTACAGGTTTACAGCACCAATAATCTGGCCCTGTCAGCCGAGC
TGTGTTCTCTGGATGAAAAACTCTGCCCCAGCTCCTAAAAGAAGCAGGTTATACTACC
CATATGGTCGAAAAATGGCACCTGGGAATGTACCGAAAAAATGCCTTCCAACCCGCCGA
GGATTTGATACCTACTTTGGATATCTCCTGGGTAGTGAAGATTATTATCCCATGAACGC
TGTACATTAATTGACGCTCTGAATGTCACACGATGTGCTCTTGATTTTCGAGATGGCGAA
GAAGTTGCAACAGGATATAAAAAATGTATTCAACAAACATATTCACCAAAGGGCTATA
GCCCTCATAACTAACCATCCACCAGAGAAGCCTCTGTTTCTCTACCTTGCTCTCCAGTCT
GTGCATGAGCCCTTTCAGTCCCTGAGGAATACTGAAGCCATATGACTTTATCCAAGAC
AAGAACAGGCATCACTATGCAGGAATGGTGTCCCTTATGGATGAAGCAGTAGGAAATGTC
ACTGCAGCTTTAAAAGCAGTGGGCTCTGGAACAACACGGTGTTCATCTTTTCTACAGAT
AACGGAGGGCAGACTTTGGCAGGGGGTAATAACTGGCCCTTCGAGGAAGAAAATGGAGC
CTGTGGGAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCTTGCTGAAGCAGAAG
GGCGTGAAGAACCAGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCTG
GCCAGGGGACACCAATGGCACAAGCCTCTGGATGGCTTCGACGTGTGAAAACCATC
AGTGAAGGAAGCCATCCCCAGAATTGAGCTGCTGCATAATATTGACCCGAACCTCGTG
GACTCTTCACCGTGTCCAGGAACAGCATGGCTCCAGCAAGGATGACTCTTCTCTTCCA
GAATATTACAGCCTTTAACACATCTGTCCATGCTGCAATTAGACATGGAATTGAAAACTC
CTCACGGGCTACCCAGGCTGTGGTTACTGGTTCCTCCACCGTCTCAATACAATGTTTCT
GAGATACCCTCATCAGACCCACCAACCAAGACCCTCTGGCTCTTTGATATTGATCGGGAC
CCTGAAGAAAGACATGACCTGTCCAGAGAATATCCTCACATCGTCACAAAAGCTCTGTCC
CGCCTACAGTTCTACCATAAACTCAGTCCCGTGTACTTCCCTGCACAGGACCCCGC
TGTGATCCCAAGGCCACTGGGGTGTGGGGCCCTTGATGTAG
    
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Clone variation with respect to NM_000046.3
1072 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000046 unedited

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GTCAGCTTTTGAATACGACTTACNTATAGGGCGGCCGCGATTCCGCACGAGGGACAAGG
ATGGGTCCGCGCGGCGCGGAGCTTGCCCCGAGGCCCGGACCTCGGCGGCTGCTCCTC
CCCGTGTCTCCCGTCTGCTGCTGTTGTTGGCGCCGCGGGCTCGGGCGCCGGG
GCCAGCCGGCCCGCCACCTGGTCTTCTTGCTGGCAGACGACCTAGGCTGGAACGACGTC
GGCTTCCACGGCTCCCGCATCCGCACGCCGACCTGGACGCGCTGGCGGCCGGCGGGGTG
CTCCTGGACAACACTACTACACGCAGCCGCTGTGCACGCCGTCGCGGAGCCAGCTGCTCACT
GGCCGCTACCAGATCCGTACAGGTTTACAGCACCAATAATCTGGCCCTGTCAGCCGAGC
TGTGTTCTCTGGATGAAAAACTCTGCCCCAGCTCCTAAAAGAAGCAGGTTATACTACC
CATATGGTCGAAAAATGGCACCTGGGAATGTACCGAAAAAATGCCTTCCAACCCGCCGA
GGATTTGATACCTACTTTGGATATCTCCTGNGTAGTGAAGATTATTATCCCATGAACGC
TGTACATTAATTGACGCTCTGAATGTCACACGATGTGCTCTTGATTTTCGAGATGGCGAA
GAAGTTGCAACAGGATATAAAAAATGTATTCAACANACATATTCACCAAAGGGCTATA
GCCCTCATAACTAACCATCCACCAGAGAAGCCTCTGTTTCTCTACCTTGCTCTCCAGTCT
GTGCATGAGCCNCTTTCAGTCCCTNGAGAATACTTGAAGCCATATGACTTTATCCAAGAC
AGAACAGGCATCACTATGCAGGAATGGTGTCCCTTATGATGAAGCAGTAGGAAATGTCA
CTGCAGCTTTTAAAAGCAGTGGGCTCTGGAACAACACGTGTTTCATCTTTCTACAGATACN
GAGGGCAGACTT
    
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Protein Pathways: 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, 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]
Transcript Variant: This variant (1) encodes the longer isoform (1). 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.