

Product datasheet for **MR224881**

Arsb (NM_009712) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arsb (NM_009712) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arsb
Synonyms:	1110007C02Rik; AI480648; As-1; As-1r; As-1s; As-1t; As1; As1-r; As1-s; As1-t; Asr-1; Ast-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224881 representing NM_009712
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAGCTTAGCCCGTGCCTGGCAGGAGCCGGCCTGGAGGTCCCGGCCGAGCTGCCACTCTTGC
 TGCTGCTGCTGCAGCTGCTGCTGCTGCTGCTGCTGCTGCCGGCCCGGCCCTCCGGAGCTACCCAGCCTCCGCA
 TGTGGTCTTCGTGCTGGCGGACGACCTGGGCTGGAACGACTTGGGTTTTACGGCTCGGTATCCGCACG
 CCGCACCTGGATGCGCTGGCGGCCGGCGGCTGGTCTGGACAATACTACGTGCAGCCGCTGTGCACGC
 CCTCGCGGAGCCAGCTGCTCACCGGCCGCTATCAGATCCATTTGGGTTACAGCATTACCTCATCATGAC
 CTGTCAGCCCAGCTGTGTTCCCCTAGACGAAAACTCCTGCCCCAGCTTTAAAGGAAGCAGGCTATGCT
 ACGCACATGGTCGGGAAATGGCACCTGGGGATGTACCGGAAAGAATGTCTGCCGACACGCCGAGGATTCCG
 ATACCTACTTCGGATACCTCCTAGGCAGTGAAGACTATTACCCACGAGGCCTGTGCGCCGATTGAGTC
 TTTGAATGGTACCGCTGTGCGCTTGACTTAAGAGATGGTGAAGAACCTGCAAAAGAGTATAACAATATT
 TACTCAACAAACATATTTACAAAAGGGCTACAACCGTCATAGCTAACCCACCAGGAGAAACCACTGT
 TCCTCTACCTTGCTTTCCAGTCTGTCCACGATCCCTGCAGGTCCCTGAGGAGTACATGGAGCCATATGG
 CTTTCATCCAAGATAAGCACAGACGTATTTATGCAGGGATGGTGTCCCTCATGGATGAAGCAGTGGGGAAC
 GTCACCAAAGCCTTGAAGGCCACGGGCTCTGGAACAACCGGTCTTCATCTTCCACAGATAACGGTG
 GGCAGACTAGGTCTGGAGGCAACAACCTGGCCACTCCGAGGAAGGAAGGGGACCCTGTGGGAAGGGGGCAT
 CCGAGGAACGGGCTTCGTGGCAAGCCCCCTGCTGAAACAGAAAGGCGTGAAGAGCCGGAACTCATGCAC
 ATCACCGATTGGTCCCCACACTCGTAGATCTGGCTGGGGGAAGCACTAATGGAACCAAACCTCTGGATG
 GCTTCAACATGTGAAGACAATCAGTGAAGGACACCCATCCCCGAGAGTGGAGCTGCTACACAACATCGA
 TCAGGACTTTTTGATGGCTTGCCATGTCTGGCAAGAACAATGACTCCAGCAAAGGACGATTCTTTCCG
 TTAGAACATTCTGCCTTTAACACGTCTATCCATGCTGGGATCAGATACAAAAATTGGAACTCCTCACGG
 GCCACCCAGGCTGTGGTTACTGGTTCGCCCTCCGTCTCAGTCCAACGTCTCTGAGATACCTCCAGTGG
 CCCACCAACCAAGACTCTCTGGCTTTTGGATCAATCAGGACCTGAAGAAAGACACGAGCTGTCCCGA
 GAGCACCCACATCGTCCAGAACCTTCTTCCCGCTGCAGTACTACCATGAACATTCTGTGCCTTCTC
 ACTTCCACCCCTTGACCCCGCTGCGATCCCAAGAGCACTGGTGTGGAGCCCTGGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224881 representing NM_009712
 Red=Cloning site Green=Tags(s)

MGKLSPECTGRSRPGGPGPQLPLLLLLLQLLLLLLSPARASGATQPPHVVFVLADDLGWNDLGFHGSVIRT
 PHLDALAAGGVVLDNYVYQPLCTPSRSQLLTGRYQIHLGLQHYLIMTCQPSCVPLDEKLLPQLLKEAGYA
 THMVGKWHLGMRYKECLPTRRGFDTYFGYLLGSEDIYTHEACAPIESLNGTRCALDLRDGEEPKEYNNI
 YSTNIFTKRATTVIANHPPEKPLFLYLAFQSVHDPLQVPEEYMEPYGFIQDKHRRYIAGMYSMLMDEAVGN
 VTKALKSHGLWNTVFIFSTDNGGQTRSGGNNWPLRGRKGTLEGGIRGTGFVAPLLKQKGVKSRELMH
 ITDWLPTLVDLAGGSTNGTKPLDGFNMWKTISEGHSPRVELLHNIDQDFDGLPCPGKNMTPAKDDSPF
 LEHSAFNSTIHAGIRYKNWKLITGHPGCGYWFPPPSQSNVSEIPPVDPPTKTLWLFIDINQDPEERHDVSR
 EHPHIVQNLLSRLQYYHEHSVSHFPPLDPRCDPKSTGVWSPWM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9074_h10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_009712

ORF Size: 1602 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_009712.3](#), [NP_033842.3](#)

RefSeq Size: 3989 bp

RefSeq ORF: 1605 bp

Locus ID: 11881

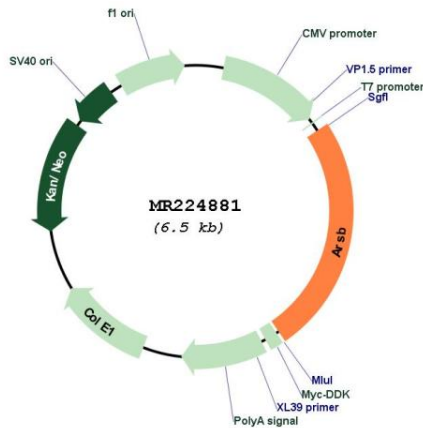
UniProt ID: [P50429](#)

Cytogenetics: 13 47.88 cM

MW: 59.7 kDa

Gene Summary: Removes sulfate groups from chondroitin-4-sulfate (C4S) and regulates its degradation (By similarity). Involved in the regulation of cell adhesion, cell migration and invasion in colonic epithelium (By similarity). In the central nervous system, is a regulator of neurite outgrowth and neuronal plasticity, acting through the control of sulfate glycosaminoglycans and neurocan levels (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224881