

Product datasheet for **MG224881**

Arsb (NM_009712) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arsb (NM_009712) Mouse Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG224881 representing NM_009712
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGCAAGCTTAGCCCCGTGCACTGGCAGGAGCCGGCCTGGAGGTCCCGGGCCGAGCTGCCACTCTTGC
 TGCTGCTGCTGCAGCTGCTGCTGCTGCTGCTGCTGCCGGCCCGGGCCTCCGGAGCTACCCAGCCTCCGCA
 TGTGGTCTTCGTGCTGGCGGACGACCTGGGCTGGAACGACTTGGGTTTTACGGCTCGGTATCCGCACG
 CCGCACCTGGATGCGCTGGCGGCCGGCGGCGTGGTCTGGACAACACTACTACGTGCAGCCGCTGTGCACGC
 CCTCGCGGAGCCAGCTGCTACCGGCCGCTATCAGATCCATTTGGGCTTACAGCATTACCTCATCATGAC
 CTGTCAGCCCAGCTGTGTTCCCCTAGACGAAAACTCCTGCCCCAGCTTTTAAAGGAAGCAGGCTATGCT
 ACGCACATGGTCGGGAAATGGCACCTGGGGATGTACCGGAAAGAATGTCTGCCGACACGCCGAGGATTGCG
 ATACCTACTTCGATACCTCCTAGGCAGTGAAGACTATTACACCCACGAGGCCTGTGCGCCGATTGAGTC
 TTTGAATGGTACCGCTGTGCGCTTGACTTAAGAGATGGTGAAGAACCTGCAAAAGAGTATAACAATATT
 TACTCAACAAACATATTTACAAAAGGGCTACAACCGTCATAGCTAACCCACCGGAGAAACCACTGT
 TCCTCTACCTTGCTTTCCAGTCTGTCCACGATCCCTGCAGGTCCCTGAGGAGTACATGGAGCCATATGG
 CTTTCATCCAAGATAAGCACAGACGTATTTATGCAGGGATGGTGTCCCTCATGGATGAAGCAGTGGGGAAC
 GTCACCAAAGCCTTGAAAGCCACGGGCTCTGGAACAACCGGTCTTCATCTTCTCCACAGATAACGGTG
 GGCAGACTAGGTCTGGAGGCAACAACCTGGCCACTCCGAGGAAGGAAGGGGACCCTGTGGGAAGGGGGCAT
 CCGAGGAACGGGCTTCGTGGCAAGCCCCCTGCTGAAACAGAAAGCGTGAAGAGCCGGGAACCTCATGCAC
 ATCACCGATTGGTCCCCACACTCGTAGATCTGGCTGGGGGAAGCACTAATGGAACCAAACTCTGGATG
 GCTTCAACATGTGAAGACAATCAGTGAAGGACACCCATCCCCGAGAGTGGAGCTGCTACACAACATCGA
 TCAGGACTTTTTTGTATGGCTTGCCATGTCTGGCAAGAACATGACTCCAGCAAAAGGACGATTCTTTTCCG
 TTAGAATTCTGCCTTTAACACGTCTATCCATGCTGGGATCAGATACAAAAATTGGAACCTCTCACGG
 GCCACCCAGGCTGTGGTTACTGGTTCCTGCTCCGCTCTCAGTCCAACGTCTCTGAGATACCTCCAGTGGA
 CCCACCAACCAAGACTCTCTGGCTTTTGTATCAATCAGGACCTGAAGAAAGACACGACGTGTCCCGA
 GAGCACCCCCACATCGTCCAGAACCTTCTTCCCGCTGCAGTACTACCATGAACATTCTGTGCTTCTC
 ACTTCCACCCCTTGACCCCGCTGCGATCCCAAGAGCACTGGTGTGGAGCCCTGGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

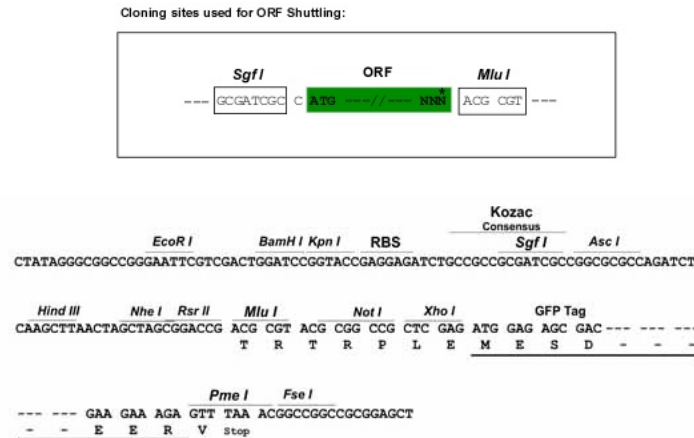
>MG224881 representing NM_009712
 Red=Cloning site Green=Tags(s)

MGKLSPTGRSRPGPGPQLPLLLLLLQLLLLLLSPARASGATQPPHVVFVLADDLGNWDLGFHGSVIRT
 PHLDALAAGGVLDNYYYVQPLCTPSRSQLLTGRYQIHLGLQHYLIMTCQPSCVPLDEKLLPQLLKEAGYA
 THMVGKWHLGMYRKECLPTRRGFDYFGYLLGSEDIYTHEACAPIESLNGTRCALDLRDGEPAKEYNNI
 YSTNIFTKRATTIANHPPEKPLFLYLAFQSVHDPLQVPEEYMEPYGFIQDKHRRYIAGMVSLMDEAVGN
 VTKALKSHGLWNNTVFIIFSTDNGGQTRSGGNNWPLRGRKGTLEGGIRGTGFVASPLLKQKGVKSRELMH
 ITDWLPTLVDLAGGSTNGTKPLDGFNMWKTISEGHSPRVELLHNIDQDFDGLPCPGKNMTPAKDDSPF
 LEHSFNTSIHAGIRYKNWKLITGHPGCGYWFPPPSQSNVSEIPPVDPPTKTLWLFIDINQDPEERHDVSR
 EHPHIVQNLLSRLQYYHEHVSHPPLDPRCDPKSTGVWSPWM

TRTRPLE – GFP Tag – V

Restriction Sites:

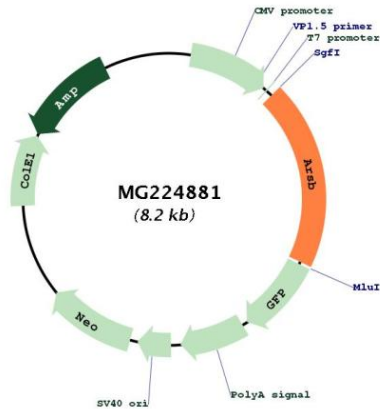
Sgfl-MluI

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:	<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_009712.3 , NP_033842.3
RefSeq Size:	3989 bp
RefSeq ORF:	1605 bp
Locus ID:	11881
UniProt ID:	P50429
Cytogenetics:	13 47.88 cM

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 MG224881