

Product datasheet for **RR215624**

Arsb (NM_033443) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arsb (NM_033443) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arsb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR215624 representing NM_033443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCGAGCTGAGCGGATGCACCGCGGGAGCCGAGCTGGAGGTCGGGGCCGGCTGCCACTGTTGC
 TGCTGCTGCTGTGGCCCGCCGGGCTCCGACGCGCCCGCCGCCCCATGTGGTCTTCGTGCTGGC
 GGACGACCTGGGCTGGAACGACTTGGGTTTCCACGGCTCGGTTCATCCGCACGCCGACCTGGATGCGCTG
 GCGGCCGGCGGCTGGTCTGGACAACACTACGTGCAGCCGCTGTGCACGCCCTCGCGGAGCCAGCTGC
 TACCGGCCGCTATCAGATCCATATGGGCTTACAGCATTACCTCATCATGACCTGTGAGCCAACTGTGT
 TCCGCTAGACGAAAACTCCTGCCCCAGCTTTAAAGGACGCAGGCTATGCTACGCATATGGTCGGAAAA
 TGGCACCCTGGGAATGTACCGGAAGGAATGCCTGCCAACCCGCAGAGGATTCGATACGTACTTCGGATACC
 TCCTAGGCAGTGAAGACTACTACCCACGAGGCTGTGCACCGATTGAGTGTCTGAACGGTACCCGCTG
 TCGCTTGATCTCCGAGATGGCGAAGAACCTGCAAAGAGTATACAGATATTTACTCAACAAACATATTT
 ACCAAAAGGGCTACAACCTCATAGCTAACACCCCCCGAGAAACCACTGTTCCCTACCTTGCTTTCC
 AGTCTGTCCACGATCCCCTGCAGGTCGCCGAGGAGTACATGGAGCCATATGACTTCATCCAAGACAAGCA
 CAGACGTATTTATGCAGGGATGGTATCCCTCCTGGACGAAGCAGTGGGAATGTCACCAAAGCCTTGAAA
 AGCCGAGGGCTCTGGAACAACACGGTCTCATCTTCTCCACAGACAACGGCGGGCAGACTAGGTCTGGAG
 GCAACAACCTGGCCACTTCGAGGAAGGAAAGGGACCCTGTGGGAAGGTGGCATCCGAGGAGCAGGTTTCGT
 GGCAAGCCCTTGCTGAAACAGAAAGGTGTGAAGAGCCGGGAGCTCATGCACATCACCGATTGGCTTCCA
 ACGCTGGTGAATCTGGCTGGGGGAAGCACCCATGGAACCAAACCTCTGGATGGCTTCGACGTGTGGGAAA
 CAATCAGTGAAGGAAGCCATCCCAAGAGTGGAGCTGCTACTTAACATCGATCCAGACTTTTTCGATGG
 CTTACCATGTCCGGCAAGAACACGACTCCAGAAAAGAAGCATTCTTTCCCTTTAGAACATTCTGCCTTT
 AACACATCTATCCATGCTGGGATCAGATACAAAACTGGAACCTCCTCACGGGCTACCCAGGCTGTGGTT
 ACTGGTCCCAGCCAGTCTCAGTCCAACATCTCTGAGGTACCTCAGTGGACTACCAACCAAGACTCT
 CTGGCTCTTTGACATCAATCGGGACCCTGAAGAAAGACATGACGTGTCCCGGGAACATCCCCACATCGTC
 CAGAACCTTTTCCCGCTACGTAACATGAACTTCTGTGCCTTCTACTCCCACCTTTGGACC
 CCCGCTGTGATCCCAAGGTTACCGGTGTATGGAGCCCTGGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

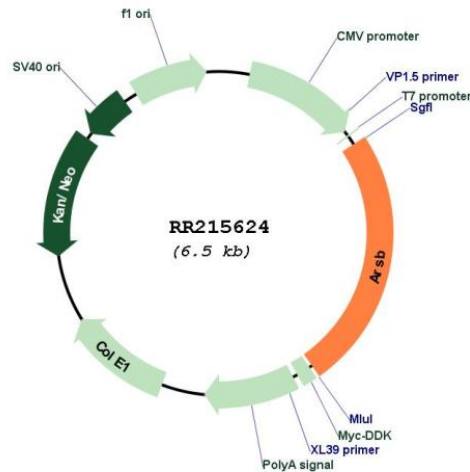
>RR215624 representing NM_033443
 Red=Cloning site Green=Tags(s)

MGELSGCTGGSRAGGPGPRLPLLLLLLWPARASDAAPPHVVFVLAADDLGNLDFHGSVIRTPHLDAL
 AAGGVLDNYYVQPLCTPSRSQLLTGRYQIHMGLQHYLIMTCQPNVPLDEKLLPQLLDAGYATHMVGK
 WHLGMYRKECLPTRRGFDYFYGILLGSEDIYTHEACAPIECLNGTRCALDLRDGEPEAKYTDIYSTNIF
 TKRATTLIANHPPEKPLFLYLAFQSVHDPLQVPEEYMEPYDFIQDKHRIYAGMVSLLDEAVGNVTKALK
 SRGLWNTVLIIFSTDNGGQTRSGGNWPLRGRKGTLWEGGIRGAGFVASPLLKQKGVKSRELMHITDWLP
 TLVNLAGGSTHGKPLDGFVWETISEGSPSPRVLELLNIDPDFDGLPCPGKNTTPEKNSFPLEHSAF
 NTSIHAGIRYKNWLLTGYPGCGYWFPPPSQSNISEVPSVDSPTKTLWLFDIRDPEERHDSREHPHIV
 QNLLSRLQYYHEHSVPSYFPPLDPRCDPKGTGVWSPWM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_033443

ORF Size: 1584 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_033443.1](#), [NP_254278.1](#)

RefSeq Size: 1862 bp

RefSeq ORF: 1587 bp

Locus ID: 25227

UniProt ID: [P50430](#)

Cytogenetics: 2q12

MW: 59 kDa

Gene Summary: Removes sulfate groups from chondroitin-4-sulfate (C4S) and regulates its degradation (PubMed:24311516). In the central nervous system, is a regulator of neurite outgrowth and neuronal plasticity, acting through the control of sulfate glycosaminoglycans and neurocan levels (PubMed:24311516). Involved in the regulation of cell adhesion, cell migration and invasion in colonic epithelium (By similarity).[UniProtKB/Swiss-Prot Function]