

Product datasheet for **RN215624**

Arsb (NM_033443) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN215624 representing NM_033443
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCGAGCTGAGCGGATGCACCGCGGGAGCCGAGCTGGAGGTCGGGGCCGCGGCTGCCACTGTTGC
 TGCTGCTGCTGCTGTGGCCCGCCGGGCTCCGACGCGCCCGCCGCGCCCATGTGGTCTTCGTGCTGGC
 GGACGACCTGGGCTGGAACGACTTGGGTTTCCACGGCTCGGTTCATCCGCACGCCGACCTGGATGCGCTG
 GCGGCCGCGCGGTGGTCTGGACAACACTACGTGCAGCCGCTGTGCACGCCCTCGCGGAGCCAGCTGC
 TCACCGGCCGCTATCAGATCCATATGGGCTTACAGCATTACCTCATCATGACCTGTGAGCCAACTGTGT
 TCCGCTAGACGAAAACTCCTGCCCCAGCTTTTAAAGGACGCAGGCTATGCTACGCATATGGTCGGAAAA
 TGGCACCTGGGAATGTACCGGAAGGAATGCCTGCCAACCCGCAGAGGATTCGATACGTACTTCGGATACC
 TCCTAGGCAGTGAAGACTACTACCCACGAGGCTGTGCACCGATTGAGTGTCTGAACGGTACCCGCTG
 TGGCTTGATCTCCGAGATGGCGAAGAACCTGCAAAAGAGTATACAGATATTTACTCAACAAACATATTT
 ACCAAAAGGGCTACAACCTCATAGCTAACCCACCCCGAGAAACCACTGTTCCCTACCTTGCTTTCC
 AGTCTGTCCACGATCCCCTGCAGGTCGCCGAGGAGTACATGGAGCCATATGACTTCATCCAAGACAAGCA
 CAGACGTATTTATGCAGGGATGGTATCCCTCCTGGACGAAGCAGTGGGAATGTCACCAAAGCCTTGAAA
 AGCCGAGGGCTCTGGAACAACACGGTCTCATCTTCTCCACAGACAACGGCGGGCAGACTAGGTCTGGAG
 GCAACAACCTGGCCACTTCGAGGAAGGAAAGGGACCCTGTGGGAAGGTGGCATCCGAGGAGCAGGTTTCGT
 GGCAAGCCCTTGCTGAAACAGAAAGGTGTGAAGAGCCGGGAGCTCATGCACATCACCGATTGGCTTCCA
 ACGCTGGTGAATCTGGCTGGGGGAAGCACCCATGGAACCAACCTCTGGATGGCTTCGACGTGTGGGAAA
 CAATCAGTGAAGGAAGCCATCCCAAGAGTGGAGCTGCTACTTAACATCGATCCAGACTTTTTCGATGG
 CTACCATGTCCCTGGCAAGAACACGACTCCAGAAAAGAAGCATTCTTTTCCCTTTAGAACATTCTGCCTTT
 AACACATCTATCCATGCTGGGATCAGATACAAAACTGGAACCTCCTCACGGGCTACCCAGGCTGTGGTT
 ACTGGTCCCAGCCAGTCTCAGTCCAACATCTCTGAGGTACCTCAGTGGACTCACCAACCAAGACTCT
 CTGGCTCTTTGACATCAATCGGGACCCTGAAGAAAGACATGACGTGTCCCGGGAACATCCCCACATCGTC
 CAGAACCTTTTCCCGCTACGTAACCATGAACATTCTGTGCCTTCTACTCCCACCTTTGGACC
 CCCGCTGTGATCCCAAGGGTACCGGTGTATGGAGCCCTGGAT**G****TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_033443

Insert Size: 1587 bp

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).

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

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]