

Product datasheet for **RC213113**

ARSA (NM_001085428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSA (NM_001085428) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARSA
Synonyms:	ASA; MLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC213113 representing NM_001085428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCATGTACCCTGGCGTCTGGTGCCAGCTCCCGGGGGGCGCTGCCCTGGAGGAGGTGACCGTGG
 CCGAAGTCTGGCTGCCCGAGGCTACCTCACAGGAATGGCCGGCAAGTGGCACCTTGGGGTGGGGCCTGA
 GGGGGCCTTCTGCCCCCCATCAGGGCTTCCATCGATTCTAGGCATCCCGTACTCCCACGACCAGGGC
 CCCTGCCAGAACCTGACCTGTTCCCGCCGGCCACTCCTTGCAGCGGTGGCTGTGACCAGGGCCTGGTCC
 CCATCCCCTGTTGGCCAACTGTCCGTGGAGGCGCAGCCCCCTGGCTGCCCGGACTAGAGGCCCGCTA
 CATGGCTTTCGCCATGACCTCATGGCCGACGCCAGCCAGCCAGGATCGCCCCTTCTTCTGTACTATGCC
 TCTACCACACCCACTACCCTCAGTTCAGTGGCAGAGCTTGCAGAGCGTTCAGGCCCGGGCCATTTG
 GGGACTCCCTGATGGAGCTGGATGCAGCTGTGGGACCCTGATGACAGCCATAGGGGACCTGGGGCTGT
 TGAAGAGACGCTGGTTCATCTTCACTGCAGACAATGGACCTGAGACCATGCGTATGTCCCAGGCGGCTGC
 TCCGGTCTTTCGGGTGTGGAAAGGGAACGACCTACGAGGGCGGTGTCCGAGAGCCTGCCTTGGCCTTCT
 GGCCAGGTCATATCGCTCCCGGCGTGACCCACGAGCTGGCCAGCTCCCTGGACCTGCTGCCTACCCTGGC
 AGCCCTGGCTGGGGCCCCACTGCCAATGTACCTTGGATGGCTTGGACCTCAGCCCCCTGCTGTGGGC
 ACAGGCAAGAGCCCTCGGCAGTCTCTTCTTCTACCCGTCTACCCAGACGAGGTCCGTGGGGTTTTTG
 CTGTGCGGACTGGAAAGTACAAGGCTCACTTCTTACCCAGGGCTCTGCCACAGTGATACCACTGCAGA
 CCCTGCCTGCCACGCTCCAGCTCTCTGACTGCTCATGAGCCCCGCTGCTCTATGACCTGTCCAAGGAC
 CCTGGTGAGAACTACAACCTGCTGGGGGTGTGGCCGGGGCCACCCAGAGGTGCTGCAAGCCCTGAAAC
 AGCTTCAGCTGCTCAAGGCCAGTTAGACGCAGCTGTGACCTTCGGCCCCAGCCAGGTGGCCCCGGGCGA
 GGACCCCGCCCTGCAGATCTGCTGTCTCCTGGCTGCACCCCCCGCCAGCTTGTGCCATTGCCAGAT
 CCCCATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213113 representing NM_001085428
 Red=Cloning site Green=Tags(s)

MGMYPGVLVPSSRGGPLLEEVTVAEVLAARGYLTMAGKWHLVGVPEGAFLPPHQGFHRLGIPYSHDQG
 PCQNLTCFPPATPCDGGCDQGLVPIPLLANLSVEAQPPWLPGLEARYMAFAHDLMADAQRQDRPFFLYYA
 SHHTHYQFSGQSFAERSGRGPFGDSLMELEDAAVGTLMTAIGDLGELLETLVIFTADNGPETMRMSRGGC
 SGLLRGCGKTTYEGGVREPALAFWPGHIAAPVTHELASSLDLLPTLAALAGAPLPNVTLDGFDLSPLLLG
 TGKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFFTQGSAHSDTTADPACHASSSLTAHEPPLLYDLSKD
 PGENYNLLGGVAGATPEVLQALKQLQLLKAQLDAAVTFGPSQVARGEDPALQICCHPGCTPRPACCHCPD
 PHA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001085428

ORF Size: 1269 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_001085428.3](#)
RefSeq Size: 3935 bp

RefSeq ORF: 1272 bp

Locus ID: 410

UniProt ID: [P15289](#)
Cytogenetics: 22q13.33

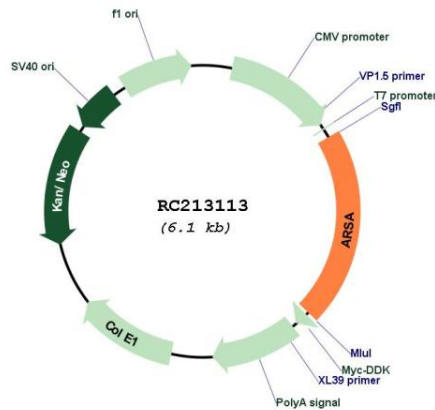
Protein Families: Druggable Genome

Protein Pathways: Lysosome, Sphingolipid metabolism

MW: 44.9 kDa

Gene Summary: The protein encoded by this gene hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC213113