

Product datasheet for **RG213072**

ARSA (NM_001085425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARSA (NM_001085425) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARSA
Synonyms:	ASA; MLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG213072 representing NM_001085425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCACCGGGTCCCTCCTCTGGCCCTGGCTGCTGGCCTGGCCGTGCCCGTCCGCCAACATCG
 TGCTGATCTTTGCCGACGACCTCGGCTATGGGGACCTGGGCTGCTATGGGCACCCAGCTTACCACTCC
 CAACCTGGACCAGCTGGCGGGCGGAGGGGCTGCGGTTACAGACTTCTACGTGCCTGTGTCTCTGTGCACA
 CCCTCTAGGGCCGCCCTCCTGACCGGCCGGCTCCCGGTTCCGATGGGCATGTACCCTGGCGTCTGGTGC
 CCAGCTCCCGGGGGGCCCTGCCCTGGAGGAGGTGACCGTGGCCGAAGTCTGGCTGCCCGAGGCTACCT
 CACAGGAATGGCCGGCAAGTGGCACCTTGGGGTGGGGCTGAGGGGGCCTTCTGCCCCCATCAGGGC
 TTCCATCGATTTCTAGGCATCCCGTACTCCACGACCAGGGCCCTGCCAGAACCTGACCTGCTTCCCGC
 CGGCCACTCCTTGCACGGTGGCTGTGACCAGGGCCTGGTCCCCATCCACTGTTGGCCAACTGTCCGT
 GGAGGCGCAGCCCCCTGGCTGCCCGACTAGAGGCCCGTACATGGCTTTCGCCATGACCTCATGGCC
 GACGCCACAGCCAGGATCGCCCCCTTCTCCTGTACTATGCCTCTCACCACCCACTACCTCAGTTCA
 GTGGGCAGAGCTTTCAGAGCGTTCAGGCCGCGGGCCATTTGGGGACTCCCTGATGGAGCTGGATGCAGC
 TGTGGGGACCCTGATGACAGCCATAGGGGACCTGGGGCTGCTTGAAGAGACGCTGGTCACTTCACTGCA
 GACAATGGACCTGAGACCATGCGTATGTCCCGAGGCGGCTGCTCCGGTCTTTCGGGTGTGGAAAGGGAA
 CGACCTACGAGGGCGGTGTCGAGAGCCTGCCTTGGCCTTCTGGCCAGGTCAATCGCTCCCGCGGTGAC
 CCACGAGCTGGCCAGCTCCCTGGACCTGCTGCCTACCTGGCAGCCCTGGCTGGGGCCCCACTGCCAAT
 GTCACCTTGGATGGCTTTCACCTCAGCCCCCTGCTGCTGGGCACAGGCAAGAGCCCTCGGCAGTCTCTCT
 TCTTACCCGTCCTACCCAGAGGCTCTGCCACAGTGATACCACTGCAGACCCTGCCTGCCACGCTCCAGCTCTG
 ACTGCTCATGAGCCCCGCTGCTCTATGACCTGTCCAAGACCCTGGTGAGAACTACAACCTGCTGGGGG
 GTGTGGCCGGGGCCACCCAGAGGTGCTGCAAGCCCTGAAACAGCTTCAGCTGCTCAAGGCCAGTTAGA
 CGCAGCTGTGACCTTCGGCCCCAGCCAGGTGGCCCGGGCGAGGACCCCGCCCTGCAGATCTGCTGCAT
 CCTGGCTGCACCCCCGCCAGCTTGTGCCATTGCCAGATCCCCATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213072 representing NM_001085425
 Red=Cloning site Green=Tags(s)

MGAPRLLLLALAAGLAVARPPNIVLIFADDLYGDLGCGYHPSSTTPNLDQLAAGGLRFTDFYVPVSLCT
 PSRAALLTGRLPVRMGMPGVLVPSSRGGPLEEVTVAEVLAAARGYLTMAGKWHLGVGPEGAFLPPHQG
 FHRFLGIPYSHDQGPCQNLTCFPPATPCDGGCDQGLVPIPLLANLSVEAQPPWLPGLARYMAFAHDLMA
 DAQRQDRPFFLYYASHHHTYPQFSGQSF AERSGRGPF GDSLMELDAAVGTLMTAIGDLGELLETLVIFTA
 DNGPETMRMRSGGCSGLLRCKGTTYEGGVREPALAFWPGHIA PGVTHELASSLDLLPTLAALAGAPLPN
 VTLDGFDLSPLLLGTGKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFFTQGSAHSDTTADPACHASSSL
 TAHEPPLLVDLSKDPGENYNLLGGVAGATPEVLQALKQLQLLKAQLDAAVTFGPSQVARGEDPALQICCH
 PGCTPRPACCHCPDPA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001085425

ORF Size: 1521 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_001085425.1](#), [NP_001078894.1](#)

RefSeq Size: 1966 bp

RefSeq ORF: 1530 bp

Locus ID: 410

UniProt ID: [P15289](#)

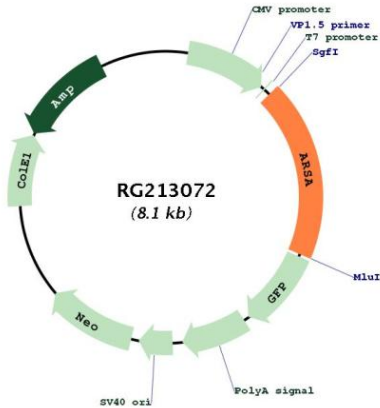
Cytogenetics: 22q13.33

Protein Families: Druggable Genome

Protein Pathways: Lysosome, Sphingolipid metabolism

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 RG213072