

## Product datasheet for **RG213113**

### ARSA (NM\_001085428) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARSA (NM_001085428) 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)
ORF Nucleotide Sequence:	>RG213113 representing NM_001085428 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCATGTACCCTGGCGTCTGGTGCCAGCTCCCGGGGGGCTGCCCTGGAGGAGGTGACCGTGG  
CCGAAGTCTGGCTGCCGAGGCTACCTCACAGGAATGGCCGGCAAGTGGCACCTTGGGGTGGGCTGA  
GGGGGCTTCTGCCCCCATCAGGGCTTCCATCGATTCTAGGCATCCCGTACTCCACGACCAGGGC  
CCCTGCCAGAACCTGACCTGCTCCCGCCGCCACTCCTTGCACGGTGGCTGTGACCAGGGCTGGTCC  
CCATCCCACTGTTGGCCAACTGTCGGTGGAGGCGCAGCCCCCTGGCTGCCCGACTAGAGGCCGCTA  
CATGGCTTTCGCCATGACCTCATGGCCGACGCCAGCGCCAGGATCGCCCTTCTCTGTACTATGCC  
TCTCACCACACCACTACCTCAGTTCAGTGGGCAGAGCTTTCAGAGCGTTTCAGGCCGCGGGCCATTTG  
GGGACTCCCTGATGGAGCTGGATGCAGCTGTGGGGACCCTGATGACAGCCATAGGGGACCTGGGGTGT  
TGAAGAGACGCTGGTCATCTTCACTGCAGACAATGGACCTGAGACCATGCGTATGTCCCAGGGCGGTGC  
TCCGGTCTCTTGGCGTGTGAAAGGGAACGACCTACGAGGGCGGTGTCCGAGAGCCTGCCTTGGCCTTCT  
GGCCAGGTCATATCGCTCCCGCGTGACCCACGAGCTGGCCAGCTCCCTGGACCTGCTGCCTACCTGGC  
AGCCCTGGCTGGGGCCCCACTGCCAATGTCACCTTGGATGGCTTTGACCTCAGCCCCCTGCTGCTGGC  
ACAGGCAAGAGCCCTCGGCAGTCTCTCTTCTACCCGCTCTACCCAGACGAGTCCGTTGGGTTTTTG  
CTGTGCGGACTGGAAAGTACAAGGCTCACTTCTCACCCAGGGCTTGCCACAGTGATACCACTGCAGA  
CCCTGCCTGCCACGCTCCAGCTCTCTGACTGCTCATGAGCCCCGCTGCTCTATGACCTGTCCAAGGAC  
CCTGGTGAGAACTACAACCTGCTGGGGGTGTGGCCGGGGCCACCCAGAGGTGCTGCAAGCCCTGAAAC  
AGCTTCAGCTGCTCAAGGCCAGTTAGACGCAGCTGTGACCTTCGGCCCCAGCCAGGTGGCCCGGGCGA  
GGACCCCGCCCTGCAGATCTGCTGCATCTGGCTGCACCCCGCCAGCTTGTGCCATTGCCAGAT  
CCCATGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213113 representing NM\_001085428  
 Red=Cloning site Green=Tags(s)

MGMYPGVLVPSSRGGLPLEEVTVAEVLAAARGYLTMAGKWHLGVGPEGAFLLPPHQGFHFRFLGIPYSHDQG  
 PCQNLTCFPPATPCDGGCDQGLVPIPLLANLSVEAQPWLPGLEARYMAFAHDLMADAQRDRPFFLYYA  
 SHHTHYPFSGQSF AERSGRGPF GDSLME L DAAVGT LMTAIGDLGLLEETLVIFTADNGPETMRMSRGGC  
 SGLLRGCGKTTYEGGVREPALAFWPGHIAPGVTHELASSLDLLPTLAALAGAPLPNVTLDFDLSPLLL  
 TGKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFF TQSAHSDTTADPACHASSSLTAHEPPLLYDL  
 SKD  
 PENYNTLLGGVAGATPEVLQALKQLQLLKAQLDAAVTFGPSQVARGEDPALQICCHPGCTPRPACCHCPD  
 PHA

TRTRPLE - GFP Tag - V

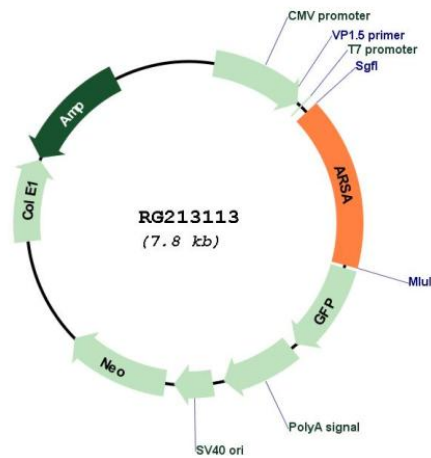
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001085428

<b>ORF Size:</b>	1269 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001085428.3</a>
<b>RefSeq Size:</b>	3935 bp
<b>RefSeq ORF:</b>	1272 bp
<b>Locus ID:</b>	410
<b>UniProt ID:</b>	<a href="#">P15289</a>
<b>Cytogenetics:</b>	22q13.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Sphingolipid metabolism
<b>Gene Summary:</b>	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]