

## Product datasheet for **RC232915**

### ARSG (NM\_001267727) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARSG (NM_001267727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARSG
Synonyms:	USH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC232915 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCTGGCTTTTTCTAAAGTTTTGTTGGCGGGAGTGAGTTTCTCAGGATTTCTTATCTCTTGTGG  
 ATTTTTGCATCAGTGGGAAAACAAGAGGACAGAAGCCAACTTTGTGATTATTTGGCCGATGACATGGG  
 GTGGGTGACCTGGGAGCAAACCTGGGCAGAAACAAGGACACTGCCAACCTTGATAAGATGGCTTCGGAG  
 GGAATGAGGTTTGTGGATTTCCATGCAGCTGCCTCCACCTGCTCACCTCCCGGGCTTCTTGTCTACCCG  
 GCCGGCTTGGCCTTCGCAATGGAGTCACACGCAACTTTCAGTCACTTCTGTGGGAGGCCTTCGGCTCAA  
 CGAGACCACCTTGGCAGAGGTGCTGCAGCAGCGGGTTACGTCACTGGGATAATAGGCAAATGGCATCTT  
 GGACACCACGGCTCTTATCACCCAACTCCGTGGTTTTGATTACTACTTTGGAATCCCATATAGCCATG  
 ATATGGGCTGACTGATACTCCAGGCTACAACCACCTCCTTGTCCAGCGTGTCCACAGGGTGATGGACC  
 ATCAAGGAACCTTCAAAGAGACTGTTACTGACGTGGCCCTCCCTCTTTATGAAAACCTCAACATTGTG  
 GAGCAGCCGGTGAACCTGAGCAGCTTGCCAGAGATGCTGAGAAAGCAACCCAGTTCATCCAGCGTG  
 CAAGCACCAGCGGGAGGCCCTTCTGCTCTATGTGGCTCTGGCCACATGCACGTGCCCTTACCTGTGAC  
 TCAGTACCAGCAGCGCCACGGGCAGAAAGCTGTATGGTGCAGGGCTCTGGGAGATGGACAGTCTGGTG  
 GGCCAGATCAAGGACAAAGTTGACCACACAGTGAAGGAAAACACATTCTCTGGTTTACAGGAGACAATG  
 GCCCGTGGGCTCAGAAGTGTGAGCTAGCGGGCAGTGTGGTCCCTTCACTGGATTTTGGCAAACCTCGTCA  
 AGGGGGAAGTCCAGCCAAGCAGACGACCTGGGAAGGAGGGCACCGGGTCCCAGCACTGGCTTACTGGCCT  
 GGCAGAGTCCAGTTAATGTACCAGCACTGCCTTGTAAAGCGTCTGGACATTTTCCAACCTGTGGTAG  
 CCCTGGCCAGGCCAGCTTACCTCAAGGACCGCGCTTTGATGGTGTGGACGTCTCCGAGGTGCTCTTTGG  
 CCGGTACACAGCCTGGGCACAGGGTGTGTTCCACCCCAACAGCGGGCAGCTGGAGAGTTTGGAGCCCTG  
 CAGACTGTCCGCCTGGAGCGTTACAAGGCTTCTACATTACCGGTGGAGCCAGGGCGTGTATGGGAGCA  
 CGGGCCCTGAGCTGCAGCATAAGTTTCTCTGATTTTCAACCTGGAAGACGATACCGCAGAAGCTGTGCC  
 CCTAGAAAAGAGGTGGTGCAGGAGTACCAGGCTGTGCTGCCCGAGGTGAGAAAGTTCTTGCAGACGCTCTC  
 CAAGACATTGCCAACGACAACATCTCCAGCGCAGATTACTCAGGACCCTTCACTAACTCCCTGCTGTA  
 ATCCCTACCAAATTGCCTGCCGTGTCAAGCCGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232915 protein sequence  
 Red=Cloning site Green=Tags(s)

MGWLFLKVLLAGVSFSGFLYPLVDFCISGKTRGQKPNFVILADDMGWDLGANWAETKDTANLDMASE  
 GMRFVDFHAAASTCSPSRASLLTGRLGLRNGVTRNFAVTSVGGPLNETTLAEVLQQAGYVTGIIIGKWHL  
 GHHGSYHPNFRGFDYFIPYSHDMGCTDTPGYNHPPCPACPDGSPRNLQRDCYTDVALPLYENLNIV  
 EQPVNLSLAQKYAEKATQFIQRASTSGRPFLLYVALAHMHVPLPVTQLPAAPRGRSLYAGLWEMDSL  
 VQIKDKVDHTVKENTFLWFTGDNWPWAQKCELAGSVGPFTFGWQTRQGGSPAKQTTWEGGHRVPALAYWP  
 GRVNVNVTSTALLSVLDIFPTVVALAQASLPQRRFDGVDVSEVLFGRSQPGRVLFHPNSGAAGEFGAL  
 QTVRLERYKAFYITGGARACDGTGPELQHKFPLIFNLEDDTAEAVPLERGGAEYQAVLPEVRKVLADVL  
 QDIANDNISSADYTDPSVTPCCNPYQIACRCQAA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6012\\_b02.zip](https://cdn.origene.com/chromatograms/mk6012_b02.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001267727

**ORF Size:** 1575 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\\_001267727.2](#)

**RefSeq Size:** 2614 bp

**RefSeq ORF:** 1578 bp

**Locus ID:** 22901

**UniProt ID:** [Q96EG1](#)

**Cytogenetics:** 17q24.2

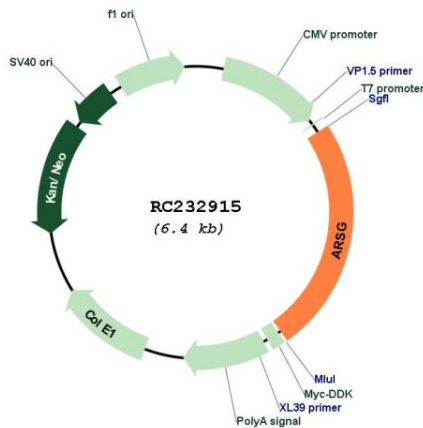
**Protein Families:** Druggable Genome

**Protein Pathways:** Lysosome

**MW:** 57.1 kDa

**Gene Summary:** The protein encoded by this gene belongs to the sulfatase enzyme family. Sulfatases hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules. This protein displays arylsulfatase activity at acidic pH, as is typical of lysosomal sulfatases, and has been shown to localize in the lysosomes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2012]

**Product images:**



Circular map for RC232915