

## Product datasheet for **RG215725**

### Arylsulfatase J (ARSJ) (NM\_024590) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arylsulfatase J (ARSJ) (NM_024590) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arylsulfatase J
Synonyms:	ASJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG215725 representing NM\_024590  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCAGGGGCTGTGCGGGGCATCCGCCTCCGCCTTCTCCACAGGCCTGTGTCTGTCTGAAAGA  
 TGCTAGCAATGGGGCGCTGGCAGGATTCTGGATCCTCTGCCTCCTCACTTATGGTTACCTGTCTGGGG  
 CCAGGCCTTAGAAGAGGAGGAAGAAGGGCCCTTACTAGCTCAAGCTGGAGAGAACTAGAGCCAGCACA  
 ACTTCCACCTCCCAGCCCATCTCATTTTCATCCTAGCGGATGATCAGGGATTTAGAGATGTGGTTACC  
 ACGGATCTGAGATTAACACCTACTCTTGACAAGCTCGCTGCCGAAGGAGTTAACTGGAGAACTACTA  
 TGTCCAGCCTATTTGCACACCATCCAGGAGTCAGTTTATTACTGGAAAGTATCAGATACACACCGGACTT  
 CAACATTCTATCATAAGACCTACCCAACCAACTGTTTACCTCTGGACAATGCCACCTACCTCAGAAAC  
 TGAAGGAGTTGGATATCAACGCATATGGTCGAAAAATGGCACTTGGGTTTTTACAGAAAAGAATGCAT  
 GCCCACCAGAAGAGGATTTGATACCTTTTTGGTTCCCTTTTGGGAAGTGGGATTACTATACACTAC  
 AAATGTGACAGTCTGGGATGTGTGGCTATGACTTGTATGAAAACGACAATGCTGCCTGGGACTATGACA  
 ATGGCATATACTCCACACAGATGTACACTCAGAGAGTACAGCAAATCTTAGCTTCCCATAAACCCACAAA  
 GCCTATATTTTTATATTTGCCTATCAAGCTGTTCACTACCCTGCAAGCTCCTGGCAGGTATTTGAA  
 CACTACCGATCCATTATCAACATAAACAGGAGGAGATATGCTGCCATGCTTTCCTGCTTAGATGAAGCA  
 TCAACAACGTGACATTGGCTCTAAAGACTTATGGTTTCTATAACAACAGCATTATCATTTACTCTCAGA  
 TAATGGTGGCCAGCCTACGGCAGGAGGAGTAACTGGCCTCTCAGAGGTAGCAAAGGAACATATTGGAA  
 GGAGGGATCCGGGCTGTAGGCTTTGTGCATAGCCCACTTCTGAAAAACAAGGGAACAGTGTGAAGAAC  
 TTGTGCACATCACTGACTGGTACCCCACTCTCATTTCCTGACTGAAGGACAGATTGATGAGGACATTCA  
 ACTAGATGGCTATGATATCTGGGAGACCATAAGTGAGGGTCTTCGCTCACCCCGAGTAGATATTTGAT  
 AACATTGACCCCATATACACCAAGGCAAAAAATGGCTCCTGGGCAGCAGGCTATGGGATCTGGAACACTG  
 CAATCCAGTCAGCCATCAGAGTGCAGCACTGGAATTTGCTTACAGGAAATCCTGGCTACAGCGACTGGGT  
 CCCCCCTCAGTCTTTCAGCAACCTGGGACCGAACCCTGGCACAATGAACGGATCACCTTGTCAACTGGC  
 AAAAGTGTATGGCTTTTCAACATCACAGCCGACCCATATGAGAGGGTGGACCTATCTAACAGGTATCCAG  
 GAATCGTGAAGAAGCTCTACGGAGGCTCTCACAGTTCACAAAACTGCAGTGCCGGTCAAGTATCCCC  
 CAAAGACCCAGAAGTAAACCCTAGGCTCAATGGAGGGTCTGGGACCATGGTATAAAGAGGAAACCAAG  
 AAAAAGAAGCCAAGCAAAAAATCAGGCTGAGAAAAAGCAAAAGAAAAGCAAAAAAAGAAGAAGAACAGC  
 AGAAAGCAGTCTCAGGTTCAACTTGCCATTGAGGTTACTTGTGGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215725 representing NM\_024590  
 Red=Cloning site Green=Tags(s)

MAPRGCAGHPPPPSPQACVCPGKMLAMGALAGFWILCLLTYGYLSWGQALEEEEEGALLAQAGEKLEPST  
 TSTSQPHLIFILADDQGFQFRDVGYPHSEIKTPTLDKLAEGVKLENYVQPICTPSRSQFITGKYQIHTGL  
 QHSIIRPTQPNCPLPLDNATLPQKLKEVGYSTHVMGKWHLGFYRKECMPTRRGFDFFGSLGSGDYTHY  
 KCDSPGMCYDL YENDNAAWDYDNGIYSTQMYTQRVQILASHNPTKPIFLYIAYQAVHSPLQAPGRYFE  
 HYRSIINRRRYAAML SCLDEAINNVTALAKTYGFYNNSSIIYSSDNGGQPTAGGSNWPLRSGKTYWE  
 GGIRAVGFVHSPLLKNGKTVCKELVHITDWPYTLISLAEGQIDEDIQLDGYDIWETISEGLRSPRVILH  
 NIDPIYTKAKNGSWAAGYIWNIAIQSAIRVQHWKLLTGNPGYSDWVPPQSFNLGPNRWHNERITLSTG  
 KSVWLFNITADPYERVVLSNRYPGIVKLLRRLSQFNKTAVPVRYPPKPRSNPRLNGVWGPWYKEETK  
 KKKPSKNQAEKKQKSKKKKKKQKAVSGSTCHSGVTCTG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_024590

**ORF Size:** 1797 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\\_024590.4](#)

**RefSeq Size:** 4689 bp

**RefSeq ORF:** 1800 bp

**Locus ID:** 79642

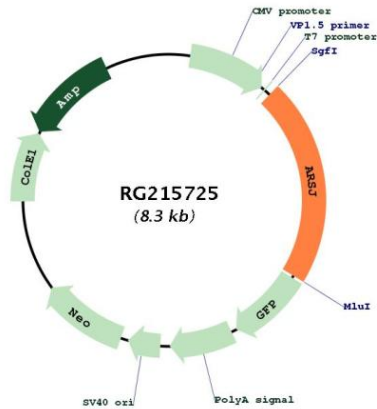
**UniProt ID:** [Q5FYB0](#)

**Cytogenetics:** 4q26

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** Sulfatases (EC 3.1.5.6), such as ARSJ, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules (Sardiello et al., 2005 [PubMed 16174644]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG215725