

## Product datasheet for **RG232996**

### ARSF (NM\_001201538) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARSF (NM_001201538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARSF
Synonyms:	ASF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG232996 representing NM\_001201538  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCCAGGAGACCCTTGGTCTTCATGTCTTTGGTGTGTGCACTCTTGAACACATGCCAGGCACACA  
 GGGTGCATGACGACAAGCCTAATATTGTCTAATCATGGTTGATGACCTGGGTATTGGAGATCTGGGCTG  
 CTACGGCAATGACACCATGAGGACGCCTCACATCGACCGCCTTCCAGGGAAGGCGTGCGACTGACTCAG  
 CACATCTCTGCCGCTCCCTCTGCAGCCCAAGCCGGTCCGCGTTCTTGACGGGAAGATACCCCATCCGAT  
 CAGGTATGGTTTCTAGTGGTAATAGACGTGTCAATCAAAAATCTTGACAGTCCCCGAGGCCTCCCTTTAA  
 TGAGACAACACTTGCAGCCTTGTAAAGAAGCAAGGATACAGCACGGGGCTTATAGGCAATGGCACCAA  
 GGCTTGAAGTGCAGTCCCGAAGTGACCAGTGCCACCATCCATATAATTATGGGTTTACTACTACTATG  
 GCATGCCGTTCACTCTCGTTGACAGCTGTGGCCGGACCCCTCTCGTAACACGGAATTAGCCTTTGAGAG  
 TCAGCTCTGGCTCTGTGTGACAGTAGTTGCCATTGCCATCTCACCTAACCTTTGGGAAGCTGAGCGGC  
 TGGGTCTCTGTTCCCTGGCTCCTGATCTTCTCCATGATTCTGTTATTTTCTCTTGGGCTATGCTTGGT  
 TCTCCAGCCACACGTCCCTTTATACTGGGACTGCCTCCTCATGCGGGGACAGGATACCGGAGCAGCC  
 CATGAAGGCTGAACGAGCTGGATCCATTATGGTGAAGGAAGCATTCTCTTTTGAAGAGGCACAGTAAG  
 GAAACTTCTCTCTTTTCTCTTTCTTACGTGCACACACCTCTCCCACCACGGACGATTTCACTG  
 GCACCAGCAAGCATGGCTTGTATGGGGATAATGTGGAAGAGATGGACTCCATGGTGGGCAAGATTCTTGA  
 TGCTATCGATGATTTTGGCCTAAGGAACAACACCTTGTCTACTTTACATCAGATCACGGAGGGCATTG  
 GAAGTAGGCGAGGGCATGCCAACTTGGTGGATGGAATGGAATATAAAAGTGGAAAAGGCATGGGGG  
 GCTGGGAAGGTGGAATCCGCGTCCAGGAATTGTCGATGGCCTGGAAAGGTACCAGCTGGACGGTTGAT  
 TAAGGAACCTACAAGTTTAAATGGATATTTACCAACTGTCGCATCAGTGTGAGGGAAGTCTCCCTCAG  
 GACAGGGTCATTGACGGCCGAGACCTCATGCCCTTGTGTCAGGGCAACGTCAGGCACTCGGAGCATGAAT  
 TTCTTTTCCACTACTGTGGCTCTACCTGCACGCCGTGCGGTGGATCCCCAAGGACGACAGTGGTCACT  
 TTGGAAGGCTCACTATGTGACCCCGGATTCCAGCCACCAGCTTCTGGTGGCTGCTATGTCACCTCATT  
 TGCAGATGTTTCGGAGAACAGGTTACCTACCACAACCCCTCTGCTCTTCGATCTCTCCAGGGACCCCT  
 CAGAGTCCACACCCCTGACACCTGCCACAGAGCCCTCCATGATTTTGTGATTAAGGTTGGCCAAACGC  
 CCTGAAGGAACACCAGGAAACCATCGTGCCTGTGACCTACCAACTCTCAGAACTGAATCAGGGCAGGACG  
 TGGCTGAAGCCTTGTGTGGGGTGTCCCATTTGTCTGTGTGACAAGGAAGAGGAGTCTCTCAGCCTC  
 GGGTCTTAACGAGAAGAGA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG232996 representing NM\_001201538  
 Red=Cloning site Green=Tags(s)

MRPRRPLVFMSLVCALLNNTCAHRVHDDKPNIVLIMVDDLIGIDLGCYGNDMRTPHIDRLAREGVRLTQ  
 HISAASLCSRSRSAFLTGRYPISGMVSSGNRRVIQNLAVPAGLPLNETTLAALLKKQGYSTGLIGKWHQ  
 GLNCDRSRSDQCHHPYNYGFYYYGMPFTLVDSWPDPSRNTLAFESQLWLCVQLVAIAILTLTFGKLSG  
 WVSVPWLLIFSMILFIFLLGYAWFSSHTSPLYWDCLLMRGHEITEQPMKAERAGSIMVKEAISFLERHSK  
 ETFLFFSFLHVHTPLPTDDFTGTSKHGLYGDNVEEMDSMVGKILDAIDDFGLRNNTLVYFTSDHGGHL  
 EARRGHAQLGGWNGIYKGGKMGWEGGIRVPGIVRWPGKVPAGRLIKEPTSLMDILPTVASVSGGSLPQ  
 DRVIDGRDLMPLLQGNVRHSEHEFLFHYCGSYLHAVRWIPKDDSGSVWKAHYVTPVFPQPASGGCYVTSL  
 CRCFGEQVYHNPPLLFDLSRDPSESTPLTPATEPLHDFVIKKVANALKEHQETIVPVTYQLSELNQRT  
 WLKPCCGVFPFLCDKKEEVSQPRGPNEKR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<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_001201538.1</a> , <a href="#">NP_001188467.1</a>
<b>RefSeq Size:</b>	2082 bp
<b>RefSeq ORF:</b>	1773 bp
<b>Locus ID:</b>	416
<b>UniProt ID:</b>	<a href="#">P54793</a>
<b>Cytogenetics:</b>	Xp22.33
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Gene Summary:</b>	This gene is a member of the sulfatase family, and more specifically, the arylsulfatase subfamily. Members of the subfamily share similarity in sequence and splice sites, and are clustered together on chromosome X, suggesting that they are derived from recent gene duplication events. Sulfatases are essential for the correct composition of bone and cartilage matrix. The activity of this protein, unlike that of arylsulfatase E, is not inhibited by warfarin. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2011]