

## Product datasheet for **SC117626**

### ARSF (NM\_004042) Human Untagged Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | ARSF (NM_004042) Human Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | ARSF                                  |
| Synonyms:                 | ASF                                   |
| Mammalian Cell Selection: | None                                  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004042, the custom clone sequence may differ by one or more nucleotides

```
ATGAGGCCAGGAGACCCTTGGTCTTCATGTCTTTGGTGTGTGCACTCTTGAACACATGCCAGGCACACA
GGGTGCATGACGACAAGCCTAATATTGTCCTAATCATGGTTGATGACCTGGGTATTGGAGATCTGGGCTG
CTACGGCAATGACACCATGAGGACGCCCTCACATCGACCGCCTTGCCAGGGAAGGCGTGCACTGACTCAG
CACATCTCTGCCCTCCCTCTGCAGCCCAAGCCGGTCCGCGTTCTTGACGGGAAGATACCCCATCCGAT
CAGGTATGGTTTCTAGTGGTAATAGACGTGTCATCCAAAATCTTGCACTCCCGCAGGCCTCCCTCTTAA
TGAGACAACACTTGCAGCCTTGCTAAAGAAGCAAGGATACAGCACGGGGCTTATAGGCAAAATGGCACCAA
GGCTTGAAGTGCAGCTCCCGAAGTGACCAGTGCCACCATCCATATAAATTATGGGTTTACTACTACTATG
GCATGCCGTTCACTCTCGTTGACAGCTGCTGGCCGACCCTCTCGTAACACGGAATTAGCCTTTGAGAG
TCAGCTCTGGCTCTGTGTGACGCTAGTTGCCATTGCCATCCTCACCTAACCTTTGGGAAGCTGAGCGGC
TGGGTCTCTGTTCCCTGGCTCCTGATCTTCTCCATGATTCTGTTATTTTCTCTTGGGCTATGCTTGGT
TCTCCAGCCACAGTCCCTTTATACTGGGACTGCCTCCTCATGCGGGGGCAGAGATCACGGAGCAGCC
CATGAAGGCTGAACGAGCTGGATCCATTATGGTGAAGGAAGCGATTTCTTTTTAGAAAAGGCACAGTAAG
GAAACTTTCTTCTCTTTTTCTCTTTCTTCTCACGTGCACACACCTCTCCCCACCAGGACGATTTCACTG
GCACCAGCAAGCATGGCTTGATGGGGATAATGTGGAAGAGATGGACTCCATGGTGGGCAAGATTCTTGA
TGCTATCGATGATTTGGCCTAAGGAACAACACCTTGTCTACTTTACATCAGATCACGGAGGGCATTG
GAAGCTAGGCGAGGGCATGCCAACTTGGTGGATGGAATGGAATATACAAAGGTGAAAAGGCATGGGGG
GCTGGGAAGGTGGAATCCGCGTCCAGGAATTGTCGATGGCTGGAAAGGTACCAGCTGGACGGTTGAT
TAAGAACCTACAAGTTAATGGATATTTACCAACTGTCGCATCAGTGTGAGGAGGAAGTCTCCCTCAG
CACAGGTCATTGACGGCCGAGACCTCATGCCCTTGTCTGCAGGGCAACGTGAGGCATCGGAGCATGAAT
TTCTTTTCCACTACTGTGGCTCCTACCTGCACGCGTGGGTTGGATCCCCAAGGACGACAGTGGGTCAAT
TTGGAAGGCTCACTATGTGACCCCGGATTCCAGCCACCAGCTTCTGGTGGCTGCTATGTACCTCATT
TGCAGATGTTTCGGAGAACAGGTTACCTACCACAACCCCTCTGCTTCTCGATCTCTCCAGGGACCCCT
CAGAGTCCACACCCCTGACACCTGCCACAGAGCCCTCCATGATTTTGTGATTAAGGAGGTGGCCAAACGC
CCTGAAGGAACACCAGGAAACCATCGTGCCTGTGACCTACCAACTCTCAGAACTGAATCAGGGCAGGACG
TGGCTGAAGCCTTGTGTGGGTGTTCCCATTTTGTCTGTGTGACAAGGAAGAGGAGTCTCTCAGCCTC
GGGTCTTAACGAGAAGAGATAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004042 unedited  
GCACGAGGCTTTGCAGAACAGCCTGTCTGTTCTGCTCCTAGACATTAGAGAGATAATACG  
GCTGATAGACAACAAGAAGGTATTCCAAGCTGCACAATGAGGCCAGGAGACCCTTGGTC  
TTCATGTCTTTGGTGTGTGCACTCTTGAACACATGCCAGGCACACAGGGTGCATGACGAC  
AAGCCTAATATTGCTAATCATGGTTGATGACCTGGGTATTGGAGATTTGGGCTGCTAC  
GGCAATGACACCATGAGGACGCCCTCACATCGACCGCCTTGCCAGGGAAGGCGTGCGACTG  
ACTCAGCACATCTCTGCCGCTCCCTCTGCAGCCCAAGCCGGTCCGCGTTCTTGACGGGA  
AGATACCCCATCCGATCAGGTATGGTTTCTAGTGGTAATAGACGTGTCATCCAAAATCTT  
GCAGTCCCGCAGGCTCCCTCTTAATGAGACAACACTTGACGCTTGTAAAGAAGCAA  
GGATACAGCACGGNGCTTATAGGCAAAATGGCACCAAGGCTTGAAGTGGGACTCCCGAAGT  
GACCAGTGCCACCATCCATATAATTATGGGTTTACTACTACTATGGCATGCCG

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_004042

**Insert Size:** 2100 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <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_004042.3</a> , <a href="#">NP_004033.2</a>   |
| <b>RefSeq Size:</b>           | 2012 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>Domains:</b>               | Sulfatase   |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein, Transmembrane   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (1) represents the shortest variant. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |