

## Product datasheet for **SC314090**

### ARL6IP2 (ATL2) (NM\_022374) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids

**Tag:** Tag Free

**Symbol:** ARL6IP2

**Synonyms:** aip-2; ARL3IP2; ARL6IP2; atlastin2

**Vector:** pCMV6 series

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_022374, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAGGGGACGAGGCAGCGGAGGGCAGCAACCGCACCAGGGGCTGTGGCGCCGG
CGACGGACCAAGCGACCCCAAGCGCGCGTTAACCACGTCTCGTCCACGACCTCCCTAGGT
GAGAATTATGAAGATGATGACCTAGTAAATTCTGATGAGGTTATGAAGAAACCATGTCCA
GTACAGATTGTTCTTGTCTCATGAAGATGACCATAACTTTGAACCTGATGAAGAAGCTTTG
GAGCAGATATTGCTACAGGAGCACATACGAGATCTTAACATAGTAGTGGTATCTGTGGCA
GGAGCTTTTCGTAAGGGAAGTCATTTCTACTGGACTTCATGCTTAGATACATGTATAAC
AAGGATTCTCAAAGTTGGATTGGTGGAAACAATGAACCATTGACAGGCTTTACATGGCGA
GGTGGCTGTGAAAGAGAAACAACAGGCATACAAGTTTGAATGAAGTATTTGTGATTGAC
AGACCTAATGGAATAAGTTGCTGTGCTGCTTATGGATACCCAGGGTGCCTTTGATAGC
CAGTCAACTATCAAAGACTGTGCAACGGTGTGCTCTGAGCACTATGACTAGCTCTGTC
CAGGTATATAATCTGTCTCAGAATATTCAAGAAGATGATCTTCAACATTGCAATTATTT
ACAGAGTATGGAAGACTTGCATGGAAGAAATCTACCAGAAACCATTTTCAGACATTAATG
TTTTTGATTGAGATTGGAGCTATCCTTATGAACATTATATGGTTTGAAGGTGGAAG
CAATTTCTTGAAAAGAGATTACAGGTAAAACAAAATCAACATGAAGAGCTTCAGAATGTA
AGGAAGCACATACACAATTGTTTCTCAAATCTTGGTTGCTTCTTTTGCACATCCTGGT
CTTAAAGTTGCACTAATCCTAGTTTTGATGGGAGATTGAAAGATATTGATGAAGACTTT
AAACGAGAGCTTCGAAATCTGGTTCATTGCTGCTTGCCCTGAAAATTTGGTAGAAAAA
GAGATAAGTGGATCTAAAGTCACTTGTAGAGATCTTGTAGAATATTTTAAGGCTTACATC
AAAATCTATCAAGGAGAAGAACTTCCACATCCAAAGTCCATGCTTCAGGCAACAGCTGAA
GCTAATAATCTTGTGTCAGTAGCAGGAGCAAGAGATACCTATTGTAAGATGGAACAG
GTATGTGGAGGGACAAGCCTTACATTGCACCTTCAGATCTGGAGCGAAAACACTTGGAT
CTCAAGGAAGTGGCGATAAAACAATTCGTTTCAGTAAAAAAGATGGGTGGAGATGAGTTC
TGCCGTCGTTATCAGGACCAGCTTGAAGCTGAAATTGAAGAAACCTATGCAATTTTATA
AAGCACAATGATGGCAAAAATATCTTCTATGCTGCTCGTACCCCTGCCACACTGTTTGGC
GTCATGTTTGTATGTATATAATCTCAGGACTGACTGGCTTCATTGGCCTAAACTCTATA
GCTGCTTGTGTAACTTGTGTCATGGAGTTAGCACTGATATTTCTTTGTACTTGGGCATAT
GTTAAATACTCTGGGGAGTTTCAGAGAAATTGGAACAGTGATTGATCAGATTGCTGAAACA
CTATGGGAACAGGTGTTTTCCAACTGTTTGAAGTTACTAGACGTCGAATGGTTCACCGT
GCTCTTTCATCAGCACAGCGACAGAGACTGTCATCCAACAATAACAAGAAGAAAAAT
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**Restriction Sites:** Please inquire



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| <b>ACCN:</b>                  | NM_022374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <a href="#">NM_022374.1</a> , <a href="#">NP_071769.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>           | 2279 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq ORF:</b>            | 1740 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 64225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>            | <a href="#">Q8NHH9</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 2p22.2-p22.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Gene Summary:**

GTPase tethering membranes through formation of trans-homooligomers and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis (PubMed:18270207, PubMed:19665976, PubMed:27619977). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes isoform 1. 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.