

Product datasheet for **SC326086**

ARL6IP2 (ATL2) (NM_001135673) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ARL6IP2
Synonyms:	aip-2; ARL3IP2; ARL6IP2; atlastin2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC326086 representing NM_001135673.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGGGGACGAGGCAGCGCAGGGCAGCAACCGCACCAGGGGCTGTGGCGCCGCGCAGGGACC
AGCGACCCAAGCGCCGCGTTAACCACGTCTCGTCCAGCAGCTCCCTAGGTGAGAATTATGAAGATGAT
GACCTAGTAAATCTGATGAGGTTATGAAGAAACCATGTCCAGTACAGATTGTTCTTGCTCATGAAGAT
GACCATAACTTTGAACTTGATGAAGAAGCTTTGGAGCAGATATTGCTACAGGAGCACATACGAGATCTT
AACATAGTAGTGGTATCTGTGCGAGGAGCTTTTCGTAAGGGAAGTCATTTCTACTGGACTTCATGCTT
AGATACATGTATAACAAGGATTCTCAAAGTTGGATTGGTGGAAACAATGAACCATTGACAGGCTTTACA
TGGCGAGGTGGCTGTGAAGAGAAACAACAGGCATACAAGTTTGGAAATGAAGTATTTGTGATTGACAGA
CCTAATGGAATAAAGTTGCTGTGCTGCTTATGGATACCCAGGGTGCCTTTGATAGCCAGTCAACTATC
AAAGACTGTCAACGGTGTGCTGCTGAGCACTATGACTAGCTCTGTCCAGGTATATAATCTGTCTCAG
AATATTTCAAGAAGATGATCTTCAACATTTGCAATTTTACAGAGTATGAAGACTTGCATGGAAGAA
ATCTACCAGAAACCATTTAGACATTAATGTTTTGATTGAGATTGGAGCTATCCTTATGAACATTCA
TATGGTTTGAAGGTGGAAGCAATTTCTGAAAAGAGATTACAGGTAAACAAAATCAACATGAAGAG
CTTCAGAAATGAAGGAAGCACATACACAATTGTTCTCAAATCTTGGTTGCTTCCTTTGCCACATCCT
GGTCTTAAAGTTGCAACTAATCCTAGTTTGTATGGGAGATTGAAAGATATTGATGAAGACTTTAAACGA
GAGCTTCGAAATCTGGTTCCATTGCTGCTTGCCCTGAAAATTTGGTAGAAAAAGAGATAAGTGGATCT
AAAGTCACTTGTAGAGATCTTGTAGAATATTTAAGGCTTACATCAAAATCTATCAAGGAGAAGAACTT
CCACATCCAAAGTCCATGCTTCAGGCAACAGCTGAAGCTAATAATCTTGTGCTGCAAGTACAGGAGCAAGA
GATACCTATTGTAAAGTATGGAACAGGTATGTGGAGGGGACAAGCCTTACATTGCACCTTCAGATCTG
GAGCGAAAACACTTGGATCTCAAGGAAGTGGCGATAAAACAATTTGTTTCAAGTAAAAAGATGGGTGGA
GATGAGTTCTGCCGTCGTTATCAGGACCAGCTTGAAGCTGAAATTGAAGAAACCTATGCAAAATTTATA
AAGCAATGATGGCAAAATATCTTCTATGCTGCTCGTACCCAGCCACACTGTTTGCGGTGATGTTT
GCTATGTATATAATCTCAGGACTGACTGGCTTCATTGGCTTAACTCTATAGCTGTCTGTGTAACTT
GTCATGGGGTTAGCACTGATATTTCTTTGTACTTGGGCATATGTTAAATCTCTGGGGAGTTTCAGAGAA
ATTGGAACAGTGATTGATCAGATTGCTGAAACACTATGGGAACAGGTATTGAAGCCCTGGGTGATAAT
TTGATGGAGGAAAACATAAGGCAGTCTGTAAACAACTCTATCAAAGCAGGCCTGACTGACCAGGTGCTC
CATCATGCCAGATTAAGACAGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001135673

Insert Size:

1752 bp

OTI Disclaimer:

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).

OTI Annotation:

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.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001135673.2</u>
RefSeq Size:	3837 bp
RefSeq ORF:	1752 bp
Locus ID:	64225
UniProt ID:	<u>Q8NHH9</u>
Cytogenetics:	2p22.2-p22.1
Protein Families:	Transmembrane
MW:	66.2 kDa
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 (2) uses an alternate splice acceptor site in the 3' terminal exon, compared to variant 1. The encoded isoform (2) is longer and has a distinct C-terminus, compared to 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.