

Product datasheet for **MC219299**

Atl2 (NM_019717) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atl2 (NM_019717) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atl2
Synonyms:	2010110I21Rik; AA407293; Aip-2; Arl6ip2; AV334690
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219299 representing NM_019717
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGGGACGAGGCAGCGCGAAGGCAGCAGCCGAGCAGGGCTGAGGCCCGCGGACAGACCA
 GCGACTCGAGCGTCGGAGTTAACCACGTCTCGTCTACGACCTCCCTAGGTGAGGATTATGAAGATGATGA
 CCTAGTAAACTCAGATGAGGTTATGAAGAAACCATGCCAGTACAGATTGTTCTCGCCATGAAGATGAC
 CATAACTTTGAGCTTGATGAAGAGGCTTTGGAGCAGATCCTGCTGCAGGAGCACATACGGGATCTTAACA
 TAGTCGTGGTGTCTGTGGCAGGAGCTTTCCGTAAGGGAAATCATTTCTCCTGGACTTCATGCTTAGATA
 TATGTATAACAAGGATTCTCAAAGCTGGATTGGTGGAAACAATGAACCCTTGACTGGCTTACGTGGCGA
 GGTGGTTGCGAAAGAGAAACAACAGGCATAACAAGTTTGAATGAAGTGTGATTGACAGACCTAATG
 GAACAAAAGTGGCTGTGCTGCTAATGGATACCCAGGGTGCCTTTGATAGCCAGTCAACCATAAAGACTG
 TGGCAGAGTGTGCTCTGAGCACTATGACCAGCTCTGTGCAGGTATATAATTTGTCTCAGAATATTCAA
 GAAGATGATCTTCAACATCTACAGTTATTTACAGAGTATGGAAGACTTGCAATGGAAGAGATCTACCAGA
 AGCCATTTTCAGACGCTAATGTTTTGATTTCGAGATTGGAGTTATCCTTATGAGCACTCATATGGCTTGG
 AAGTGGGAAGCAGTTCCTTGAGAAGAGATTACAGGTGAAGCAGAACAGCAGGAGCTGCAGAACGTC
 AGGAAGCACATCCACAACCTGCTTCTCAAACCTGGGCTGCTTCTCCTCCCGCACCCCGGCCCTCAAAGTCG
 CCACCAACCCTAGCTTTGATGGACGACTGAAAGATATCGATGAAGACTTTAAACGGGAGCTTCGAAATCT
 GGTTCCATTGCTGCTTCTGCTGAAAATCTTGTGAGAAAAGAGATAAGTGGATCGAAAGTCACTTGTAGA
 GATCTTGTAGAGTATTTAAGGCATACATTAATAATATCAAGGAGAGGAACTACCACACCCAAAGTCTA
 TGCTTCAGGCAACAGCTGAGGCTAATAACCTGGCAGCAGTAGCAGGAGCAAGAGATGCTATTGTAAGG
 TATGGAGCAGGTATGCGGTGGTGATAAGCCGTACATTGCACCTTCAGATTTGGAGCGAAAACACCTGGAT
 CTCAAGGAAGTGGCGCTCAAACAGTTTCGTTCTGTGAAAAAATGGGTGGAGATGAATTCGCCCGCTT
 ATCAGGACCAGCTTGAAGCTGAAATCGAAGAAACCTATGCAAAATTTATAAAGCACAATGATGGCAAAAA
 TATCTTCTATGCTGCTCGCACCCCTGCCACACTGTTTGCAGTCATGTTTGTCTATGTATATCATCTCAGGA
 CTGACTGGCTTCAATGGCTAAACTCTATAGCTGTCTTATGCAACCTCGTCATGGGGCTAGCACTGACGT
 CCCTTTGACTTGGGCATATGTTAAGTACTCTGGGGAGTTCAGAGAAATCGGAACAATGATTGATCAGAT
 TGCTGAAACACTGTGGGAACAGGTATTGAAGCCCTGGGTGATAATTTGATGGAGGAAAACATAAGGCAG
 TCTGTAACAACTCTATCAAAGCAGGCCTGACTGACCAGGTGTCTCATCATGCCGATTAAGACAGACT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_019717
Insert Size: 1752 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_019717.3](#), [NP_062691.3](#)

RefSeq Size: 3639 bp

RefSeq ORF: 1752 bp

Locus ID: 56298

UniProt ID: [Q6PA06](#)

Cytogenetics: 17 E3

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.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) encodes the longest isoform (1).