

Product datasheet for **MC227566**

Atl2 (NM_001286647) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atl2 (NM_001286647) 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)
Fully Sequenced ORF: >MC227566 representing NM_001286647
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATACCCAGGGTGCCTTTGATAGCCAGTCAACCATTAAAGACTGTGCGACAGTGTGGCTCTGAGCA
 CTATGACCAGCTCTGTGCAGGTATATAATTTGTCTCAGAATATTCAGAAGATGATCTTCAACATCTACA
 GTTATTTACAGAGTATGGAAGACTTGAATGGAAGAGATCTACCAGAAGCCATTTAGACGCTAATGTTT
 TTGATTCGAGATTGGAGTTATCCTTATGAGCACTCATATGGCTTGAAGGTGGGAAGCAGTTCCTTGAGA
 AGAGATTACAGGTGAAGCAGAACCAGCAGGAGCTGCAGAACGTCAGGAAGCACATCCACAACCTGCTT
 CTCAAACCTGGGCTGCTTCTCCTCCCGCACCCCGGCCTCAAAGTCGCCACCAACCCTAGCTTTGATGGA
 CGACTGAAAGATATCGATGAAGACTTTAAACGGGAGCTTCGAAATCTGGTTCCATTGCTGCTTGCTCCTG
 AAAATCTTGTGGAAAGAGATAAGTGGATCGAAAGTCACTTGTAGAGATCTTGTAGAGTATTTAAGGC
 ATACATTAATAATATCAAGGAGAGGAACACCACACCCAAAGTCTATGCTTCAGGCAACAGCTGAGGCT
 AATAACCTGGCAGCAGTAGCAGGAGCAAGAGATGTCTATTGTAAGATATGGAGCAGGTATGCGGTGGT
 ATAAGCCGTACATTGCACCTTCAAGTTTGGAGCGAAAACCTGGATCTCAAGGAAGTGGCGCTCAAACA
 GTTTCGTTCTGTGAAAAAATGGGTGGAGATGAATTCGCCGCCGTTATCAGGACCAGCTGAAGCTGAA
 ATCGAAGAAACCTATGCAAATTTATAAAGCACAAATGATGGCAAAAATATCTTCTATGCTGCTCGCACC
 CTGCCACACTGTTTGCAGTCATGTTTGGCTATGTATATCATCTCAGGACTGACTGGCTTCATTGGCCATAA
 CTCTATAGCTGTCTTATGCAACCTCGTATGGGCTAGCACTGACGTCCCTTTGACTTGGGCATATGTT
 AAGTACTCTGGGAGTTCAGAGAAATCGGAACAATGATTGATCAGATTGCTGAAACACTGTGGGAACAGA
 GGAGTCCAGGAAGGTGTTTGCACAACTGTTTGAAGTCAGTAGACGTCGAAGGGTCCACCGTCTCTCTC
 GTCAGCACAGCGACAGAGACTGTCATCCAACAATAACAAGAAGAGAAAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001286647
Insert Size:	1242 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001286647.1, NP_001273576.1</u>
RefSeq Size:	3924 bp
RefSeq ORF:	1242 bp
Locus ID:	56298
Cytogenetics:	17 E3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has multiple differences, compared to variant 1. These differences result in an additional internal 5' UTR segment, translation initiation at a downstream start codon, and an alternate 3' coding region, compared to variant 1. The encoded protein (isoform 3) has a shorter N-terminus and a distinct C-terminus, compared to isoform 1.</p>