

Product datasheet for **RN213300**

Atl1 (NM_001009831) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atl1 (NM_001009831) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atl1
Synonyms:	Spg3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN213300 representing NM_001009831
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTAAGAGCCGACGGACAGAAACAGTTGGGGTGGGTTTTTCAGAGAAGTCAAGTGATTGGAGCTCAG
 AAGAGGAGGAGCCGGTGAGAAAGGCAGGACCCGTCCTCAAGTCCTCATCGTCAAAGACGACCATTCCTTTGA
 GTTAGATGAGGCTGCACTGAACCGGATCCTTCTGTCTGAGGCCGTGAGAGACAAGGAAGTGGTTGCCGTG
 TCTGTTGCTGGAGCCTTTAGAAAAGGAAAATCCTTCTGATGGACTTCATGTTACGGTACATGTACAACC
 AGGAATCTGTTGATTGGGTTGGAGATTACAATGAACCATGACTGGATTTTCATGGAGAGGTGGATCTGA
 ACGAGAAACCACAGGAATCCAGATCTGGAGCGAAGTTTTCTCATCAATAAGCTTGATGGTAAAAAGGTT
 GCAGTGTACTGATGGATACTCAGGGAACCTTTGACAGTCAGTCAACTTTGAGAGATTCGCCACAGTAT
 TTGCCCTTAGCACAATGATAAGCTCAATACAGGCTACAACCTTATCCAAAATGTCCAGGAGGACGACCT
 TCAGCATCTCCAGCTTTTCACTGAGTATGGCAGGTTGGCAATGGAAGAAACATTCCTGAAGCCTTTTCAG
 AGTCTGATATTTCTGTTTCGAGACTGGAGTTCCCATACGAATTCATACGGAGCTGATGGTGGCGCCA
 AGTTTTTGAAAAACGCCTCAAGGTCTCAGGGAACCAGCAGAAAGAACTACAGAATGTACAGAAAGCACAT
 CCATTCCTGTTTTACCAACATTTCTGTTTTCTCTACCTCATCTGGCTTAAAAGTAGCTACGAACCCA
 AACTTTGATGGAAAACAAAAGAAATAGATGACGAATTCATCAAAAACCTGAAAATACTGATTCCTGGC
 TCCTTAGTCCCGAGAGCCTAGATATTAAGAGATCAATGGGAATAAAATCACCTGCCGAGGTCTGCTGGA
 GTACTTCAAGGCGTACATAAAGATCTACCAAGGGGAAGAATTGCCACATCCCAAGTCCATGTTACAGGCC
 ACAGCAGAAGCCAACAACCTAGCAGCTGTTGCAACCGCCAAGGACACATAACAAGAAGATGGAGGAGA
 TTTGTGGTGGTGACAAACCATTTTGGCCCCAATGACCTGCAAACCAAGCACCTGCAGTAAAAGAAGA
 CTCTGTGAAGCTGTTCCGAGGTGTAAGAAGATGGGTGGGGGAAGAATTCAGCCGGCGCTACCTACAGCAG
 CTGGAGAGTGAATAGACGAACTCTACATCCAGTACATCAAGCACAATGACAGCAAAAATATCTTCCATG
 CCGCTCGCACCCAGCCACACTGTTGTTGTCTTTATCACGTATGTCATCGCTGGTGTGACTGGATT
 CATTGGTTTGGACATCATAGCTAGCCTGTGCAACATGATCATGGGACTGACACTCATCACGCTGTGCACC
 TGGGCATACATCCGCTACTCTGGGGAGTATCGAGAGCTGGGCGCTGTAATCGACCAGGTAGCTGCAGCTT
 TGTGGGACCAGGGAAGCACAATGAGGCTTTATAAAGCTGTACAGTGCAGCAGCAACCCACAGACACCT
 GTATCAGCAAGCCTTTCTGCACCCAAGTCAGAACCTACTGAGCAACCGGAAAAGAAGAAAATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001009831

Insert Size: 1677 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).

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_001009831.2](#), [NP_001009831.1](#)

RefSeq Size: 2585 bp

RefSeq ORF: 1677 bp

Locus ID: 362750

UniProt ID: [Q6PST4](#)

Cytogenetics: 6q24

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. May also regulate Golgi biogenesis. May regulate axonal development.[UniProtKB/Swiss-Prot Function]