

## Product datasheet for **MG208839**

### Atl1 (NM\_178628) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atl1 (NM_178628) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atl1
Synonyms:	4930435M24Rik; AD-; Adfsp; FS; Fsp1; SP; Spg3; Spg3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208839 representing NM\_178628  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTAAGAGCCGACGGACAGAAACAGTTGGGGTGGGTTTTTCAGAGAAGTCAAGTGACTGGAGCTCAG  
 AAGAGGAGGAGCCAGTGAGAAAGGCAGGGCCTGTCCAGGTCTCATCGTCAAGGACGACCATTCCTTTGA  
 GTTAGACGAGGCTGCGCTGAACCGCATCCTTCTGTCCCAGGCCGTGAGAGACAAGGAGGTGGTTGCTGTG  
 TCTGTTGCTGGAGCCTTTAGAAAAGGAAATCCTTCTGATGGACTTCATGTTGCGGTACATGTACAACC  
 AGGAATCTGTTGATTGGGTTGGAGATTACAATGAACCATTTGACTGGATTTTCATGGAGGGGTGGATCGGA  
 ACGAGAAACCACAGGAATCCAGATATGGAGTGAAGTTTTCTCATCAATAAGCTTGATGGTAAAAAGGTT  
 GCAGTGTACTGATGGATACTCAGGGAACCTTTGACAGTCAGTCAACTTTGAGAGATTCGCCACAGTAT  
 TTGCGCTTAGCACAATGATAAGCTCAATACAGGCTACAACCTGTCCCAGAATGCCAGGAGGATGATCT  
 CCAGCACCTGCAGCTTTTCACTGAGTATGGCAGGTTGGCAATGGAAGAAACATTCCTGAAGCCTTTTCAG  
 AGTCTGATATTTCTGTTGCGAGACTGGAGTTCCCATACGAATTTTCATATGGAGCTGATGGTGGCGCCA  
 AGTTCTTGAAAAACGCCTCAAGGTCTCAGGGAACCAGCATGAAGAGCTGCAAGAAGCTCAGGAAGCAT  
 CCACTCTGCTTCACCAACATTTCTGCTTTCTCTACCTCATCTGGCTTAAAAGTCGCTACCAACCCA  
 AACTTTGATGGGAACTAAAAGAAATAGATGATGAATTCATCAAAAACCTGAAAACTGATTCCATGGC  
 TCCTGAGTCTGAGCGCTAGATATTAAGAGATCAATGGGAATAAAATCACCTGCCGAGGCCTGCTGGA  
 GTACTTCAAGGCATACATAAAGATATACCAAGTGAAGAATTGCCGCATCCCAAGTCCATGTTACAGGCC  
 ACAGCAGAAGCTAACAAATTTAGCAGCTGTTGCAACTGCCAAGGACACATAACAAGAAGATGGAAGAGG  
 TTTGTGGTGGTGATAAACCATTTTTGGCCCTAACGACCTGCAAAGCAAGCACCTGCAGCTAAAAGAAGA  
 ATCTGTGAAGTTATTCAGGCGTGAAGAAGATGGGCGGGGAAGAGTTACGCCGCGTTACCTGCAGCAG  
 CTGGAGAGTGAATAGATGAACTCTACATCCAGTATATTAAGCACAATGCAGCAAAAATATCTTCCATG  
 CTGCTCGAACCCAGCCACACTGTTGTTGTCATCTTTATCACATACGTGATTGCTGGTGTGACTGGATT  
 CATTGGTTGGACATCATAGCTAGCCTGTGCAACATGATCATGGGACTGACGCTTATCACCTCTGCACC  
 TGGGCATATATCCGCTACTCTGGCGAATATCGAGAGCTGGGTGCTGTAATCGACCAGGTAGCTGCAGCTT  
 TGTGGGACCAGGGAAGCACAATGAGGCGTTATACAAGCTTTACAGTGCAGCAGCAACCCACAGACACCT  
 GTGTCACCAAGCTTTCCCTGCACCCAAGTCAGAGCCTACTCAACAACCGAAAAGAAGAAAATT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208839 representing NM\_178628  
 Red=Cloning site Green=Tags(s)

MAKSRRDRNSWGGFSEKSSDWSSEEEEPVRKAGPVQVLIVKDDHSFELDEAALNRILLSQAVRDKEVVAV  
 SVAGAFRKGSFLMDFMLRYMYNQESVDWVGDYNEPLTGF SWRGGSERETTGIQIWSEVFLINKLDGKKV  
 AVLLMDTQGTFDQSSTLRDSATVFALSTMISSIQVYNLSQNVQEDDLQHLQLFTEYGRRLAMEETFLKPFQ  
 SLIFLVRDWSFPYEFYSGADGGAKFLEKRLKVSQNGHEELQNVKHIHSCFTNISCFLLPHPLKQVATNP  
 NFDGKLKEIDDEFIKNLKILIPWLLSPERLDIKEINGNKITCRGLLEYFKAYIKIYQGEELPHPKSMLQA  
 TAEANNLAAVATAKDTYNKMEEVCGGDKPFLAPNDLQSKHLQLKEESVKLFRGVKMGGEF SRRYLQQ  
 LESEIDELYIQYIKHNSKNIFFHAARTPATLFVVIFITYVIAGVTGFIGLDIIASLNCNMIMGLTLITLCT  
 WAYIRYSGEYRELGAVIDQVAALWDQGSTNEALYKLYSAAATHRHLC HQAFPAPKSEPTQQPEKKKI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_178628
<b>ORF Size:</b>	1674 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_178628.5</a> , <a href="#">NP_848743.1</a>
<b>RefSeq Size:</b>	2818 bp
<b>RefSeq ORF:</b>	1677 bp
<b>Locus ID:</b>	73991
<b>UniProt ID:</b>	<a href="#">Q8BH66</a>
<b>Cytogenetics:</b>	12 C2
<b>Gene Summary:</b>	This gene encodes a member of the dynamin family of GTPases. The encoded protein interacts with tubule-shaping proteins of the endoplasmic reticulum. Mutations in the homologous human gene can cause hereditary spastic paraplegia. [provided by RefSeq, Feb 2010]