

## Product datasheet for **MG211756**

### Atp11b (NM\_029570) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp11b (NM_029570) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp11b
Synonyms:	1110019I14Rik; ATPIF; ATPIR; mKIAA0956
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211756 representing NM_029570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCGCTGGGTCCGGCAGCAGCTGGGTTTTGACCCACCACATCAAAGTGACACAAGAACTATTTACA  
TAGCCAACAGGTTTCCTCAGAATGGCCTTTACACACCTCAGAAATTTATAGATAACCGGATCATTTCATC  
TAAGTATACTATATGGAATTTTGTCCAAAAATTTATTTGAACAGTTCAGAAGAGTGGCAAACCTTTTAT  
TTTCTTATTATTTTTGGTTCAGCTTATGATTGATACACCTACCAGTCCAATTACCAGTGGACTCCAT  
TATTCTTTGTGATAACAGTAACTGCCATAAAACAGGGTTATGAAGACTGGTTACGCCATAACTCAGATAA  
TGAAGTAAACGGAGCTCCTGTCTATGTTGTCAGAAGTGGGGGGCTGTAAAAACTCGATCCAAAAACATT  
CGGGTGGGTGATATTGTTTCGTATAGCCAAAGATGAAATTTTTCTGCAGATTTGGTGCTTCTGTCCTCAG  
ATCGACTTGATGGTTCATGTGATGTGACAACTGCTAGTTTGGATGGAGAGACAAACCTAAAGACACATGT  
GTCAGTTCAGAAACAGCAGTATTACAAACAGTTGCCAATTGGACAGTCTCATAGCTGTAATAGAATGC  
CAACAGCCAGAAGCAGATTTATACAGATTTATGGGACGAATGATAATAACTCAACAAATGGAAGAAATTTG  
TAAGACCTCTGGGACCAGAGAGTCTCTTGCTTCGTGGAGCCAGATTAATAAACAAGAAATTTTGG  
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ACTCCACAGAAGGAGAAGTGCCTTTCCTTGGTAGTTTATCCCATCTCAGCAACTCAGCCCATCTCACAGC  
CACTTCTTAGAACCAGTCTGAAAGTAAACTGAGCTAATCAAGAACACGATCTGTTCTTTAAAGCA



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GTCAGTCTTTGCCATACTGTACAGATCAGCAATGTTCAAACCTGACGGCATCGGGGATGGTCCCTGGCAGC  
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TCCTACAAGTACAGAAAAGGCACAGCTTGTGAAGCTCATTCCAGTGTCAAGTGTGGACTCCGTGTGC  
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CCAACCATATCAGCAGGTTGTGGAATGCATCGGATCCATTCTATACCAATGACAGGAGCATCTTGACTCT  
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

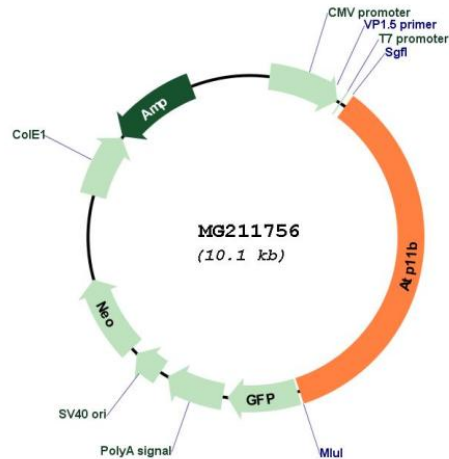
**Protein Sequence:** >MG211756 representing NM\_029570  
 Red=Cloning site Green=Tags(s)

MWRWVRQQLGFDPHPQSDTRTIYIANRFPQNGLYTPQKFIDNRIISSKYTIWNFVPKNLFEEQFRRVANFY  
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 RVGDIVRIAKDEIFPADLVLLSSDRLDGSCHVTTASLDGETNLKTHVSVPETAVLQTVANLDSLIAVIEC  
 QQPEADLYRFMGRMIITQQMEEIVRPLGPESLLLRGARLKNTKEIFGVAVYTGMEKMLNYKSKSQKRS  
 AVEKSMNTFLIIYLIIILISEAIIISTILKYTWQAEKWEDEPWYNQKTEHQRNSSKILRFISDFLAFVLVYN  
 FIIPISLYVTVMQKFLGSFFIGWDLDLYEESDQKAQVNTSDLNEELGQVEYVFTDKTGLTENEMQFR  
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 YRQFTAKEYEDVDRRLFARTALQHREKLADAFQYIEKDLILLGATAVEDRLQDKVREIEALRMAGIK  
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 ALREHEKLFMEVCRNCSAVLCCRMAPLQKAKVIRLIIKISPEKPI TLAVGDGANDVSMIQEAHVIGIGIMGK  
 EGRQAARNSDYAIAARFKFLSKLLFVHGFFYYIRIATLVQYFFYKNCVCFITPQFLYQFYCLFSQQTLYDSV  
 YLTLYNICFTSLPVLIIYSLVEQIHDPHVLQSKPTLYRDISKNGLLSIKAFLYWTVLGFSAHAIFFFGSYF  
 LVGKDTSLGNGQMFGNWFGLTVFTVMVITVTVKMALETHFWWINHLVTWGSIIFFYIFSLFYGGILW  
 PFLGSONMYFVFIQLSSGSAWFAILLMVVTCLFIDVVKVDFDRQLHPTSTEAQLAEAHSSVKCLDSVC  
 CFPGETPCASVGRMLERVIGRCSPNHISRLWNASDPFYTNDRSILTLSPMDSSTC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_029570

**ORF Size:** 3525 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_029570.3](#), [NP\\_083846.2](#)

**RefSeq Size:** 4883 bp

**RefSeq ORF:** 3528 bp

**Locus ID:** 76295

**UniProt ID:** [Q6DFW5](#)

**Cytogenetics:** 3 B

**Gene Summary:**

Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids, phosphatidylserines (PS) and phosphatidylethanolamines (PE), from the outer to the inner leaflet of intracellular membranes. May contribute to the maintenance of membrane lipid asymmetry in endosome compartment.[UniProtKB/Swiss-Prot Function]