

## Product datasheet for **MG202655**

### Atp6v1e2 (NM\_029121) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1e2 (NM_029121) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v1e2
Synonyms:	4930500C14Rik; Atp6e1; E1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202655 representing NM_029121 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGACTGACATAGACGTGCAGAAGCAGATCAAGCACATGATGGCGTTCATCGAGCAGGAAGCCA  
ACGAGAAGGCGGAGGAGATAGACGCCAAGGCGGAGGAAGAGTTCAACATTGAGAAGGGCCGCTGGTGCA  
GACCCAGCGGCTGAAGATCATGGATTATTTGAGAAGAAGGAGAAACAGATTGAGCAGCAGAAAAAGATC  
CAGCTGTCCACCATGAGAAACCAGGCTCGCATCACGGTCTGAGAGCCCGAGACAATCTCATCTTAGAAT  
TGCTCAAGGATGCCAAGATGAGGCTCAGCAGAATTGTGTCGGATGAAGAAATCTACCAGGACCTGCTGGA  
TAAGCTCGTGCTCCAAGCCTTGCTCCGGCTGCTGGAGCCTGTGATGATTGTCCGCTGCCGGCCACAGGAC  
CTCCACCTGGTGGAGTCTGCGGTGCTAAGAGCCATCCCTCAGTACATGAGGCTCTGCCAGAAGCATTGG  
AGGTACAGGTTGACCAAACCTGAACACTTGCCCTTCCAATGCTGCTGGAGGGGTGGAGGTCTACAGCAGCGA  
TCAGAAAAATAAGGTTTCCAACCCCTGGAAAGTCGGCTGAATCTCGCGGCCATGCAGAAGATGCCAGAA  
ATACGAGGGATTCTGTTGGAGACAACACCAGCAGAAAGTTCTTTACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202655 representing NM\_029121  
Red=Cloning site Green=Tags(s)

MALTDIDVQKQIKHMMAFIEQEANEKAEEDAKAEFEFNIEKGRVLVQTQRLKIMDYFEKKEKQIEQQKKI  
 QLSTMRNQARITVLRARDNLILELLKDAKMRLSRIVSDEEIQDLLDKLVLQALLRLLPEVMIVRCRPQD  
 LHLVESAVLRAIPQYMRLCQKHLEVQVDQTEHLPSNAAGGVEVYSSDQKIKVSNTLESRLNLAAMQKMP  
 IRGILFGDNTSRKFFT

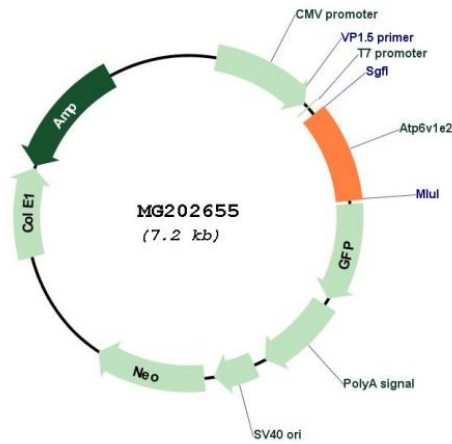
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_029121

**ORF Size:** 678 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_029121.3</a> , <a href="#">NP_083397.3</a>
<b>RefSeq Size:</b>	1005 bp
<b>RefSeq ORF:</b>	681 bp
<b>Locus ID:</b>	74915
<b>UniProt ID:</b>	<a href="#">Q9D593</a>
<b>Cytogenetics:</b>	17 E4
<b>Gene Summary:</b>	Subunit of the peripheral V1 complex of vacuolar ATPase essential for assembly or catalytic function. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. This isoform is essential for energy coupling involved in acidification of acrosome.[UniProtKB/Swiss-Prot Function]