

## Product datasheet for **MG221549**

### **Atp1b4 (NM\_133690) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1b4 (NM_133690) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp1b4
Synonyms:	1110020B02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221549 representing NM_133690 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGACGGCAACTCCGCTCCAGAAGGGCTCCCGCCTTTCCTTACGGTTATCGCTACAGACTTGATGATC  
AGGATGAAGCGAATCACAACTACTTAGCAGATGAAGAGGAGGAAGCTGAAGAGGAGGCTCAGGTGATGAT  
GGTGCCTGGTCTAGAGGAAGAGGAAGAAGAGGAGGAAGGAAAAGAGGAGGAGGAAGAAAGGGAGGAAGAA  
GAAGGTCAGGGTCAGTCAACAGGCAGTGCCTGGTGGCGGAAATTGCAGATCGTGAATGAATACCTGTGGG  
ACCCGGAGAAAAGGATGTCTCTGGCCCGAACAGGTGAGTCCGGAGTCTATTTTATGTCATTTACTTCTT  
CTTCTATGCCTCCCTGGCTGCCGTGATCACCTGTTCATATACATGCTGTTCTAGCCATCAGTCCCTTAC  
ATGCCGACCTTACCGAGCAGGTGAAACCTCCTGGAGTTATGATCAGACCTTCGCTCATAGCCTTAACT  
TCAACTTCAACGTTTCTGAACCTGAAACTTGGCAGCGTTACGTGATTAGCCTAAATGGCTTTCTCCAGGG  
CTATAATGACAGTCTTCAAGAGGAAATGAATATAGATTGTCTCCGGTCCGGTACTTTCATCCAAGATGGA  
GATGAAGATGAGGACAAGAAGGCCTGCCAATTTAAGCGCTCCTTCTGAAGAATTGCTCTGGGTTGGAGG  
ATCCCACTTTTGGATACTCTACTGGACAGCCTTGATCCTCCTCAAGATGAACCGGATTGTAGGCTTCCG  
TCCTGAGTTTGGAGATCCTGTGAAGGTGTCCTGCAAAGTTCAGAAAGGTGATGAAAATGACATTCGATCC  
ATCAATTACTACCCGGAGTCCGCTTCTTTTACCTCCGCTACTACCTTACTATGGCAAAGTACTGATCATG  
TTAACTACACCTCCCGCTGGTGGCAATGCATTTTACAGATGTGGTGAAGAACCAAGCAGTGCCTGTACA  
GTGCCAGCTGAAGGGCAAAGGCATCGTAAATGATGTCATCAATGATCGTTTTGTTGGGAGGATAATCTTT  
ACCCTGAACATAGAAACC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221549 representing NM\_133690  
 Red=Cloning site Green=Tags(s)

MRRQLRSRRAPAFPYGYRYRLDDQDEANHNYLADEEEEEAEQVMMPGLEEEEEEEGKEEEEEEREE  
 EGQGQSTGSAWRKLQIVNEYLWDEPKRMSLARTGQSRSLILVIYFFFYASLAAVITLFIYMLFLAISP  
 MPTTFTEQVKPPGVMIRPFAHSLNFNFNVSEPETWQRYVISLNGFLQGYNDLQEEEMNIDCPPGRYFIQDG  
 DEDEDKACQFKRSFLKNCSGLEDPTFGYSTGQPCILLKMNRIVGFPEFGDPVKVSCVKVQKGDENDIRS  
 INYYPESAFDLRYPPYGLKLVHNYTSPLVAMHFTDVVKVQAVPVQCQLKGGKIVNDVINDRFVGRIF  
 TLNIET

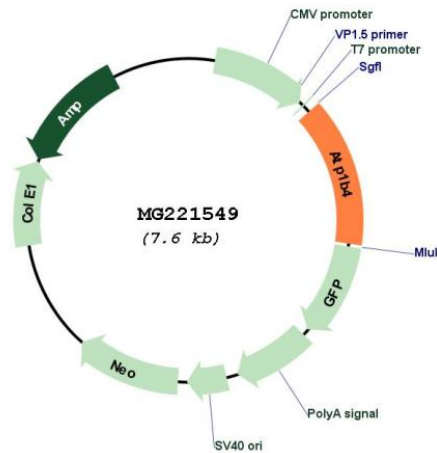
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_133690

<b>ORF Size:</b>	1068 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_133690.3</a> , <a href="#">NP_598451.1</a>
<b>RefSeq Size:</b>	4062 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	67821
<b>UniProt ID:</b>	<a href="#">Q99ME6</a>
<b>Cytogenetics:</b>	X A3.3
<b>Gene Summary:</b>	May act as a transcriptional coregulator during muscle development through its interaction with SNW1. Has lost its ancestral function as a Na,K-ATPase beta-subunit (By similarity). [UniProtKB/Swiss-Prot Function]