

## Product datasheet for MR221549

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1b4 (NM_133690) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp1b4
Synonyms:	1110020B02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221549 representing NM_133690 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGACGGCAACTCCGCTCCAGAAGGGCTCCCGCCTTTCCTTACGGTTATCGCTACAGACTTGATGATC  
AGGATGAAGCGAATCACAACTACTTAGCAGATGAAGAGGAGGAAGCTGAAGAGGAGGCTCAGGTGATGAT  
GGTGCCTGGTCTAGAGGAAGAGGAAGAAGAGGAGGAAGGAAAAGAGGAGGAGGAAGAAAGGGAGGAAGAA  
GAAGGTCAGGGTCAGTCAACAGGCAGTGCCTGGTGGCGGAAATTGCAGATCGTGAATGAATACCTGTGGG  
ACCCGGAGAAAAGGATGTCTCTGGCCCGAACAGGTGAGTCCGGAGTCTATTTTATGTCATTTACTTCTT  
CTTCTATGCCTCCCTGGCTGCCGTGATCACCTGTTCATATACATGCTGTTCTAGCCATCAGTCCCTTAC  
ATGCCGACCTTACCGAGCAGGTGAAACCTCCTGGAGTTATGATCAGACCTTCGCTCATAGCCTTAACT  
TCAACTTCAACGTTTCTGAACCTGAAACTTGGCAGCGTTACGTGATTAGCCTAAATGGCTTTCTCCAGGG  
CTATAATGACAGTCTTCAAGAGGAAATGAATATAGATTGTCTCCGGTCCGGTACTTTCATCCAAGATGGA  
GATGAAGATGAGGACAAGAAGGCCTGCCAATTTAAGCGTCCCTCCTGAAGAATTGCTCTGGGTTGGAGG  
ATCCCACTTTGGATACTCTACTGGACAGCCTTGATCCTCCTCAAGATGAACCGGATTGTAGGCTTCCG  
TCCTGAGTTTGGAGATCCTGTGAAGGTGTCTGCAAAGTTCAGAAAGGTGATGAAATGACATTCGATCC  
ATCAATTACTACCCGGAGTCCGCTTCTTTTGCCTCCGCTACTACCTTACTATGGCAAAGTACTGATGAT  
TTAACTACACCTCCCGCTGGTGGCAATGCATTTTACAGATGTGGTGAAGAACCAAGCAGTGCCTGTACA  
GTGCCAGCTGAAGGGCAAAGGCATCGTAAATGATGTCATCAATGATCGTTTTGTTGGGAGGATAATCTTT  
ACCCTGAACATAGAAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221549 representing NM\_133690  
Red=Cloning site Green=Tags(s)

MRRQLRSRRAPAFPYGYRYRLDDQDEANHNYLADEEEEEAEQVMMPGLEEEEEEEGKEEEEEEREE  
 EGQGQSTGSAWRKLIIVNEYLWDEPKRMLARTGQSRSLILVIYFFFYASLAAVITLFIYMLFLAISPY  
 MPTTFTEQVKPPGVMIRPFAHSLNFNFNVSEPETWQRYVISLNGFLQGYNDLQEMNIDCPPGRYFIQDG  
 DEDEDKACQFKRSFLKNCSGLEDPTFGYSTGQPCILLKMNRIVGFRRPEFGDPVKVSCVKQKGDENDIRS  
 INYYPESASFDLRYPPYGGKLTHTVNYTSPLVAMHFTDVVKNQAVPVQCQLKGGKIVNDVINDRFVGRIF  
 TLNIET

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9019\\_g01.zip](https://cdn.origene.com/chromatograms/mm9019_g01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_133690

**ORF Size:** 1068 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\\_133690.3](#), [NP\\_598451.1](#)

**RefSeq Size:** 4062 bp

**RefSeq ORF:** 1071 bp

**Locus ID:** 67821

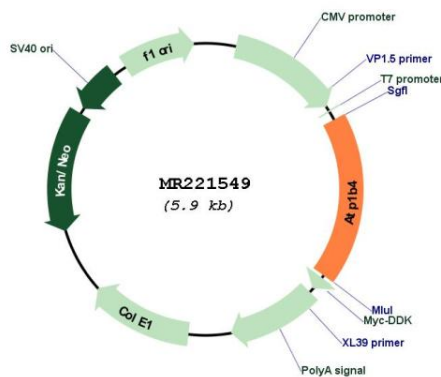
**UniProt ID:** [Q99ME6](#)

**Cytogenetics:** X A3.3

**MW:** 41.9 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR221549