

Product datasheet for **RR203355**

Atp1b4 (NM_053381) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1b4 (NM_053381) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp1b4
Synonyms:	Ac2-628
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR203355 representing NM_053381 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACGGCAACTCCGCTCCAGAAGGGCGCCGGCCTTTCCTTATGGTTACCGCTACAGACTTGATGATC
AGGATGAAATGAATCACAACTACTTAGCGGACGAAGAGGAGGAAGCAGAAGAAGAGGCTCAGGTGATGAT
GGTGCCTGGTCTGGAGGAAGAGGAAGAAGAGGAGGAAGGAAAAGAGGAGGAGGAAGAAGGGAGGAAGAA
GAAGGTCAGGGTCAGTCAACAGGCAATGCCTGGTGGCGGAAATTGCAGATCGTGAATGAATACCTGTGGG
ACCCGGAGAAAAGGATGTCTCTGGCCCGAACAGGTCAGAGTCGGAGTCTATTTTAGTCATTTACTTCTT
CTTCTATGCCTCCCTGGCTGCCGTGATCACCTATTCATATATATGCTGTTCTAGCCATCAGTCCTTAC
ATGCCGACCTTACGGAGCAGGTGAAACCTCCTGGAGTTATGATCAGACCTTCGCTCATAGCCTTAACT
TCAACTTCAACGTTTCTGAACCTGAAACTTGGCAGCGTTATGTCATTAGCCTAAATGGCTTCTCCAGGG
CTATAATGACAGTCTTCAAGAGGAAATGAATATAGATTGTCTCCCGGTCAGTACTTCATCCAAGATGGA
GATGAAGATGAGGACAAGAAGGCCTGCCAATTTAAACGCTCCTTCTGAAGAATTGCTCTGGGCTGGAGG
ACCCACTTTTGGATATTCTACTGGACAGCCTTGATCCTTCTCAAGATGAACCGGATTGTAGGCTTTCG
TCCTGAATTTGGAGATCCTGTGAAGGTGTCTGCAAAGTTCAGAAAGGTGATGAAAACGACATTCGATCC
ATCAATTACTACCCGGAGTCAGTCTTTTGGACCTCCGCTACTACCTTACTATGGCAAAGTACTGATCAG
TTAACTACACCTCCCGCTGGTGGCAATGCATTTTACAGACGTGGTGAAGAACCAAGAAGTGCCTGTACA
GTGCCAGCTGAAGGGCAAAGGCATCGTAAATGACGTCATCAATGATCGTTTCGTCGGGAGGATAATCTTT
ACCCTGAACATAGAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR203355 representing NM_053381
 Red=Cloning site Green=Tags(s)

MRRQLRSRRAPAFPYGYRYRLDDQDEMNHNYLADEEEEEAEAAAQVMMVPGLEEEEEEEGKEEEEEEREE
 EGQGQSTGNAWRKLIQVNEYLWDEPKRMSLARTGQSRSLILVIYFFFYASLAAVITLFIYMLFLAISPY
 MPTTFTEQVKPPGVMIRPFAHSLNFNFNVSEPETWQRYVISLNGFLQGYNDLQEEEMNIDCPPGQYFIQDG
 DEDEDKACQFKRSFLKNCSGLEDPFTFGYSTGQPCILLKMNRIVGFRRPEFGDPVKVSCVKQKGDENDIRS
 INYYPESASFDLRYPPYYGKLTHVNYTSPLVAMHFTDVVKNQEVVQCQLKGGKI VNDVINDRFVGRIF
 TLNIET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053381

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_053381.1](#), [NP_445833.1](#)

RefSeq Size: 4174 bp

RefSeq ORF: 1071 bp

Locus ID: 84396

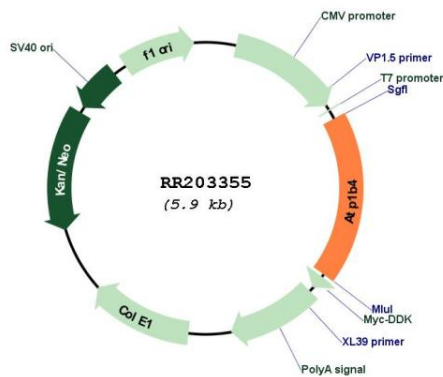
UniProt ID: [Q9R193](#)

Cytogenetics: Xq35

MW: 41.5 kDa

Gene Summary: may act as a muscle cell specific Na⁺,K-ATPase [RGD, Feb 2006]

Product images:



Circular map for RR203355