

Product datasheet for **RR217338**

Atp12a (NM_001301664) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp12a (NM_001301664) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp12a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR217338 representing NM_001301664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGGGGCTTTTCCATCCTCTGTGGATAGGTGCTGCCTTGTGCTGGATCGCATTGTGATCCAGT
 ACGTCAACAATTCCGCATCCCTAGACAAGTCTACTTGGGCGCCATACTTGTCTGGTTGTTATTTAAAC
 GGGGATTTTTGCTTATTACCAAGAAGCCAAAAGCACCAACATCATGGCCAGCTTTAGTAAGATGATCCCC
 CAGCAAGCTCTTGTATCCGAGATGCCGAAAAGAAGTCAATTCAGCAGAGCAACTGGTGGTGGGGGACG
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 AGATAACTCCTCTCACTGGGGAATCTGAGCCCCAGGCTCGTTCAACTGAGTTTACCCATGAAAACCCC
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 CTAACGTGCCAGAGGGCCTCCTGGCTACTGTCACTGTTACCCTGTCACTGACGGCAAAACGGATGGCCAA
 GAAGAAGTGCCTGGTAAAGAATCTGGAGGCAGTGGAGACTCTTGGCTCCACCTCCATCATCTGCTCAGAC
 AAGACGGGACCCCTGACCAGAACAGGATGACTGTGGCTCACTTGTGGTTGACAATCAGATCTTTGTGG
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 GGGCTGTGAGAGGACAGGCCATCGTTGCCGTGACGGGTGATGGAGTGAACGACTCTCCAGCACTGAAG
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 GGGAAACAGATGACATAAATGACTTGAAGACAGCTACGGGCAGGAATGGACAAGGTATCAGAGAAAATA
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 GCTCAGGGTTCAGTACTGGTTTGTGGCTGTGCCACATGCCATTTTGATTTGGGTGTATGACGAGATGCCA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RR217338 representing NM_001301664
 Red=Cloning site Green=Tags(s)

MVGGFSILLWIGAALCWIAFVIQYVNNASLDNVYLGAILLVVILTGIFAYYQEAKSTNIMASFKMIP
 QQALVIRDAEKKVISAEQLVVGDVVEIKGGQIPADIRLVFSQGCKVDNSSLTGESEPARSTEFTHENP
 LETKNIGFYSTTCLEGTATGIVINTGDRTIIGRIASLASGVGSEKTPIAIEIEHFVHIVAGVAVSIGIIF
 FITAVCMKYVLDIAIIFLISIIIVANVPEGLLATVTVTLSTAKRMAKKNCLVKNLEAVETLSTSIICSD
 KTGTLTQNRMTVAHLWFDNQIFVADTSENQTKQAFDQSSGTWASLSKIIITLCNRAEFRPQGESVPIMKRT
 VVGDASETALLKFSEVILGDVGMGIRKRNHKVAEIPFNSTNKFQLSIHETEDPNDKRFVVMKGAPERILE
 KCSTIMINGQEQPLDKSSADSFHTAYMELGGLGERVLGFCHLYLPAEQFPQSYIFDVDSVNFPTSNSFCV
 GLLSMIDPPRSTVPDAVSKCRSAGIKVIMVTGDHPITAKAIAKSVGIISANNETVEDIAKRRNIAVEQVN
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 KADIGIAMGIAGSDAAKNAADMVLLDDNFASIVTGVEEGRIFDNLKKTIAAYTLTKNIAELCPFLIYIVA
 GLPLPIGTITILFDLGTDIIPSIALAYEKAESDIMNRKPRHKKKDRLVNTQLAIYSYLHIGLMQALGGF
 LVYFTVYAQQGFWPTSLINLRVAWETDDINDLEDSYGQEWTRYQRKYLEWTGSTAFFVAIMIQQIADLII
 RKTRRNSIFQQGLFRNKVIWVGIASQVIVALILSYGLGSPALSFMLRVQYWFVAVPHAILI WVYDEM
 R KLFIRLYPGSWWDKNMYY

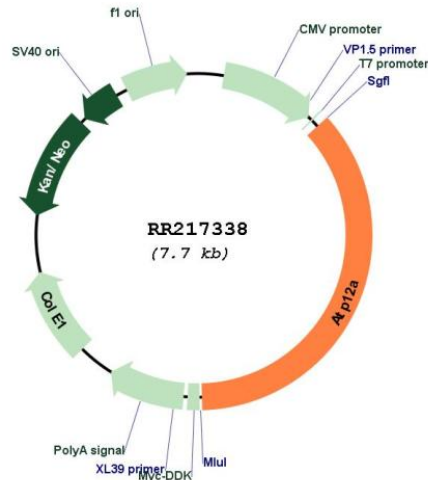
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001301664

ORF Size: 2784 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_001301664.1](#), [NP_001288593.1](#)

RefSeq Size: 4160 bp

RefSeq ORF: 2787 bp

Locus ID: 171028

Cytogenetics: 15p12

MW: 102.5 kDa

Gene Summary: may act as a H⁺,K⁺-ATPase in distal colon; may also play a role in K⁺ absorption and H⁺ secretion in the distal nephron [RGD, Feb 2006]