

Product datasheet for **RR204905**

Atp6v1a (NM_001108318) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1a (NM_001108318) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v1a
Synonyms:	Atp6v1a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR204905 representing NM_001108318
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTTCTCCAAGCTACCCAAAATCCGTGATGAAGACAAGAAAGCACATTTGGTTATGTGCATGGAG
 TCTCAGGGCCTGTGGTCACCGCCTGTGACATGGCGGGCGCTGCCATGTACGAGCTGGTGAGAGTGGGGCA
 CAGCGAGCTGGTCGAGAGATTATCCGACTGGAAGGTGACATGGCCACCATTAGGTGTACGAGGAAACT
 TCTGGTGTCTCTGTTGGAGACCCTGACTCCGCACTGGTAAACCTCTCTCGGTAGAACTTGGTCCTGGCA
 TTATGGGAGCCATTTTGGTATTAGAGACCTCTATCGGATATCAGCAGTCAGACCCAAAGTATCTA
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 GTGCGTACAGTGGCGCCTGTCACTGAAAAGCTGCCAGCAACCACCCCTTCTTACTGGCCAGAGAGTGC
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 TTACACTGGAATTACACTATCAGAATACTCCGTGACATGGGGTACCACGTCAGTATGATGGCTGACTCT
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 AGTGACAATAAGATCACATGGTCCATTATCCGTGAGCACATGGGGGAGATTCTCTATAAACTTCTCTCCA
 TGAATTAAGGATCCAGTGAAGGATGGCGAGGCAAGATCAAGGCCGACTACGCACAGCTTCTGAAGA
 TATGCAGAACGCATTCCGTAGCCTGGAAGAT

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Protein Sequence:

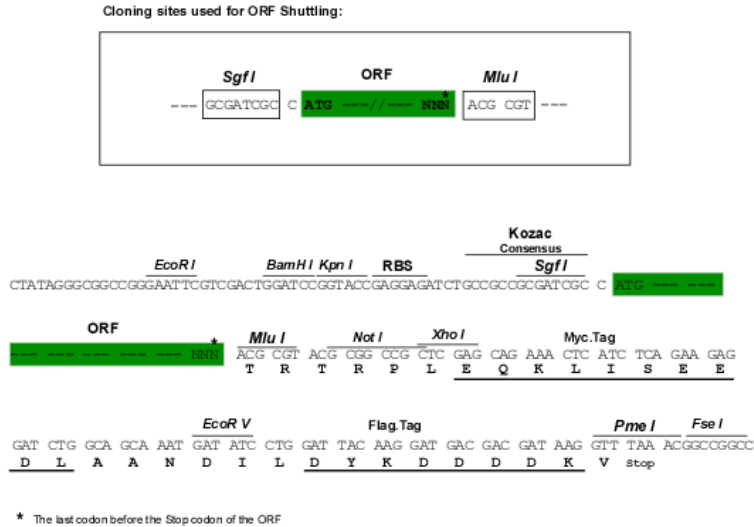
>RR204905 representing NM_001108318
 Red=Cloning site Green=Tags(s)

MDFSKLPKIRDEDKESTFGYVHGVSGPVVTAACDMAGAAMYELVRVGHSELVGEIIRLEGDMATIQQVEET
 SGVSVGDPVLRRTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQSIYIPRGVNVLSALSRDIKWEFIPSKN
 LRVGSHITGGDIYGI V NENSLIKHKIMLPPRSRGSVTYIAPPGNYDASDVVLELEFEFVKEKLSMVQVWP
 VRQVRPVTEKLPANHPLL T GQRVLDALFPCVQGGTTAIPGAFGCGKTVISQSLSKYSNSDVIIYVGCGER
 GNEMSEVLRDFPELTMEVDGKVESIMKRTALVANTSNMPVAAREASIYTGITLSEYFRDMGYHVSMMADS
 TSRWAEALREISGR LAEMPADSGYPAYLGARLASFYERAGRVKCLGNPEREGSVSIVGAVSPPGGDFSDP
 VTSATLGIVQVFWGLDKKLAQRKHFPVSNWLISYSKYMRALDEYYDKHFTEFVPLRRTKAKEILQEEEDLA
 EIVQLVGKASLAETDKITLEVAKLIKDDFLQQNGYTPYDRFCPFYKTVGMLSNMISFYDMARRAVETTAQ
 SDNKITWSIIREHMGEILYKLSMKFKDPVKDGEAIKADYAQLLEDQMNAFRSLED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001108318

ORF Size: 1851 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_001108318.2](#), [NP_001101788.1](#)

RefSeq Size: 4069 bp

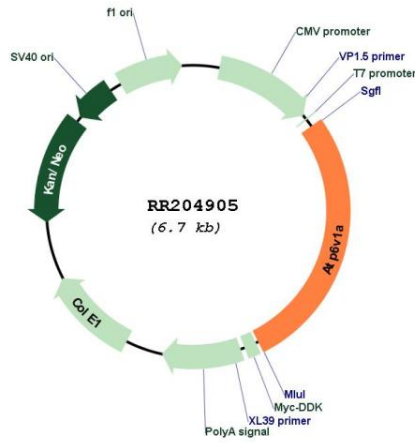
RefSeq ORF: 1854 bp

Locus ID: 685232

Cytogenetics: 11q21

MW: 68.3 kDa

Product images:



Circular map for RR204905