

Product datasheet for **RR210998**

Atp1a2 (NM_012505) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1a2 (NM_012505) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp1a2
Synonyms:	RATATPA2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210998 representing NM_012505 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RR210998 representing NM_012505
 Red=Cloning site Green=Tags(s)

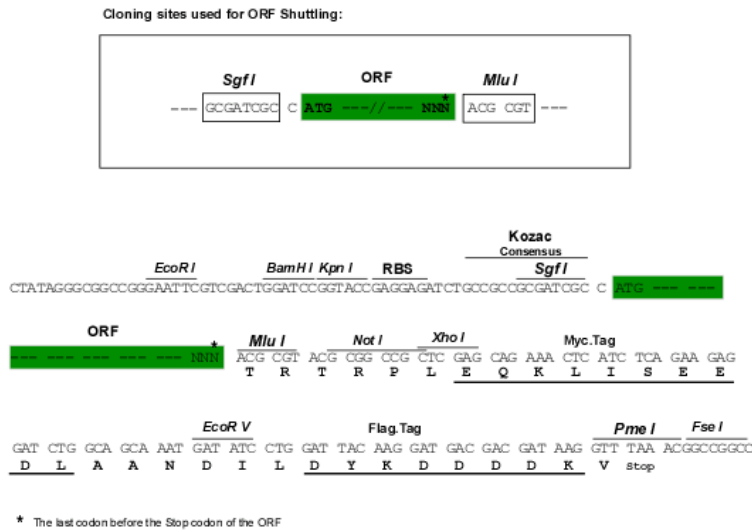
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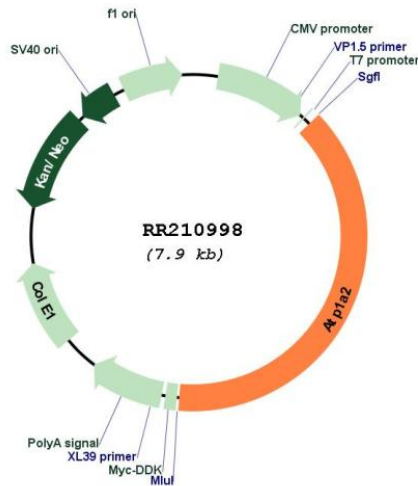
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012505

ORF Size: 3060 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:	<ol style="list-style-type: none">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:	<u>NM_012505.2</u> , <u>NP_036637.1</u>
RefSeq Size:	5149 bp
RefSeq ORF:	3063 bp
Locus ID:	24212
UniProt ID:	<u>P06686</u>
Cytogenetics:	13q24
MW:	112.2 kDa
Gene Summary:	catalytic subunit of the membrane ATPase; involved in ATP dependent transport of Na ⁺ and K ⁺ ; necessary for creating and maintaining electrochemical gradient across plasma membrane [RGD, Feb 2006]