

Product datasheet for **RC224941**

ATP8A1 (NM_006095) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP8A1 (NM_006095) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP8A1
Synonyms:	ATPASEII; ATP1A; ATPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224941 representing NM_006095 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACCATGCGGAGGACCGTGTGCGAGATCCGCTCGCGGCCGAAGGTTATGAGAAGACAGATGATG
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224941 representing NM_006095
 Red=Cloning site Green=Tags(s)

MPTMRRTVSEIRSRAEGYEKTDVVSEKTSADQEEVRTIFINQPQLTKFCNNHVSTAKYNIITFLPRFLY
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 LLKKNMGMIVINEGSLDGTRETLRHCCTLGDALRKENDFALIIDGKTLKYALTFGVRQYFLDLALSCKA
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 GNFYVTFVVTIVCLKAGLETSYWTFSHIAIWGSIALWVFFGIYSSLWPAIPMAPDMSGEAAMLFSSGV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

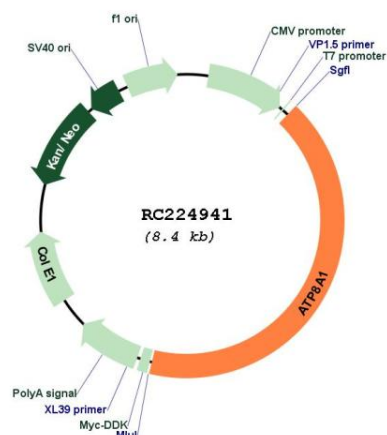


ACCN: NM_006095

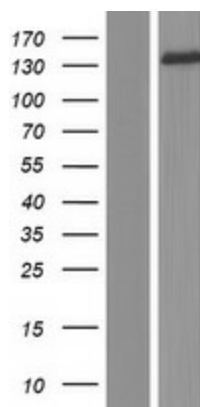
ORF Size: 3492 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006095.2
RefSeq Size:	3794 bp
RefSeq ORF:	3495 bp
Locus ID:	10396
UniProt ID:	Q9Y2Q0
Cytogenetics:	4p13
Domains:	Hydrolase
Protein Families:	Transmembrane
MW:	131.2 kDa
Gene Summary:	The P-type adenosinetriphosphatases (P-type ATPases) are a family of proteins which use the free energy of ATP hydrolysis to drive uphill transport of ions across membranes. Several subfamilies of P-type ATPases have been identified. One subfamily catalyzes transport of heavy metal ions. Another subfamily transports non-heavy metal ions (NMHI). The protein encoded by this gene is a member of the third subfamily of P-type ATPases and acts to transport amphipaths, such as phosphatidylserine. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224941



Western blot validation of overexpression lysate (Cat# [LY416867]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224941 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).