

Product datasheet for RC222814

ATP11B (NM_014616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP11B (NM_014616) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP11B
Synonyms:	ATPIF; ATPIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222814 representing NM_014616 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCGCTGGATCCGGCAGCAGCTGGGTTTTGACCCACCACATCAGAGTGACACAAGAACCATCTACG
TAGCCAACAGGTTTCCTCAGAATGGCCTTTACACACCTCAGAAATTTATAGATAACAGGATCATTTCATC
TAAGTACACTGTGTGGAATTTTGTCCAAAAATTTATTTGAACAGTTCAGAAGAGTGGCAAACCTTTTAT
TTTCTTATTATTTTTGGTTCAGCTTATGATTGATACACCTACCAGTCCAGTTACCAGTGGACTCCAT
TATTCTTTGTGATAACAGTAACTGCCATAAAGCAGGGATATGAAGATTGGTTACGGCATAACTCAGATAA
TGAAGTAAATGGAGCTCCTGTTTATGTTGTTTTCGAAAGTGGTGGCCTTGTAATAACTAGATCAAAAAACATT
CGGGTGGGTGATATTGTTTCGAATAGCCAAAGATGAAATTTTTCTGCAGACTTGGTGCTTCTGTCCTCAG
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GCAGTCAGTCTCTGTCACACTGTACAGATTAGCAATGTTCAAACCTGACTGCACTGGTGATGGTCCCTGGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC222814 representing NM_014616
Red=Cloning site Green=Tags(s)

MWRWIRQQLGFDPPHQSDTRTIYVANRFPQNGLYTPQKFIDNRIISSKYTVWNFVPKNLF EQFRRVANFY
 FLIIFLVQLMIDTPTSPVTSGLPLFFVITVTAIKQGYEDWLRHNSDNEVNGAPVYVVRSGGLVKTRSKNI
 RVGDIVRIAKDEIFPADLVLLSSDRLDGSCHVTTASLDGETNLKTHVAVPETALLQTVANLDTLVAVIEC
 QQPEADLYRFMGRMIITQQMEEIVRPLGPESLLLRGARLKNTKEIFGVAVYTGMEKMLNYKSKSQKRS
 AVEKSMNTFLIIYLVLISEAVISTILKYTWQAEKWEDEPWYNQKTEHQRNSSKILRFISDFLAFVLVYN
 FIIPISLYVTVMQKFLGSFFIGWDLDLYHEESDQKAQVNTSDLNEELGQVEYVFTDKTGLTENEMQFR
 ECSINGMKYQEINGRLVPEGPTPDSSEGNLSYSSLSHLNNLSHLTTSSSFRTSPENETELIKEHDLFFK
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 VYLTLYNICFTSLPILIYSLLEQHVDPHVLQNKPTLYRDISKNRLLSIKTFLYWTILGFSHAFIFFFGSY
 LLIGKDTSL LGNGQMGFNWTFGLVFTVMVITVTVKMALETHFWTWINHLVTWGSIIIFYVFSLFYGGIL
 WPFLG SQNMVFVFIQLLSSGSAWFAIILMVVTCFLFDI IKKVFDRHLHPTSTEAQLTETNAGIKCLDSM
 CCFPEGEAACASVGRMLERVIGRCSPTHISRWSASDPFYTNDRSILTLSTMDSSTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8009_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

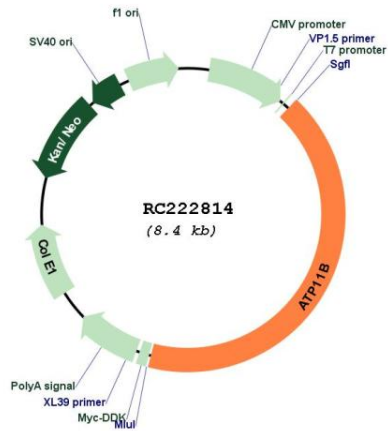


ACCN: NM_014616

ORF Size: 3531 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:	NM_014616.3
RefSeq Size:	7368 bp
RefSeq ORF:	3534 bp
Locus ID:	23200
UniProt ID:	Q9Y2G3
Cytogenetics:	3q26.33
Protein Families:	Transmembrane
MW:	134 kDa
Gene Summary:	P-type ATPases, such as ATP11B, are phosphorylated in their intermediate state and drive uphill transport of ions across membranes. Several subfamilies of P-type ATPases have been identified. One subfamily transports heavy metal ions, such as Cu(2+) or Cd(2+). Another subfamily transports non-heavy metal ions, such as H(+), Na(+), K(+), or Ca(+). A third subfamily transports amphipaths, such as phosphatidylserine.[supplied by OMIM, Feb 2005]

Product images:



Circular map for RC222814