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Product datasheet for RC236579

ATP1B2 (NM_001303263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP1B2 (NM_001303263) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP1B2
Synonyms:	AMOG
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236579 representing NM_001303263 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGATTCGCCCCAAGACTGAGAACCTTGATGTCATTGTCAATGTCAGTGACACTGAAAGCTGGGACCAGC ATGTTCAGAAGCTCAACAAGTTCTTGGAGCCTTACAACGACTCTATCCAAGCCCAAAAGAATGATGTCTG CCGCCCTGGACGCTATTACGAACAGCCAGATAATGGAGTCCTCAACTACCCCAAACGTGCCTGCCAATTC AACCGGACCCAGCTGGGCAACTGCTCCGGCATTGGGGACTCCACCCACTATGGTTACAGCACTGGGCAGC CCTGTGTCTTCATCAAGATGAACCGGGTCATCAACTTCTATGCAGGAGCAAACCAGAGCATGAATGTTAC CTGTGCTGGGAAGCGAGATGAAGATGCTGAGAATCTCGGCAACTTCGTCATGTTCCCCGCCAACGGCAAC ATCGACCTCATGTACTTCCCCTACTATGGCAAAAAGTTCCACGTGAACTACACACAGCCCCTGGTGGCTG TGAAGTTCCTGAATGTGACCCCCAACGTGGAGGTGAATGTAGAATGTCGCATCAACGCCGCCAACATCGC CACAGACGATGAGCGAGACAAGTTCGCCGGCCGCGTGGCCTTCAAACTCCGCATCAACAAAACC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC236579 representing NM_001303263 Red=Cloning site Green=Tags(s) MIRPKTENLDVIVNVSDTESWDQHVQKLNKFLEPYNDSIQAQKNDVCRPGRYYEQPDNGVLNYPKRACQF NRTQLGNCSGIGDSTHYGYSTGQPCVFIKMNRVINFYAGANQSMNVTCAGKRDEDAENLGNFVMFPANGN IDLMYFPYYGKKFHVNYTQPLVAVKFLNVTPNVEVNVECRINAANIATDDERDKFAGRVAFKLRINKT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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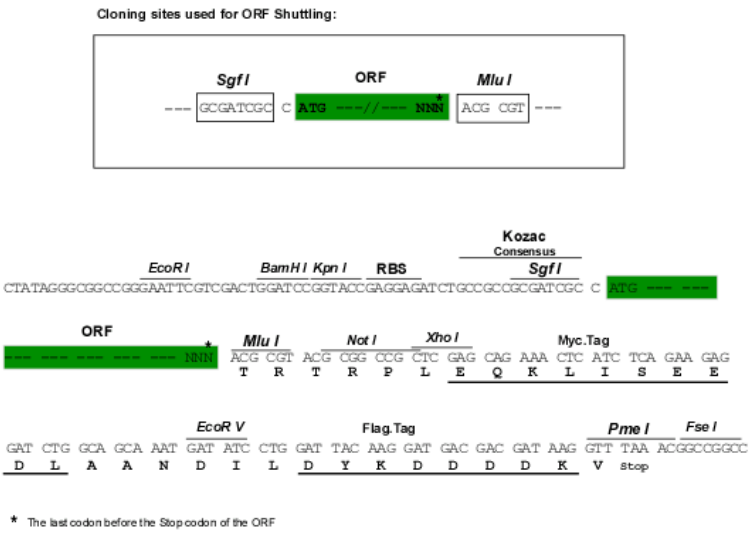
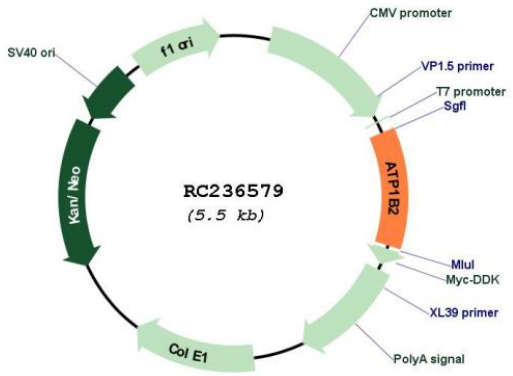
Cloning Scheme:



Plasmid Map:



ACCN:	NM_001303263
ORF Size:	624 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_001303263.1, NP_001290192.1
RefSeq Size:	2601 bp
RefSeq ORF:	627 bp
Locus ID:	482
UniProt ID:	P14415
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
Protein Pathways:	Cardiac muscle contraction
MW:	24.1 kDa
Gene Summary:	The protein encoded by this gene belongs to the family of Na+/K+ and H+/K+ ATPases beta chain proteins, and to the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]