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Product datasheet for SC332317

ATP1A3 (NM_001256213) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP1A3 (NM_001256213) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP1A3
Synonyms:	AHC2; ATP1A1; CAPOS; DYT12; RDP
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC332317 representing NM_001256213.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGGAGGCTGGGAGGAGGAGAGGAACAGGAGAGCCACGGACAAGAAAGATGACAAGGACTCACCCAAG
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ATGTCAGTGGAAGAGGTCTGCCGGAAATACAACACAGACTGTGTGCAGGGTTTGACCCACAGCAAAGCC
CAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTCACGCCACCGCCTACCACCCCAGAGTGGGTCAAG
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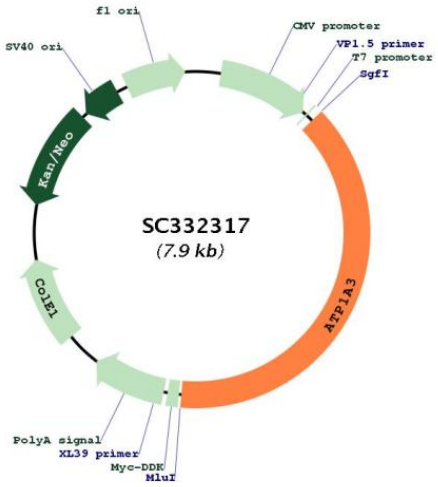
TCGGTCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCGGGCTGTTTGAGGAGACGGCCCTGGCT
GCCTTCCTGTCCTACTGCCCCGGCATGGACGTGGCCCTGCGCATGTACCCTCTCAAGCCCAGCTGGTGG
TTCTGTGCCTTCCCCTACAGTTTCCTCATCTTCGTCTACGACGAAATCCGCAAACTCATCCTGCGCAGG
AACCCAGGGGGTTGGGTGGAGAAGGAAACCTACTACTGA

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001256213
Insert Size:	3075 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001256213.1
RefSeq Size:	3504 bp
RefSeq ORF:	3075 bp
Locus ID:	478
UniProt ID:	P13637
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cardiac muscle contraction

MW: 113.1 kDa

Gene Summary: The protein encoded by this gene belongs to the family of P-type cation transport ATPases, 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 catalytic subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
Transcript Variant: This variant (2) has an alternate 5' exon, compared to variant 1. The resulting isoform (2) has a different and longer N-terminus, compared to isoform 1.