

Product datasheet for RC229056L4V

OriGene Technologies, Inc.

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Sodium Potassium ATPase (ATP1A1) (NM_001160234) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Sodium Potassium ATPase (ATP1A1) (NM_001160234) Human Tagged ORF Clone Lentiviral

Particle

Symbol: Sodium Potassium ATPase

Synonyms: CMT2DD; HOMGSMR2

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_001160234

ORF Size: 3072 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC229056).

OTI Disclaimer:

Sequence:

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.

RefSeq: NM 001160234.1, NP 001153706.1

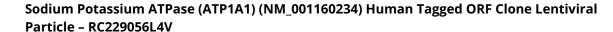
RefSeq Size:3587 bpRefSeq ORF:2979 bpLocus ID:476

UniProt ID: P05023

Cytogenetics: 1p13.1

Protein Families: Druggable Genome, Transmembrane







Protein Pathways: Cardiac muscle contraction

MW: 112.9 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 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, May 2009]