

Product datasheet for RC221453

ATP6V1G3 (NM 133262) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ATP6V1G3 (NM_133262) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: ATP6V1G3

Synonyms: ATP6G3; Vma10

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC221453 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221453 protein sequence

Red=Cloning site Green=Tags(s)

MTSQSQGIHQLLQAEKRAKDKLEEAKKRKGKRLKQAKEEAMVEIDQYRMQRDKEFRLKQSKIMGSQNNLS

DEIEEQTLGKIQELNGHYNKYMESVMNQLLSMVCDMKPEIHVNYRATN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6457 a01.zip

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

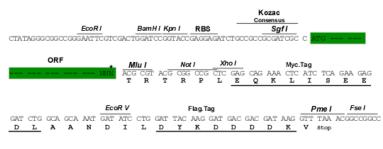
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_133262

ORF Size: 354 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.

RefSeg: NM 133262.2, NP 573569.1

 RefSeq Size:
 645 bp

 RefSeq ORF:
 357 bp

 Locus ID:
 127124

 UniProt ID:
 Q96LB4



Cytogenetics: 1q31.3

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative

phosphorylation, Vibrio cholerae infection

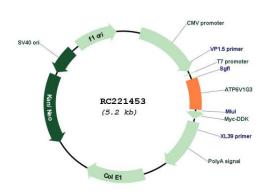
MW: 13.9 kDa

Gene Summary: This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that

have been found for this gene. [provided by RefSeq, Jul 2008]

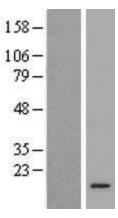
mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'' and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This gene encodes one of three G subunit proteins. Transcript variants encoding different isoforms

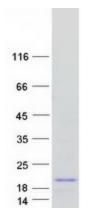
Product images:



Circular map for RC221453







Western blot validation of overexpression lysate (Cat# [LY408852]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221453 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ATP6V1G3 protein (Cat# [TP321453]). The protein was produced from HEK293T cells transfected with ATP6V1G3 cDNA clone (Cat# RC221453) using MegaTran 2.0 (Cat# [TT210002]).