

Product datasheet for KN209819LP

OriGene Technologies, Inc.

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ATP6V0A2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: ATP6V0A2

Locus ID: 23545

Components: KN209819G1, ATP6V0A2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN209819G2, ATP6V0A2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN209819LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 012463</u>

UniProt ID: Q9Y487

Synonyms: A2; ARCL; ARCL2A; ATP6A2; ATP6N1D; J6B7; RTF; STV1; TJ6; TJ6M; TJ6S; VPH1; WSS

Summary: The protein encoded by this gene is a subunit of the vacuolar ATPase (v-ATPase), an

heteromultimeric enzyme that is present in intracellular vesicles and in the plasma

membrane of specialized cells, and which is essential for the acidification of diverse cellular

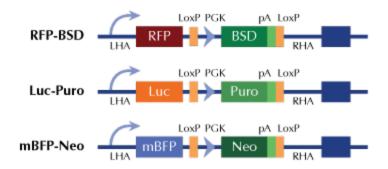
components. V-ATPase is comprised of a membrane peripheral V(1) domain for ATP hydrolysis, and an integral membrane V(0) domain for proton translocation. The subunit encoded by this gene is a component of the V(0) domain. Mutations in this gene are a cause

of both cutis laxa type II and wrinkly skin syndrome. [provided by RefSeq, Jul 2009]



Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter