

Product datasheet for **KN209819**

ATP6V0A2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	ATP6V0A2
Locus ID:	23545
Components:	<p>KN209819G1, ATP6V0A2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATGGTCTCGCTCCGGAACA</p> <p>KN209819G2, ATP6V0A2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGGGCGCTGAGGCACTCGT</p> <p>KN209819D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 TACTCTCCG TATCGCTACG TGACTGGGTC ATGGCTGCGC CCCGACCC

GE100003, scramble sequence in pCas-Guide vector

Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_012463](#)

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:

