

Product datasheet for **KN210275**

ATP6IP2 (ATP6AP2) 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:	ATP6IP2
Locus ID:	10159
Components:	<p>KN210275G1, ATP6IP2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTTTGTCTGCTCCTGGCGT</p> <p>KN210275G2, ATP6IP2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGGGAGGTCCTGCGCCGCG</p> <p>KN210275D, 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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AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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_005765](#)

UniProt ID:

[O75787](#)

Synonyms:

APT6M8-9; ATP6IP2; ATP6M8-9; ELDF10; HT028; M8-9; MRXE; MRXSH; MSTP009; PRR; RENR; XMRE; XPDS

Summary:

This gene encodes a protein that is associated with adenosine triphosphatases (ATPases). Proton-translocating ATPases have fundamental roles in energy conservation, secondary active transport, acidification of intracellular compartments, and cellular pH homeostasis. There are three classes of ATPases- F, P, and V. The vacuolar (V-type) ATPases have a transmembrane proton-conducting sector and an extramembrane catalytic sector. The encoded protein has been found associated with the transmembrane sector of the V-type ATPases. [provided by RefSeq, Jul 2008]

Product images:

