

## Product datasheet for **KN301808**

### Atp6v0a2 Mouse 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:** 21871  
**Components:** **KN301808G1**, Atp6v0a2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCAGGCACATGCTCTCGCTG  
**KN301808G2**, Atp6v0a2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGCGCGCTCAGACACTCGT  
**KN301808D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

#### 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 TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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**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\\_011596](#)

**UniProt ID:**

[P15920](#)

**Synonyms:**

8430408C20Rik; AI385560; ATP6a2; Atp6n1d; Atp6n2; AW489264; C76904; ISF; J6B7; SHIF; Stv1; Tj6

**Summary:**

This gene encodes a subunit of vacuolar ATPase, a multimeric enzyme that localizes to intracellular vesicles and to the plasma membrane of specialized cells. The encoded protein is a component of the V(0) domain, which functions in proton translocation across membranes. Function of this gene is important in fetal-specific immune suppression during pregnancy. [provided by RefSeq, May 2013]

Product images:

