

Product datasheet for **KN301806**

Atp6ap2 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: Atp6ap2
Locus ID: 70495
Components: **KN301806G1**, Atp6ap2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCTGGTGGCGGGTGAGTAGC
KN301806G2, Atp6ap2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCGGGAAGCTAGGGGGCGCG
KN301806D, 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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 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_027439](#)

UniProt ID:

[Q9CYN9](#)

Synonyms:

(P)RR; 5730403E06Rik; APT6M8-9; Atp6ip2; ATP6M8-9; M8-9; PRR

Summary:

Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

