

Product datasheet for **KN311056**

Nlrp6 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: Nlrp6
Locus ID: 101613
Components: **KN311056G1**, Nlrp6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTGGAGCAGGAGGCTCCAG
KN311056G2, Nlrp6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCACACTCACCTGGAGCAGG
KN311056D, 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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GCTATACGAA GTTATTAGT CCCTCAAGA GGTTCAC TAGCAGC

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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_001081389](#), [NM_133946](#)

UniProt ID:

[Q91WS2](#)

Synonyms:

AI504961; Nalp6; Navr/Avr; Pypaf5

Summary:

The protein encoded by this gene binds arginine-vasopressin and may be involved in the arginine-vasopressin-mediated regulation of renal salt-water balance. The encoded protein also mediates inflammatory responses in the colon to allow recovery from intestinal epithelial damage and protects against tumorigenesis and the development of colitis. Finally, this protein can increase activation of NF-kappa-B, activation of CASP1 through interaction with ASC, and cAMP accumulation. [provided by RefSeq, Feb 2013]

Product images:

