

Product datasheet for KN301741BN

Atg7 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo

Symbol: Atg7 Locus ID: 74244

Components: KN301741G1, Atg7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN301741G2, Atg7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN301741BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

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: <u>NM 001253717</u>, <u>NM 001253718</u>, <u>NM 028835</u>

UniProt ID: Q9D906

Synonyms: 1810013K23Rik; Agp7; Apg7l; Atg7l; Gm21553

Summary: This gene encodes an E1-like activating enzyme that is essential for autophagy and

cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results

in multiple transcript variants. [provided by RefSeq, Sep 2015]



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

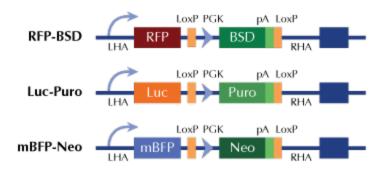
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter