

Product datasheet for KN215079LP

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

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

ATG7 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: ATG7 Locus ID: 10533

Components: KN215079G1, ATG7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN215079G2, ATG7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN215079LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: NM 001136031, NM 001144912, NM 006395, NM 001349232, NM 001349233,

NM 001349234, NM 001349235, NM 001349236, NM 001349237, NM 001349238

UniProt ID: <u>095352</u>

Synonyms: APG7-LIKE; APG7L; GSA7

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

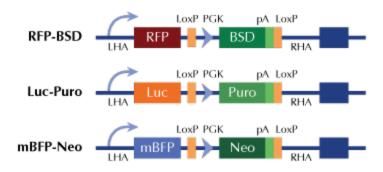
in multiple transcript variants. [provided by RefSeq, Sep 2015]





Product images:

Donor Vector Edited Chromosome



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