

Product datasheet for **KN210563**

ATG5 Human 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:	ATG5
Locus ID:	9474
Components:	<p>KN210563G1, ATG5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AACTTGTTTCACGCTATATC</p> <p>KN210563G2, ATG5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAGATGTGCTTCGAGATGTG</p> <p>KN210563D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>Homologous arm and GFP-puro sequences: pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</p> <pre>GAGGAGAAAC TATCTGGAGT AGGAAAAGGT GAATATATTG GACGGGGCAG GGGTAAATGC GAGAATGATC CTTTGGAGTT GGACTGTCAG GATTCACAGG GTATAGGTGA AGCTCCTCTT TAGGTAAGCA GTAGACTCTT CTGGGCTTGA AAGACTGATG CAGATACAGT TTCATTTTGA CTGTGGTTCA GACTTAAAT ATGCAATGAA TATTACTGGC ATATGTAATT TTGATCTGAT TCCTTTACAT AAGTAATAAT TTTACATTTA GAATTTGTTG TACTCTTTTC TTTGAATTTA TACTAAAGAT TGGTGATCAT CGTTTTTTTT TTTTGAAGTG GATAATCTTT ATGGCATGGA TTTTTTAAA TAATCTTTTG TTTTCTAGCA GGTTTCATTCA TCGTTGCAAG GATCTGACTA ATGCTCTTCA TTTTATTTTC AGTTTGGCTT TGGTTGAAAT AAGAATTTAG CCTGTATGTA CTGCTTTAAC TCCTGGAAGA ACTTGAGGC CATTATGTAA CGTTTTAGAT ACAGCTAATT CATGCTTATT TTGGAAAAAA AATTAACACA GATAAGCATA AAGAAGGAAA TAATCACCTC TAATGCTACC ACTCAGAGGA CAAAACCACT GTCAGCATGT TGTCATGATG CGTTCTGGAC TTTGTTTTCC TTACATGTAT GTGGGTATGT TAATGGAATC ATCAGCTATG GTGCCTTCTT GACTTTCTTT TTCTTATGCA TATATTCATA TATAATAAAT GTATGATAAT GGAATAATAA GATGTGCTTT TTTAATAGGA AGAGATATTG AAAATAATAG GTTCAGATTG TATTCTTTTG TAGTTAGGAG ATTCTAAGCA ACTGTTTGT AAAAGTGTTT TTATAGCTTA AAGAACATAT AAACATGCAC ACATACACAC ACACGATACG TTCACTGAGC TATTGTATGT TATATGTGAG CTAATATGTA ATATATATT AATATATATT ATAAATTGCA</pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>

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.



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RefSeq: [NM_001286106](#), [NM_001286107](#), [NM_001286108](#), [NM_001286111](#), [NM_004849](#), [NR_104402](#), [NR_104403](#)

UniProt ID: [Q9H1Y0](#)

Synonyms: APG5; APG5-LIKE; APG5L; ASP; hAPG5

Summary: The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:

