

Product datasheet for KN202139LP

OriGene Technologies, Inc.

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Granulin (GRN) 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: Granulin Locus ID: 2896

Components: KN202139G1, Granulin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202139G2, Granulin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202139LPD, 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: <u>NM 001012479</u>, <u>NM 002087</u>

UniProt ID: P28799

Synonyms: acrogranin; GEP; GEP, GP88, PEPI, PGRN, PCDGF; GP88; granulin; granulin-epithelin; PC cell-

derived growth factor; PCDGF; PEPI; PGRN; proepithelin; progranulin

Summary: Granulins are a family of secreted, glycosylated peptides that are cleaved from a single

precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The 88 kDa precursor protein, progranulin, is also called proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides. These smaller cleavage products are named granulin A, granulin B, granulin C, etc. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal

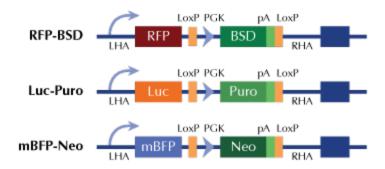
development, wound healing, and tumorigenesis. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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