

## Product datasheet for **KN202139BN**

### Granulin (GRN) Human 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:	Granulin
Locus ID:	2896
Components:	<b>KN202139G1</b> , Granulin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TAAGGCCACCCAGCTCACCA <b>KN202139G2</b> , Granulin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGATGGTCAGTTCTGCCCTG <b>KN202139BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , 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\\_001012479](#), [NM\\_002087](#)

**UniProt ID:** [P28799](#)

**Synonyms:** acrogranin; GEP; GP88, PEPI, PGRN, PCDGF; GP88; granulin; granulin-epithelin; PC cell-derived growth factor; PCDGF; PEPI; PGRN; proepithelin; progranulin



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**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:**
