

Product datasheet for **KN201614LP**

GBA 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: GBA
Locus ID: 2629
Components: **KN201614G1**, GBA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)
KN201614G2, GBA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)
KN201614LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **Luciferase-Puro in green**; **Right arm in violet**

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AGCTCCGGTT CCAACGATC

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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_000157](#), [NM_001005741](#), [NM_001005742](#), [NM_001005749](#), [NM_001005750](#),
[NM_001171811](#), [NM_001171812](#)

UniProt ID:

[P04062](#)

Synonyms:

GBA1; GCB; GLUC

Summary:

This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

Product images:
