

Product datasheet for **KN201614**

GBA 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:	GBA
Locus ID:	2629
Components:	<p>KN201614G1, GBA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGCATTGTCACAGTGCTTC</p> <p>KN201614G2, GBA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTTTTCAAGTCCTTCCAGAG</p> <p>KN201614D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</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

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TAGGGCAAAG ACTGTCTTAA ACATCTTGGT AGTGTCACTA TTTTGCACAG TGAAGTTTTT TTTTTTAAAT
TATATCAGCT TTATTTGTAC CTTTTTGACA TTTCTATCAA AAAAGAAGTG TGCCTGCTGT GGTTCCCATC
CTCTGGGATT TAGGAGCCTC TACCCCATTC TCCATGCAAA TCTGTGTTCT AGGCTCTTCC TAAAGTTGTC
ACCCATACAT GCCCTCCAGA GTTTTATAGG GCATATAATC TGTAACAGAT GAGAGGAAGC CAATTGCCCT
TTAGAAATAT GGCTGTGATT GCCTCACTTC CTGTGTCATG TGACGCTCCT AGTCATCACA TGACCCATCC
ACATCGGGAA GCCGGAATTA CTTGCAGGGC TAACCTAGTG CCTATAGCTA AGGCAGGTAC CTGCATCCTT
GTTTTTGTTC AGTGGATCCT CTATCCTTCA GAGACTCTGG AACCCCTGTG GTCTTCTCTT CATCTAATGA
CCCTGAGGGG TGAATCCTG GCACTGGAAT TTAATGAATG ACAGACTCTC TTTGAATCCA GGGCCATCAT
GGCTCTTTGA GCAAGGCACA GATGGAGGGA GGGGTCGAAG TTGAAATGGG TGGGAAGAGT GGTGGGGAGC
ATCCTGATTT GGGGTGGGCA GAGAGTTGTC ATCAGAAGGG TTGCAGGGAG AGCTGCACCC AGGTTTCTGT
GGGCTTGTG CTAATGAATG TGGGAGACCG GGCCATGGGC ACCCAAAGGC AGCTAAGCCC TGCCAGGAG
AGTAGTTGAG GGTGGAGAG GGGCTTGCTT TTCAGTCATT CCTCATTCTG TCCTCAGGAA TGTCCCAAGC
CTTTGAGTAG GGTAAGCATC ATGGCTGGCA GCCTCACAGG ATTGCTTCTA CTTCAGGCAG TGTCGTGGGC
ATCAGGTGAG TGAGTCAAGG CAGTGGGGAG GTAGCACAGA GCCTCCCTTC TGCCATAGT TCCTTTGGTA
GCCTTCCAGT AAGCTGGTGG
  
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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.



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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:

