

## Product datasheet for **KN206288**

### Ceramide glucosyltransferase (UGCG) 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:	Ceramide glucosyltransferase
Locus ID:	7357
Components:	<b>KN206288G1</b> , Ceramide glucosyltransferase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGTGGCTGATGCATTTCA <b>KN206288G2</b> , Ceramide glucosyltransferase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTTCGGGTTCTCCTCTTCT <b>KN206288D</b> , donor DNA containing left and right homologous arms and GFP-puro functional cassette.

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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TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
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GATAAATCTG GAGCCGGTGA GCGTGGTTCT CGCGGTATCA TTGCAGCACT GGGCCAGATG GGTAAGCCCT
CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC TATGGATGAA CGAAAATAGAC AGATCGCTGA
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**GGGACCGAG** **GAGGGCTCG** **GGCAGGGT** **CGGGCCTCG** **GAGACAGCG** **AGAATGGAA** **ACGTTTGGC**  
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**GATTGTGCTG** **GGGATTCGTG** **TAATTTTCA** **TCTGGGCCGA** **GATGTATGGT** **GTATTGTTT** **TTTCTCCCA**  
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CGTGGTTTTT TTTCTTTTTT ACGAACTGGC AGGTAAGTAC TGACTGGAAA GTCCTCTCCA CTGACTGTAG
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CAGTTGCGCA GCCTGAATGG CGAATGGCGC CTGATGCGGT ATTTTCTCCT TACGCATCTG TCGCGTATT
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GTTACGCGCA GCGTGACCGC TACACTTGCC AGCGCCCTAG CGCCCGCTCC TTTTCGTTTC TTCCCTTCTT
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CACTGCGGCC AACTTACTTC TGACAACGAT CGGAGGACCG AAGGAGCTAA CCGCTTTTTT GCACAACATG
GGGGATCATG TAACTCGCCT T

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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\\_003358](#)

**UniProt ID:**

[Q16739](#)

**Synonyms:**

GCS; GLCT1

**Summary:**

This gene encodes an enzyme that catalyzes the first glycosylation step in the biosynthesis of glycosphingolipids, which are membrane components containing lipid and sugar moieties. The product of this reaction is glucosylceramide, which is the core structure of many glycosphingolipids. [provided by RefSeq, Dec 2014]

Product images:

