

Product datasheet for **KN200717**

MGAT1 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: MGAT1
Locus ID: 4245
Components: **KN200717G1**, MGAT1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGCATTCCAGGCCACAAAG
KN200717G2, MGAT1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCAGAAGAAGAGGAGCAGCA
KN200717D, 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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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_001114617](#), [NM_001114618](#), [NM_001114619](#), [NM_001114620](#), [NM_002406](#),
[NM_001364390](#), [NR_157150](#), [NR_157151](#), [NM_001364379](#), [NM_001364380](#), [NM_001364384](#),
[NM_001364386](#), [NM_001364388](#), [NM_001364391](#), [NM_001364392](#), [NM_001364393](#),
[NM_001364394](#), [NM_001364377](#), [NM_001364381](#), [NM_001364382](#), [NM_001364383](#),
[NM_001364385](#), [NM_001364387](#), [NM_001364389](#), [NM_001364395](#), [NR_157152](#), [NR_157153](#),
[NR_157154](#)

UniProt ID:

[P26572](#)

Synonyms:

GLCNAC-TI; GLCT1; GLYT1; GNT-1; GNT-I; MGAT

Summary:

There are believed to be over 100 different glycosyltransferases involved in the synthesis of protein-bound and lipid-bound oligosaccharides. UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I is a medial-Golgi enzyme essential for the synthesis of hybrid and complex N-glycans. The protein, encoded by a single exon, shows typical features of a type II transmembrane protein. The protein is believed to be essential for normal embryogenesis. Several variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:
