

Product datasheet for **KN302341**

C1galt1c1 Mouse 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:	C1galt1c1
Locus ID:	59048
Components:	<p>KN302341G1, C1galt1c1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGATGGTGATGCTCATGG</p> <p>KN302341G2, C1galt1c1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGATATCTCGAAAATTTTCAG</p> <p>KN302341D, 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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AAAAAGCCAA AAAATGAAAG AAAGAAAGAA AGAAAGAAAG AAAGAAAGAA AGAAAAGAAA GAAGGAAAGA
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GAGTTTAAAT TGAGTATCTG TTCAACTTAC AGGTCTGGAT GTAGAAGCTC TTTTATAATT AGCCAGAAGT
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TACACACACA CACACACACA CACACACACA CTACAAATTC CAATCCTTGA ATGAGTTTCT ATAATGTTGC
AGTTTCGACC CAATGCCAGT GGAAGGATAC TGAGTACTTG TCACAGTATG CTTCTCACCT GATTTTAAGC
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 CGGTGCGCCT CGCCACCCGC GACGACGTC CCAGGGCCGT ACGCACCTC GCCGCCCGT TCGCCGACTA
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 CTCACGCGCG TCGGGCTCGA CATCGGCAAG GTGTGGGTCG CGGACGACGG CGCCGCGGTG GCGGTCTGGA
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 CTACGAGCGG CTCGGCTTCA CCGTCACCGC CGACGTCGAG GTGCCGAAG GACCGCGCAC CTGGTGCATG
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 CAAATTTTAC AAATAAAGCA TTTTTTAC TGCACTTAG TTGTGGTTG TCCAAACTCA TCAATGTATC
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 TATCTGAAGA TAAACAGCTG GCGGTCTGCC TGAATACGC CGGAGATTT GCAGAAAATG CCGAAGATGC
 CGATGAAAA GATGTGTTA ATACCAAATC CGTTGCCTT TTCATTAAG AGGCAATGAC TAACC

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_021550](#)

UniProt ID:

[Q9JMG2](#)

Synonyms:

1500002111Rik; AB030184; C1GalT2; C81205; Cosmc

Summary:

Probable chaperone required for the generation of 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Probably acts as a specific molecular chaperone assisting the folding/stability of core 1 beta-3-galactosyltransferase (C1GALT1) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

