

Product datasheet for **KN306419**

Gfpt1 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:	Gfpt1
Locus ID:	14583
Components:	<p>KN306419G1, Gfpt1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGTGTCAACAGAGCGGCCTT</p> <p>KN306419G2, Gfpt1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTTGTGGAGCGGGCATCCCCG</p> <p>KN306419D, 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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AGTGAGGAAG GCAGGGAGTG GGGCGCTGAG CACCTTGCC TACAGCTCAGG TCGTCACCGG AATGGCTGCC
CGAGGGCGTC CTGCAGGCTC CCGCACCTCT GCGCCAGCAG CGCAGTTCCG GCCACCGTGG CTCTGCACAC
TGACACGTCT GTCCAGGCT CTCCTCCTG CCCTACAGT TTTCTCTCTG TCTCCCTCCT TCCCCTTCCC
CTTGAAACAC ACAAACTGCT GTGTAACAT TCCCTTCTC CTCCTCCTCC GAGGCTCGGC TCGCCCTCAG
CGGGCGGCTC CAGGAACCTA AAGCGGATGC TGGTCGAGCC CCTGCCACGT CGTACCCGG AGCTCTGCGT
CTGCGCGCTG GGC GGGCGAT GCCTGCGCGT GAGCGGGCGG GCGCGGCGCC AATGGGAGAG CCGCGGCGGC
GCGCGTGGCC GGGGGGGGCG GGGCGGCAGT TGAGAGCGAA GCGAGCGCTG AGTCGGACTG TCGGGTCTGA
GCTGTGCGAT CCCAGAGTCC TCTCATTGCC ACCACCCCGG CCCGAGCTCA CCCTCGCTTC TGAAGCTCTC
CGCGCGCCCG ACAGCTCAGC CCTCGCCCGT GACCAACATC GAAAGGCTGC TGTCCGTGAG GCAGGGACTC
TAAGATGGGG ATTCCGGTGT TGAAGGGGCG GCCGGAGCTA GTGTGCTTAA GAGGGACCGG CAGAGGAGAT
TGTGGGGGCC CTAGGAGTCA GAGGCTACTT AAAGGGGCTA GAGGATTGGG GGTGGGGTGG GCCAGGGAGG
GTATCAGAGC GTTCAAGGGG CACCTTTGCA TAGAGCTCAG AGGATAGATG AATACCTACC TTAGAAGAGC
TGTGAGGCTC AAAGTGAGAC CAAGTATGGA GGGATGCCTA GGGGAAGGTC CACCAGTGTA GTGAGGCGAC
CTGTGAACAT GCTGTGTGGT ACTGGGGGTT AAATCATAA AGGCAGCTTG TCAAGTGAGT GAGTACTCTT
TCCCTTAGCC ACACCCCCA AATCCCTTT TTCTGTCTCT TTGTAAGTGG GTCCCACTTG GTAGCCAGG
TTGGCCTGTA ATTCACATTG CCCTGTCTCA GCCTTCCAAG TGTTGTGATT ATAAGTATGA ATGACCACTC
CTGGCTGTA GCATTTCTTG AATTTACTTA TCTTGACGTC TTA AAAAATAC TTAATTCTAG TCACCTTATT
TTAGGCAGGC

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GE100003, scramble sequence in pCas-Guide vector



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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_013528](#)

UniProt ID: [P47856](#)

Synonyms: 2810423A18Rik; AI324119; AI449986; GFA; GFAT; GFAT1; GFAT1m; Gfpt

Summary: Controls the flux of glucose into the hexosamine pathway. Most likely involved in regulating the availability of precursors for N- and O-linked glycosylation of proteins. Regulates the circadian expression of clock genes ARNTL/BMAL1 and CRY1.[UniProtKB/Swiss-Prot Function]

Product images:

