

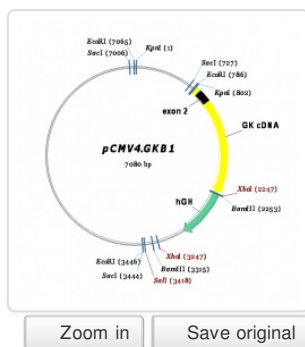
This plasmid will express the islet isoform of glucokinase in eukaryotic cell lines. It contains a rat glucokinase cDNA (islet isoform) cloned into *pCMV4*, a plasmid that drives expression from using a cytomegalovirus promoter, a translational augmenter from alfalfa mosaic virus and 3' splice and polyadenylation signals from human growth hormone gene.

Keywords: [rat](#) [islet](#) [glucokinase](#) [expression](#)

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Vector Annotations

Vector Map



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Publications / Citations

1. Effects of alternate RNA splicing on glucokinase isoform activities in the pancreatic islet, liver, and pituitary. Liang Y, Jetton TL, Zimmerman EC, Najafi H, Matschinsky FM, Magnuson MA (1991) *J Biol Chem* **266**(11): 6999-7007
 > Primary publication · [2016311](#) (PubMed) · Added on 1/16/2014

Genbank File [pCMV4.GKB1.gb](#)

Backbone Vector pCMV4

Construct Size 7,080 bp (approximate)

Bacterial Stock No

Storage Temperature -20°C

Stock Concentration 0.1 µg/µL

Addgene *Not Provided*

Source

Laboratory Mark Magnuson

Made by Kathy Shelton

Stock Date December 19, 2008

MeSH Terms

Animals Base Sequence Cell Line Exons
 Glucokinase Hexokinase Islets of Langerhans
 Isoenzymes Liver Mice Molecular Sequence Data
 Mutagenesis, Insertional Mutagenesis, Site-Directed
 Oligonucleotide Probes Pituitary Gland
 Polymerase Chain Reaction Rats Restriction Mapping
 RNA, Messenger RNA Splicing
 Sequence Homology, Nucleic Acid Transfection