

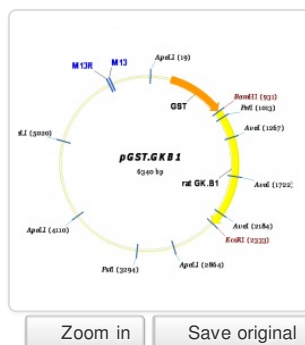
The expression vector pGEX-3X was used for eukaryotic expression of a glucokinase (gk) cDNA fragment from pGK.B1. A rat gk cDNA fragment with an upstream BamHI site and a downstream EcoRI site was generated by linker-primer PCR and ligated into pGEX-3X. The plasmid is referred to as both pGST.GKB1 and pGEX.GKB1.

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

Expand

Vector Annotations

Vector Map



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

Backbone Vector pGEX-3X

Construct Size 6,340 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 23, 2008

Inventory Location

Private

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

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