

## Product datasheet for **TP507435**

### Gck (BC011139) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse glucokinase (cDNA clone MGC:18414 IMAGE:4195943), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207435 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAVDTRRGAQSLTLVEQILAEFQLQEEDLKKVMSRMQKEMDRGLKLETHQEASVKMLPTYVRSTPEGSE  
VGDFLSLDLGGTNFRVMLVKVGEAGQWSVTKKHQMYSIPEDAMTGTAEMLFDYISECISDFLDKHKQMK  
HKKLPLGFTFSFPVRHEDIDKGILLNWTGFKASGAEGNNIVGLLRDAIKRRGDFEMDVVAMVNDTVATM  
ISCYEDRQCEVGMIVGTGCNACYMEEMQNVELVEGDEGRMCVNTEWGAFGNSGELDEFLEDRMVDES  
SVNPGQQLYEKIIGGKYMGEVLVRLVLLKLVEENLLFHGEASEQLRTRGAFETRFVSQVESDSGDRRQILN  
ILSTLGLRPSVADCDIVRRACESVSTRAAHMCSAGLAGVINRMRESRSEDVMRITVGVDGGSVYKLNHPSFK  
ERFHASVRRRLTPNCEITFIESEEGSGRGAALVSAVACKKACMLGQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	51.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	103988
UniProt ID:	<u>P52792</u>



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RefSeq Size:	1798
Cytogenetics:	11 3.88 cM
RefSeq ORF:	1395
Synonyms:	GLK, Gk, HK4, HKIV, HXKP, MODY2, NIDDM
Summary:	Catalyzes the initial step in utilization of glucose by the beta-cell and liver at physiological glucose concentration. Pancreatic glucokinase plays an important role in modulating insulin secretion. Hepatic glucokinase helps to facilitate the uptake and conversion of glucose by acting as an insulin-sensitive determinant of hepatic glucose usage.[UniProtKB/Swiss-Prot Function]