

## Recombinant Human PFKFB3, GST-tagged

Cat. No. PFKFB3-82912TH Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Product Overview</b>	Recombinant human PFKFB3 partial ORF ( 412 a.a. - 520 a.a.) fused with a GST-tag at N-terminal was expressed in wheat germ and purified by Glutathione Sepharose.
<b>Description</b>	PFKM is regulatory glycolytic enzymes that convert fructose 6-phosphate and ATP into fructose 1,6-bisphosphate (through PFK-1), fructose 2,6-bisphosphate (through PFK-2) and ADP. Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease.
<b>Molecular Mass</b>	37.73 kDa
<b>AA-Sequence</b>	CPLHTVLKLTVPVAYGCRVESIYLNVESVCTHRERSEDAKKGNPLMRRNSVTPLASP EPTKKPRINSFEEHVASTSAALPSCLPPEVPTQLPGQNMKGSRSSADSSRKH
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH8.0 in the elution buffer.
<b>Applications</b>	ELISA; WB
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Official symbol</b>	PFKFB3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

**Gene Name** PFKFB3 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [ Homo sapiens ]

**Synonyms** 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3; 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase; Renal carcinoma antigen NY-REN-56; FLJ37326; 6PF-2-K/Fru-2,6-P2ase 3; OTTHUMP00000019041; 6PF-2-K/Fru-2,6-P2ase brain/placenta-type isozyme; OTTHUMP00000019044; iPFK-2; OTTHUMP00000019048; PFK/FBPase 3; PFK2; IPFK2; fructose-6-phosphate,2-kinase/fructose-2, 6-bisphosphatase; 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase; OTTHUMP00000019052; inducible 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; OTTHUMP00000019039; OTTHUMP00000019040; OTTHUMP00000019045; OTTHUMP00000019046; OTTHUMP00000019047; OTTHUMP00000019050

**Gene ID** 5209

**mRNA Refseq** NM\_001145443

**Protein Refseq** NP\_001138915

**MIM** 605319

**UniProt ID** Q5VX15

**Chromosome Location** 10p15.1

**Pathway** AMPK signaling, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-

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specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem

**Function**

6-phosphofructo-2-kinase activity; 6-phosphofructo-2-kinase activity; ATP binding; catalytic activity; fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity; identical protein binding; kinase activity; nucleotide binding; protein binding; transferase activity

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