

## Product datasheet for **KN206043LP**

### PFKFB3 Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	PFKFB3
Locus ID:	5209
Components:	<p><b>KN206043G1</b>, PFKFB3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN206043G2</b>, PFKFB3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN206043LPD</b>, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
RefSeq:	<p><a href="#">NM_001145443</a>, <a href="#">NM_001282630</a>, <a href="#">NM_001314063</a>, <a href="#">NM_001323016</a>, <a href="#">NM_001323017</a>,  <a href="#">NM_004566</a>, <a href="#">NR_136554</a>, <a href="#">NM_001363545</a></p>
UniProt ID:	<a href="#">Q16875</a>
Synonyms:	iPFK-2; IPFK2; PFK2
Summary:	<p>The protein encoded by this gene belongs to a family of bifunctional proteins that are involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate (F2,6BP), and a fructose-2,6-bisphosphatase activity that catalyzes the degradation of F2,6BP. This protein is required for cell cycle progression and prevention of apoptosis. It functions as a regulator of cyclin-dependent kinase 1, linking glucose metabolism to cell proliferation and survival in tumor cells. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2016]</p>



[View online »](#)

## Product images:

