

## Product datasheet for **KN200673**

### PFKP Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	PFKP
Locus ID:	5214
Components:	<p><b>KN200673G1</b>, PFKP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGGCGTGCTGACCAGCGGCG</p> <p><b>KN200673G2</b>, PFKP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACGACTCCCGGGCCCCCAA</p> <p><b>KN200673D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

#### Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
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**TCCCGCGCGC GAGGGAGGGA CGGACGGACG GAGCTGGGGA GAACCGGGCG AAGGCGATGG GGTGACCGGA**  
**GAGAAGAGGG GGAAGCGAT GGGGGGACC CGGGAAAGG TGGCGAAGCG ATGGGGAGAA CCGGGGAGAA**  
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 GTTGCGCTCA CTGCCCGCTT TCCAGTCGGG AAACCTGTGC TGCCAGCTGC ATTAATGAAT CGGCCAACGC  
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 TTCGGCTGCG GCGAGCGGTA TCAGCTCACT CAAAGGCGGT AATACGGTTA TCCACAGAAT CAGGGGATAA  
 CGCAGGAAAG AACATGTGAG CAAAAGGCCA GCAAAAGGCC AGGAACCGTA AAAAGGCCGC GTTGCTGGCG  
 TTTTTCCATA GGCTCCGCC CCCTGACGAG CATCACAAAA ATCGACGCTC AAGTCAGAGG TGCGGAAACC  
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 CTTAATCAGT GAGGCACCTA TCTCAGCGAT CTGTCTATTT CGTTCATCCA TAGTTGCCTG ACTCCCCGTC  
 GTGTAGATAA CTACGATACG GGAGGGCTTA CCATCTGGCC CCAGTGCTGC AATGATACCG CGAGAACCAC  
 GCTCACCCGC TCCAGATTTA TCAGCAATAA ACCAGCCAGC CGGAAGGGCC GAGCGCAGAA GTGGTCTCTGC  
 AACTTTATCC GCCTCCATCC AGTCTATTAA TTGTTGCCGG GAAGCTAGAG TAAGTAGTTC GCCAGTTAAT  
 AGTTTGCGCA ACGTTGTTGC CATTGCTACA GGCATCGTGG TGTCACGCTC GTCGTTTGGT ATGGCTTCAT  
 TCAGCTCCGG TTCCAACGA TC

**GE100003**, scramble sequence in pCas-Guide vector

**Disclaimer:**

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:**

[NM\\_001242339](#), [NM\\_002627](#), [NM\\_001323067](#), [NM\\_001323068](#), [NM\\_001323069](#),  
[NM\\_001323070](#), [NM\\_001323071](#), [NM\\_001323072](#), [NM\\_001323073](#), [NM\\_001323074](#),  
[NM\\_001345944](#)

**UniProt ID:**

[Q01813](#)

**Synonyms:**

ATP-PFK; PFK-C; PFK-P; PFKF

**Summary:**

This gene encodes a member of the phosphofructokinase A protein family. The encoded enzyme is the platelet-specific isoform of phosphofructokinase and plays a key role in glycolysis regulation. This gene may play a role in metabolic reprogramming in some cancers, including clear cell renal cell carcinomas, and cancer of the bladder, breast, and lung. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:

