

## Product datasheet for **KN219839BN**

### FAK (PTK2) Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control  
**Donor DNA:** mBFP-Neo  
**Symbol:** FAK  
**Locus ID:** 5747  
**Components:** **KN219839G1**, FAK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN219839G2**, FAK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN219839BND**, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.

Homologous arm and mBFP-Neo sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **mBFP-Neo in green**; **Right arm in violet**

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 TCCGGTTCAC AACGATC

**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\\_001199649](#), [NM\\_001316342](#), [NM\\_005607](#), [NM\\_153831](#), [NM\\_001352694](#), [NM\\_001352695](#),  
[NM\\_001352696](#), [NM\\_001352697](#), [NM\\_001352698](#), [NM\\_001352699](#), [NM\\_001352700](#),  
[NM\\_001352701](#), [NM\\_001352702](#), [NM\\_001352703](#), [NM\\_001352704](#), [NM\\_001352705](#),  
[NM\\_001352706](#), [NM\\_001352707](#), [NM\\_001352708](#), [NM\\_001352709](#), [NM\\_001352710](#),  
[NM\\_001352711](#), [NM\\_001352712](#), [NM\\_001352713](#), [NM\\_001352714](#), [NM\\_001352715](#),  
[NM\\_001352716](#), [NM\\_001352717](#), [NM\\_001352718](#), [NM\\_001352719](#), [NM\\_001352720](#),  
[NM\\_001352721](#), [NM\\_001352722](#), [NM\\_001352723](#), [NM\\_001352724](#), [NM\\_001352725](#),  
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[NM\\_001352731](#), [NM\\_001352732](#), [NM\\_001352733](#), [NM\\_001352734](#), [NM\\_001352735](#),  
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[NM\\_001352746](#), [NM\\_001352747](#), [NM\\_001352748](#), [NM\\_001352749](#), [NM\\_001352750](#),  
[NM\\_001352751](#), [NM\\_001352752](#), [NR\\_148036](#), [NR\\_148037](#), [NR\\_148038](#), [NR\\_148039](#)

**UniProt ID:**

[Q05397](#)

**Synonyms:**

FADK; FAK; FAK1; FRNK; p125FAK; pp125FAK; PPP1R71

**Summary:**

This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2017]

**Product images:**
