

Product datasheet for **KN219839**

FAK (PTK2) 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:	FAK
Locus ID:	5747
Components:	<p>KN219839G1, FAK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGGGCAATTGCTTGAACCT</p> <p>KN219839G2, FAK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGAGTGGAGTGGCATGATCT</p> <p>KN219839D, 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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AGGGCCACTT TTCATCGCCA CCTGGGGTAG CTTGCCAGCA CATGTTTACC TTTGGTTTGG GATCACAGCA
AGCAGAAGAG ATGAAAGCTC CCTTTAACCG TTCTAGGATA TGTATTTGAA TTGGAGAAAC TACCTCAAAA
TAGAGTGTGT GCAGGCACTA TATGAAGGCT TCTCAGCGTT TAAGTGCATA CATGCCACCC AGGGATCTCG
TTATATTTTA AGTTCCAATT CAGTCTGTCT GGAAGGGCT CAGACTTGCA TTTTTCCTAA GTTCCCAGGT
GATGCCAGGG CTGGTGGTCT GTGGACCATA CTTGGAGTAG CTAGGCATTG GTTTTCAAAG TGTGGGTTGC
AAGGTGGCAC TGAGTCTTAG TTTGAAAGTT GAATAACCAC TGTTGATTGC GGTAGTTAAG GGCATGGAGT
TGGGGTCAGA ATCCTGGCTC TATGATCTTG GGCTTGTG TTAAGTTTTC TAATCTCTAT TTCCTTGTGT
GGCATGTGAT TGTACTACAT GATTATGTAA TGCTTAGTCT TTTTTTTTTG TTTTTTTTTG AGACAGAGTC
TTGCTGTGTC ACCCAGGCTG CCAGGCTGGA GTGGAGTGGC CTCTCTCTAG GACAGTGATG AACCCAGCCTT
CTTGACTGAG AGGAATACAC CATCCGTCTT CATAAAGACT GGCAGGCACA TGGACAAGTT TACCAGTTAT
AATGCTTTTC TTACACATTA AAGAAGTAGG TGTTTGTATT GGGGCTTCAA CAAGGACTTG GAAAACTTTA
AGATAATACA ACTACATAGT ATTCCTTTAG GTGAATATCG TTTCAGTTTC TCAGATCATT GATGAAAGCC
TTAACAAAGA TTTTTTTTTT TTTTTTTTTT TTGAGATGGA GTCTTACTCT GTTGCCAGG CTGAAGTGCA
TGATCTTGGC TACTGCAAC CTTACCTCC TGGGTTCAAG CAATTCTCCT GCCTCAGCCT TCCGAGTAGC
TGGGATTACA GGCACCTGTC ACCATGTGTG GCTAATTTTT GCATTTTITAG TAGAGACAGG GTTTTGCTCT
GTTGGCCAGG CTGGTCTCAA ACTCCTGACC TCAGAAGATC CGCCTGCCTT GGCCTCCCAA AGTGCTGGGA
TTGCAGGTGT GAGCCACCAC ACCCGGCCTA GATTTTAAAA TAAGCATCTG TTTGTTTCTT TTTTATGTTG
CCACTAGTAA

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GE100003, scramble sequence in pCas-Guide vector



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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 , NM_001352726 , NM_001352727 , NM_001352728 , NM_001352729 , NM_001352730 , NM_001352731 , NM_001352732 , NM_001352733 , NM_001352734 , NM_001352735 , NM_001352736 , NM_001352737 , NM_001352738 , NM_001352739 , NM_001352740 , NM_001352741 , NM_001352742 , NM_001352743 , NM_001352744 , NM_001352745 , 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:

