

Product datasheet for **KN419839**

FAK (PTK2) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 linear donor
Donor DNA:	EF1a-GFP-P2A-Puro
Symbol:	FAK
Locus ID:	5747



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Components:
KN419839G1, FAK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN419839G2, FAK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN419839D, Linear donor DNA containing LoxP-EF1a-tGFP-P2A-Puro-LoxP:

The sequence below is cassette sequence only. The linear donor DNA also contains proprietary target sequence.

LoxP-EF1a-tGFP-P2A-Puro-LoxP (2739 bp)

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ATAACTTCGT ATAATGTATG CTATACGAAG TTATCGTGAG GCTCCGGTGC CCGTCAGTGG GCAGAGCGCA
CATCGCCAC AGTCCCCGAG AAGTTGGGG GAGGGGTCGG CAATTGAACC GGTGCCTAGA GAAGGTGGCG
CGGGGTAAC TGGGAAAGTG ATGTCGTGTA CTGGCTCCGC CTTTTCCCG AGGGTGGGG AGAACCCTAT
ATAAGTCAG TAGTCGCCGT GAACGTTCTT TTTCCGAACG GGTTCGCCG CAGAACACAG GTAAGTGCCG
TGTGTGGTTC CCGCGGGCCT GGCCTCTTTA CGGGTTATGG CCCTTGCGTG CCTTGAATTA CTTCCACCTG
GCTGCAGTAC GTGATTCTTG ATCCCGAGCT TCGGGTTGGA AGTGGGTGGG AGAGTTCGAG GCCTTGCGCT
TAAGGAGCCC CTTCGCCTCG TGCTTGAGTT GAGGCCTGGC CTGGGCGCTG GGGCCCGCG GTGCGAATCT
GGTGGCACCT TCGCGCCTGT CTCGCTGCTT TCGATAAGTC TCTAGCCATT TAAAATTTT GATGACCTGC
TGCAGCGCTT TTTTCTGGC AAGATAGTCT TGTAATGCG GGCCAAGATC TGCACACTGG TATTTTCGTT
TTTGGGGCCG CGGGCGGCGA CGGGGCCCGT GCGTCCCAGC GCACATGTTC GGCAGGCGG GGCCTGCGAG
CGCGGCCACC GAGAATCGGA CGGGGGTAGT CTCAAGCTGG CCGGCCTGCT CTGGTGCCTG GCCTCGCGCC
GCCGTGTATC GCCCGCCCT GGGCGGCAAG GCTGGCCCGG TCGGCACCAG TTGCGTGAGC GGAAAGATGG
CCGCTTCCCG GCCCTGTGC AGGGAGCTCA AAATGGAGGA CGCGGCGCTC GGGAGAGCGG GCGGGTGAAGT
CACCCACACA AAGGAAAAGG GCCTTCCCGT CCTCAGCCGT CGCTTCATGT GACTCCACGG AGTACCGGGC
GCCGTCAGG CACCTCGATT AGTTCTCGAG CTTTTGGAGT ACGTCGTCTT TAGTTGGGG GGAGGGGTTT
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TTTTTTCTT CCATTTCAAG TGTCGTGAAT GGAGAGCGAC GAGAGCGGCC TGCCCGCCAT GGAGATCGAG
TGCCGCATCA CCGGCACCCT GAACGGCGTG GAGTTCGAGC TGGTGGGCGG CGGAGAGGGC ACCCCCGAGC
AGGGCCGCAT GACCAACAAG ATGAAGAGCA CCAAAGGCGC CCTGACCTTC AGCCCTACC TGCTGAGCCA
CGTGATGGG TACGGCTTCT ACCACTTCGG CACCTACCCC AGCGGCTACG AGAACCCCTT CCTGCACGCC
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ACAGCCACAT GCACTTCAAG AGCGCCATCC ACCCCAGCAT CCTGCAGAAC GGGGGCCCA TGTTCCCTT
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GAAGCCCTCC TGCGCCGCA CCGGCCAAG GAGCCCGCT GTTTCCTGGC CACCCTCGGC GTCTCGCCG
ACCACCAGG CAAGGTCTG GGCAGCGCG TCGTGTCCC CGGAGTGGAG GCGGCCGAGC GCGCCGGGT
GCCCGCTTC CTGGAGACT CCGCGCCCG CAACCTCCC TTCTACGAGC GGCTCGGCT CACCGTCACC
GCCGACGTC AGGTGCCGA AGGACCGCG ACCTGGTGA TGACCCGCA GCCCGGTGCC TGAAACTTGT
TTATTGCAGC TTATAATGGT TACAAATAA GCAATAGCAT CACAAATTC ACAAATAAG CATTTTTTTC
ACTGCATTCT AGTTGTGGT TGTCAAAC CATCAATGA TCTTAATAAC TTCGTATAAT GTATGTATA CGAAGTTAT
    
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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:	<u>NM_001199649</u> , <u>NM_001316342</u> , <u>NM_005607</u> , <u>NM_153831</u> , <u>NM_001352694</u> , <u>NM_001352695</u> , <u>NM_001352696</u> , <u>NM_001352697</u> , <u>NM_001352698</u> , <u>NM_001352699</u> , <u>NM_001352700</u> , <u>NM_001352701</u> , <u>NM_001352702</u> , <u>NM_001352703</u> , <u>NM_001352704</u> , <u>NM_001352705</u> , <u>NM_001352706</u> , <u>NM_001352707</u> , <u>NM_001352708</u> , <u>NM_001352709</u> , <u>NM_001352710</u> , <u>NM_001352711</u> , <u>NM_001352712</u> , <u>NM_001352713</u> , <u>NM_001352714</u> , <u>NM_001352715</u> , <u>NM_001352716</u> , <u>NM_001352717</u> , <u>NM_001352718</u> , <u>NM_001352719</u> , <u>NM_001352720</u> , <u>NM_001352721</u> , <u>NM_001352722</u> , <u>NM_001352723</u> , <u>NM_001352724</u> , <u>NM_001352725</u> , <u>NM_001352726</u> , <u>NM_001352727</u> , <u>NM_001352728</u> , <u>NM_001352729</u> , <u>NM_001352730</u> , <u>NM_001352731</u> , <u>NM_001352732</u> , <u>NM_001352733</u> , <u>NM_001352734</u> , <u>NM_001352735</u> , <u>NM_001352736</u> , <u>NM_001352737</u> , <u>NM_001352738</u> , <u>NM_001352739</u> , <u>NM_001352740</u> , <u>NM_001352741</u> , <u>NM_001352742</u> , <u>NM_001352743</u> , <u>NM_001352744</u> , <u>NM_001352745</u> , <u>NM_001352746</u> , <u>NM_001352747</u> , <u>NM_001352748</u> , <u>NM_001352749</u> , <u>NM_001352750</u> , <u>NM_001352751</u> , <u>NM_001352752</u> , <u>NR_148036</u> , <u>NR_148037</u> , <u>NR_148038</u> , <u>NR_148039</u>
UniProt ID:	<u>Q05397</u>
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:

