

Product datasheet for **SC331334**

FAK (PTK2) (NM_001199649) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAK (PTK2) (NM_001199649) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTK2
Synonyms:	FADK; FADK 1; FAK; FAK1; FRNK; p125FAK; pp125FAK; PPP1R71
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

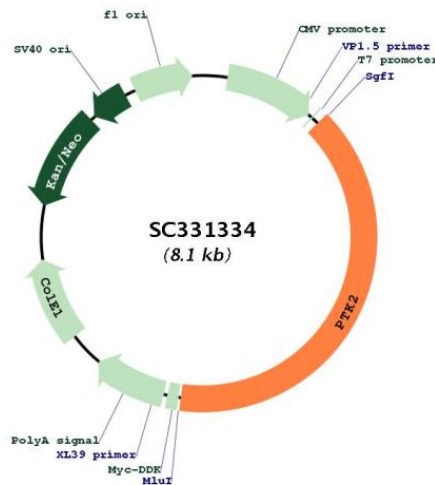
Fully Sequenced ORF: >SC331334 representing NM_001199649.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGCAGCTGCTTACCTTGACCCCAACTGAATCACACACCAAATTCGAGTACTAAGACTCACCTGGGT
ACTGGTATGGAACGTTCTCCTGGTGCAATGGAGCGAGTATTAAGGTCTTTCATTATTTTGAAGCAAT
AGTGAGCCAACCACCTGGGCCAGTATTATCAGGCATGGAGATGCTACTGATGTCAGGGCCATCATTGAG
AAGATAGTGGACAGTACAAAAGTAAAGCATGTGGCCTGCTATGGATTCCGCCTCAGTACCTGCGGTCA
GAGGAGGTTCACTGGCTTACAGTGGATATGGGCGTCTCCAGTGTGAGGGAGAAGTATGAGCTTGCTCAC
CCACCAGAGGAGTGAAAATATGAATTGAGAATTCGTTATTTGCCAAAAGGATTTCTAAACCAGTTTACT
GAAGATAAGCCAACCTTTGAATTTCTTCTATCAACAGGTGAAGAGCGATTATATGTTAGAGATAGCTGAT
CAAGTGGACCAGGAAATGCTTTGAAGTTGGGTTGTCTAGAAATACGGCGATCATACTGGGAGATGCGG
GGCAATGCACTAGAAAAGAAGTCTAACTATGAAGTATTAGAAAAAGATGTTGGTTTAAAGCGATTTTTT
CCTAAGAGTTTACTGGATTCTGTCAAGGCCAAAACACTAAGAAAAGTATGCAACAAACATTTAGACAA
TTTGCCAACTTAAATAGAGAAGAAAGTATTCTGAAATTTCTTGAGATCCTGTCTCCAGTCTACAGATTT
GATAAGGAATGCTCAAGTGTGCTCTTGGTTCAAGCTGGATTATTTCAAGTGGAACTGGCAATCGGCCCA
GAAGAAGGAATCAGTTACCTAACGGACAAGGGCTGCAATCCCACACATCTTGCTGACTTCACTCAAGTG
CAAACCATTCAAGTATTCAAACAGTGAAGACAAGGACAGAAAAGGAATGCTACAACAAAAATAGCAGGT
GCACCCGAGCCTCTGACAGTACAGGCACCATCCCTAACCATTTGCGGAGAAATATGGCTGACCTAATAGAT
GGTACTGCCGGCTGGTGAATGGAACCTCGCAGTCAATTTATCATCAGACCTCAGAAAAGAGGTGAACGG
GCTTTGCCATCAATACCAAAGTTGGCCAACAGCGAAAAGCAAGGCATGCGGACACACGCCGTCTCTGTG
TCAGAAACAGATGATTATGCTGAGATTATAGATGAAGAAGATACTTACCCATGCCCTCAACCAGGGAT
TATGAGATTCAAAGAGAAAAGAAATAGAAGTGGACAGTGTATTGGAGAAGGCCAATTTGGAGATGTACAT
CAAGGCATTTATATGAGTCCAGAGAATCCAGCTTTGGCGTTGCAATTAACATGTAACAACTGTAACAACTACT
TCGGACAGCGTGTAGAGAGAAAATTTCTCAAGAAGCCTTAACAATGCGTCAGTTTGACCATCCTCATTAT
GTGAAGCTGATTGGAGTATCACAGAGAATCCTGTCTGGATAATCATGGAGCTGTGCACACTTGGAGAG
CTGAGGTCATTTTTGCAAGTAAGGAAATACAGTTTGGATCTAGCATCTTTGATCCTGTATGCCTATCAG
CTTAGTACAGCTCTTGCAATCTAGAGAGCAAAAGATTTGTACACAGGGACATTGCTGCTCGAATGTT
CTGGTGTCTCAAATGATTGTGTAAAATAGGAGACTTTGGATTATCCCGATATATGGAAGATAGTACT
TACTACAAAGCTTCAAAGGAAAATGCCTATTAATGGATGGCTCCAGAGTCAATCAATTTTCGACGT
TTTACCTCAGCTAGTGACGTATGGATGTTTGGTGTGTATGTGGGAGATACTGATGCATGGTGTGAAG
CCTTTTCAAGGAGTGAAGAAACAATGATGTAATCGGTGCAATGAAAATGGGAAAAGATTACCAATGCCT
CCAAATGTCCTCTACCCTCTACAGCCTTATGACGAAATGCTGGGCCTATGACCCACGAGCGGCCCC
AGGTTTACTGAACTTAAAGCTCAGCTCAGCACAATCCTGGAGGAAGAGAAGGCTCAGCAAGAAGAGCGC
ATGAGGATGGAGTCCAGAAGACAGGCCACAGTGTCTGGGACTCCGGAGGGTCTGATGAAGCACCGCC
AAGCCCAGCAGACCGGTTATCCAGTCCGAGGTCCAGCGAAGGATTTTATCCAGCCCACAGCAGATG
GTACAAACCAATCATTACCAGGTTTCTGGCTACCTGGTTCACATGGAATCACAGCCATGGCTGGCAGC
ATCTATCCAGGTCAGGCATCTCTTTGGACCAACAGATTCATGGAATCATAGACCTCAGGAGATAGCA
ATGTGGCAGCCCAATGTGGAGGACTCTACAGTATTGGACCTGCGAGGGATTGGGCAAGTGTGCCAAC
CATCTGATGGAAGAGCGTCTAATCCGACAGCAACAGGAAATGGAAGAAGATCAGCGCTGGTGAAAAA
GAGGAAAAGATTTCTGAAACCTGATGTGAGACTCTCTCGAGGCAGTATTGACAGGGAGGATGGAAGTCTT
CAGGGTCCGATTGAAAACCAACATATATATCAGCCTGTGGGTAACCAGGTAAAGAAAGAAAAGAAATTGG
GCGGAAAAGAAATCCTGCAGCTCCACCAAGAAACCGCCTCGCCCTGGAGCTCCCGGTCTCTGGGAAGC
CTTGCCAGCCTCAGCAGCCCTGCTGACAGCTACAACGAGGGTGTCAAGCCATGGAGGCTTCCAGCCCAG
GAAATCAGCCCCCTCTACTGCCAACCTGGACCGGTGCAATGATAAGGTGTACGAGAATGTGACGGGC
CTGGTGAAGCTGTCATCGAGATGTCCAGTAAAATCCAGCCAGCCCCACCAGAGGAGTATGTCCCTATG
GTGAAGGAAGTCGGCTTGGCCCTGAGGACATTATTGGCCACTGTGGATGAGACCATTCCCCTCTACCA
GCCAGCACCACCGAGAGATTGAGATGGCACAGAAGCTATTGAACTCTGACCTGGGTGAGCTCATCAAC
AAGATGAAACTGGCCAGCAGTATGTATGACAGCCTCCAGCAAGAGTACAAAAAGCAAAATGCTGACT
GCTGCTACGCCCTGGCTGTGGATGCCAAAACCTTACTCGATGTCATTGACCAAGCAAGACTGAAAATG
CTTGGGACAGACGAGACCACATGA
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001199649

Insert Size: 3198 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001199649.1](#)

RefSeq Size: 4600 bp

RefSeq ORF: 3198 bp

Locus ID: 5747

UniProt ID: [Q05397](#)

Cytogenetics: 8q24.3

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways:	Axon guidance, Chemokine signaling pathway, ErbB signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer, VEGF signaling pathway
MW:	120.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence, and contains two additional in-frame segments near the 3' end of the coding sequence, compared to variant 2. The resulting isoform (c) is shorter at the N-terminus and contains two additional segments in the C-terminus compared to isoform b.</p>