

Product datasheet for **MC217730**

Pftk1 (BC068134) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pftk1 (BC068134) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pftk1
Synonyms: mKIAA0834; Pftk1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >BC068134
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTACCCGGAAGTCCAGGGGACAGATTTCAGTGATCAAGCACCTGGACACAATTCCTGAAGACAAGA
AAGTCAGGGTTCAGAGGACGCAGAGCACTTTTGACCCATTTGAGAAACCAGCCAACCAAGTCAAAAGGGT
CCATTCTGAGAACAATGCATGCATTAACATTTAAATCCTCCTCTGCTGGCAAAGAGTCACCTAAAGTTCGG
CGGCACTCCAGCCCAGCTCGCCAACGAGTCCCAAATTTGGAAAAGCTGACTCATACGAAAACTGGAAA
AACTGGGGGAAGGATCTTATGCAACAGTGTACAAAGGGAAAAGCAAAGTGAATGGGAAGCTGGTGGCTCT
AAAGGTGATCCGGCTGCAGGAAGAAGAGGGCACACCTTTCACAGCCATCAGGGAAGCTTCCCTGTTGAAA
GGACTAAAGCACGCCAACATCGTGTGCTTACGACATCATCCACTAAGGAAACCTGACCTTGTCT
TTGAATACGTGCACACTGATTTATGTCAGTACATGGACAAGCACCTGGAGGACTCCATCCAGATAATGT
GAAGTTGTTTTATTTTCAGCTGCTGCGAGGACTGTCTTACATCCACCAGCGTTATATTTTGCACAGAGAC
CTGAAACCGCAGAACCTTCTCATCAGCGATACGGGGAGTTGAAGCTGGCAGATTTCCGGTCTGGCAAGAG
CAAAATCCGTCCTAGCCACACATACTCCAATGAAGTGGTTACCTTGTGGTACAGACCTCCAGATGTTCT
TCTGGGCTCTACAGAATATTTCCACTGCCTTGACATGTGGGGAGTTGGCTGTATCTTCGTTGAGATGATC
CAAGGAGTTGCTGCGTTTTCCAGGAATGAAAGACATTCAGGATCAACTGAAACGGATATTTCTGGTCTTG
GAACACCGAATGAGGACACGTGGCCTGGAGTTCATTCTTTACCACATTTTAAAGCCAGAACGCTTTACCGT
GTACAGCTCTAAAAGCCTTAGACAAGCATGGAATAAGCTCAGCTATGTAATCATGCTGAAGACTTGGCC
TCCAAGCTTCTCCAGTGTCCCCAAAGAACAGGCTATCAGCACAGGCCGCTTGAGCCATGAGTATTTCA
GCGATCTGCTCCACGGCTATGGAGCTGACTGATATGTCTTCTATTTTTACCGTCCCAAATGTGAGATT
GCAACCAGAAGCTGGAGAGAGCATGAGGGCCTTTGGAAAAACAATAGTTATGGGAAAAGCCTATCGAAC
AGCAAACACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	BC068134
Insert Size:	1272 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:	<ol style="list-style-type: none">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:	<u>BC068134</u> , <u>AAH68134</u>
RefSeq Size:	5127 bp
RefSeq ORF:	1271 bp
Locus ID:	18647
Cytogenetics:	5 2.61 cM
Gene Summary:	Serine/threonine-protein kinase involved in the control of the eukaryotic cell cycle, whose activity is controlled by an associated cyclin. Acts as a cell-cycle regulator of Wnt signaling pathway during G2/M phase by mediating the phosphorylation of LRP6 at 'Ser-1490', leading to the activation of the Wnt signaling pathway. Acts as a regulator of cell cycle progression and cell proliferation via its interaction with CCDN3. Phosphorylates RB1 in vitro, however the relevance of such result remains to be confirmed in vivo. May also play a role in meiosis, neuron differentiation and may indirectly act as a negative regulator of insulin-responsive glucose transport (By similarity).[UniProtKB/Swiss-Prot Function]