

Product datasheet for **MG206736**

Pftk1 (BC068134) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pftk1 (BC068134) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pftk1
Synonyms:	mKIAA0834; Pftk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206736 representing BC068134 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTACCCGGAAGTCCAGGGGACAGATTCAGTGATCAAGCACCTGGACACAATTCCTGAAGACAAGA
AAGTCAGGGTTCAGAGGACGCAGAGCACTTTTGACCCATTTGAGAAACCAGCCAACCAAGTCAAAGGGT
CCATTCTGAGACAATGCATGCATTAACTTAAATCCTCCTCTGTGGCAAAGAGTACACAAAGTTCGG
CGGCACCCAGCCCCAGCTCGCCAACGAGTCCCAAATTTGGAAAAGCTGACTCATACGAAAACTGGAAA
AACTGGGGGAAGGATCTTATGCAACAGTGTACAAAGGGAAAAGCAAAGTGAATGGGAAGCTGGTGGCTCT
AAAGGTGATCCGGCTGCAGGAAGAAGAGGGCACACCTTTCACAGCCATCAGGGAAGCTTCCCTGTTGAAA
GGACTAAAGCACGCCAACATCGTGTGCTTACGACATCATCCACACTAAGGAAAACCTGACCCCTGTCT
TTGAATACGTGCACACTGATTTATGTCAGTACATGGACAAGCACCTGGAGGACTCCATCCAGATAATGT
GAAGTTGTTTTTATTCAGCTGCTGCGAGGACTGTCTTACATCCACCAGCGTTATATTTTGCACAGAGAC
CTGAAACCGCAGAACCTTCTCATCAGCGATACGGGGGAGTTGAAGCTGGCAGATTTCCGTCTGGCAAGAG
CAAAATCCGTCCCTAGCCACACATACTCCAATGAAGTGGTTACCTTGTTGACAGACCTCCAGATGTTCT
TCTGGGCTCTACAGAATATTCACCTGCCTTGACATGTGGGGAGTTGGCTGTATCTTCGTTGAGATGATC
CAAGGAGTTGCTGCGTTTCCAGGAATGAAAGACATTCAGGATCAACTTGAACGGATATTTCTGGTCTTTG
GAACACCGAATGAGGACACGTGGCTGGGATTCATTCTTTACCACATTTAAGCCAGAACGCTTTACCGT
GTACAGCTCTAAAAGCCTTAGACAAGCATGGAATAAGCTCAGCTATGTAATCATGCTGAAGACTTGGCC
TCCAAGCTTCTCCAGTGTCCCCAAAGAACAGGCTATCAGCACAGGCCGCTTGGCCATGAGTATTTCA
GCGATCTGCCTCCACGGCTATGGGAGCTGACTGATATGTCTTCTATTTTTACCGTCCCAAATGTGAGATT
GCAACCAGAAGCTGGAGAGAGCATGAGGGCCTTTGAAAAACAATAGTTATGGGAAAAGCCTATCGAAC
AGCAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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ORF Size:	1271 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	BC068134 , AAH68134
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]