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Product datasheet for SC323368

PFTK1 (CDK14) (NM_012395) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFTK1 (CDK14) (NM_012395) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFTK1
Synonyms:	PFTAIRE1; PFTK1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012395, the custom clone sequence may differ by one or more nucleotides

ATGCACGGTTACTTTGGCTGCAATGCTGCTGCAGAGCCCGGTTACTCTGCCTTCGTGGGAACTCCACAGA
TATGTGTCACAAAGATGTCTACACGGAACTGCCAGGGAATGGACTCAGTGATCAAACCCCTGGACACAAT
TCCTGAGGATAAAAAAGTCAGAGTTCAGAGGACACAGAGCACTTTTGACCCATTTGAGAAACCAGCTAAT
CAAGTAAAGAGGGTGCATTCTGAGAACAATGCTTGCATTAACTTTAAGACCTCCTCCACTGGCAAAGAGT
CACCTAAAGTTAGGCGGCACTCCAGCCCCAGCTCGCCAACAAGTCCCAAATTTGGAAAAGCTGACTCATA
TGAAAAGCTGGAAAAACTAGGGGAAGGATCTTATGCTACAGTATACAAAGGGAAAAGCAAGGTAAATGGG
AAGTTGGTAGCTCTGAAGGTGATCAGGCTGCAGGAAGAAGAAGGGACACCTTTCACAGCTATCAGGGAAG
CTTCTCTTTTAAAAGGACTAAAACATGCTAACATAGTGCTACTTCATGACATCATCCATACCAAGGAGAC
GCTGACACTTGTGTTTGAATATGTGCACACTGATTTATGTCAGTACATGGACAAGCACCCTGGGGGGCTG
CATCCAGATAATGTGAAGTTGTTTTTATTTCAGTTGCTGCGAGGTCTGTCTTACATCCACCAGCGTTATA
TTTTGCACAGAGACCTGAAACCACAGAACCTTCTGATCAGTGACACGGGGGAGTTAAAGCTGGCAGATTT
CGGTCTTGCAAGAGCAAAATCCGTCCCTAGCCACACATACTCCAACGAAGTGGTTACCTTGTGGTACAGA
CCTCCAGATGTCCTTCTAGGCTCAACAGAATATTCCACCTGCCTTGACATGTGGGGAGTAGGTTGCATCT
TTGTTGAAATGATCCAAGGAGTTGCTGCTTTTCCAGGAATGAAAGACATTCAGGATCAACTTGAACGAAT
ATTTCTGGTTCTTGGAACACCAAATGAGGACACATGGCCTGGAGTTCATTCTTTACCACATTTTAAGCCA
GAACGCTTTACCCTGTACAGCTCTAAAAACCTTAGACAAGCATGGAATAAGCTCAGCTATGTGAACCATG
CAGAGGACCTGGCCTCCAAGCTCCTACAATGTTCCCCAAAGAACAGACTGTCGGCACAGGCTGCCTTGAG
CCACGAGTATTTTAGTGACCTGCCGCCACGGCTATGGGAACTCACCGACATGTCTTCTATTTTTACTGTC
CCAAATGTGAGATTGCAACCAGAAGCTGGAGAAAGCATGCGGGCCTTTGGGAAAAACAATAGTTATGGCA
AAAGTCTATCAAACAGCAAGCACTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_012395 unedited
CCCGCCCGTCTCAGCAATGGGCGGTAGGCGTGTACGGTTGGGAGGTCTATATAAGCAGAGCTCGTTTAGT
GAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTTGGTTGTAG
TACGGCCGTACCATTTCAGCTTGCTAGTGCAGAAAGATGTGAATTCAGTTGCTGTATGAGCCTGGCCTGG
TGCAAACACATTGCTAGAGACATGTTAAAGAGTTCCAGGTGAATCAAGCCTGAGGGAGACAACAGCAAAA
CGATATGTGTCACAAAGATGTCTACACGGAACTGCCAGGGGAATGGACTCAGTGATCAAACCCCTGGACA
CAATTCCTGAGGATTAAAAAAAGTCAGAGTTTCAGAGGACACAGAGCCACTTTTTGACCCATTGAAGAAA
CCCAGCTTAATCAAGTTAAAGAGGGTGGCATTCGAAAAACAAGGCTTGGCATTACCTTTAGAACCTCCCC
AACTGCCAAGAAGTCACCTAAGGTTAGGCGGACTTCAGCCCCAGCTCGGCCACAGGGTCCCAATTGGAAA
AGCGCTGACTATATAGAAAAAGCTGGGAAAACTTAGGGGGAGGGATTATGCCCACGTATACAAAAGGAAA
AAAACAGTGAATGGGAGATTTTGTAGTCTGAGGTGATATCGCGCTGCGAGAAGAAAGGACACTTTTACAC
ACTATCGGGGACTCTCTTTAAAGAGCAACACGCTAACATGGCATCTTTGAACTCTCTACCAGGGACGTGA
CCTTGTGTGGAATGTGCCACCTGATATTGCTACCTGACAACCCTGGGCCGACTCAGAATTGGAGTGCTAT
CATTGCGCAAGCTGCCTATACCACGCTATATGCGAACTGACCAGGCTGTCATAGCAGGGGATAAGCGCG

Kinase Domain Sequence:

>SC323368 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
ACKATGMGCATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC
AGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTTGGTTGTAGTACGGCCG
TACCATTTCAGCTTGCTAGTGCAGAAAGATGTGAATTCAGTTGCTGTATGAGCCTGGCCTGGTGCAAACA
CATTGCTAGAGACATGTTAAAGAGTTCCAGGTGAATCAAGCCTGA

Restriction Sites: Please inquire

ACCN: NM_012395

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).

OTI Annotation: This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.

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_012395.2, NP_036527.1

RefSeq Size: 4953 bp

RefSeq ORF: 1356 bp

Locus ID:	5218
UniProt ID:	O94921
Cytogenetics:	7q21.13
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	PFTK1 is a member of the CDC2 (MIM 116940)-related protein kinase family (Yang and Chen, 2001 [PubMed 11313143]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (2) contains alternate 5' exon structure and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.