

## Product datasheet for **RC224426**

### **PFTK1 (CDK14) (NM\_012395) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PFTK1 (CDK14) (NM_012395) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PFTK1
Synonyms:	PFTAIRE1; PFTK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC224426 representing NM\_012395  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACGGTTACTTTGGCTGCAATGCTGCTGCAGAGCCCGTTACTCTGCCTTCGTGGAACTCCACAGA  
 TATGTGTCAAAAAGATGTCTACACGGAAGTCCAGGGAATGGACTCAGTGATCAAACCCCTGGACACAAT  
 TCCTGAGGATAAAAAAGTCAGAGTTCAGAGGACACAGAGCACTTTTGACCCATTTGAGAAAACAGCTAAT  
 CAAGTAAAGAGGGTGCATTCTGAGAACAAATGCTTGCAATTAACCTTAAGACCTCCTCCACTGGCAAAGAGT  
 CACCTAAAGTTAGGCGGCACTCCAGCCCAAGCTCGCCAACAAGTCCCAAATTTGGAAAAGCTGACTCATA  
 TGAAAAGCTGGAAAAGTAGGGGAAGGATCTTATGCTACAGTATACAAAGGAAAAGCAAGGTAATGGG  
 AAGTTGGTAGCTCTGAAGTGATCAGGCTGCAGGAAGAAGAAGGGACACCTTTCACAGCTATCAGGGAAG  
 CTTCTCTTTAAAAGGACTAAAACATGCTAACATAGTGTACTTCATGACATCATCCATACCAAGGAGAC  
 GCTGACTTGTGTTGAATATGTGCACACTGATTTATGTCAGTACATGGACAAGCACCTGGGGGGCTG  
 CATCCAGATAATGTGAAGTTGTTTTATTTTCAGTTGCTGCGAGGTCTGTCTTACATCCACCAGCGTTATA  
 TTTTGCACAGAGACCTGAAACCAAGAACCTTCTGATCAGTGACACGGGGGAGTTAAAGCTGGCAGATT  
 CGGTCTTGCAAGAGCAAAATCCGTCCCTAGCCACACATACTCCAACGAAGTGGTTACCTTGTGGTACAGA  
 CCTCCAGATGTCCTTCTAGGCTCAACAGAATATCCACCTGCCTTGACATGTGGGGAGTAGGTTGCATCT  
 TTGTTGAAATGATCCAAGGAGTTGCTGCTTTCCAGGAATGAAAGACATTCAGGATCACTTGAACGAAT  
 ATTTCTGGTTCTTGGAACACCAATGAGGACACATGGCCTGGAGTTCATTCTTTACCACATTTTAAGCCA  
 GAACGCTTTACCCTGTACAGCTCTAAAACCTTAGACAAGCATGGAATAAGCTCAGCTATGTGAACCATG  
 CAGAGGACCTGGCCTCCAAGCTCCTACAATGTTCCCAAGAACAGACTGTCGGCACAGGCTGCCTTGAG  
 CCACGAGTATTTAGTGACCTGCCGCCAGGCTATGGGAACTCACCGACATGTCTTCTATTTTACTGTC  
 CCAATGTGAGATTGCAACCAGAAGCTGGAGAAAGCATGCGGGCCTTTGGGAAAAACAATAGTTATGGCA  
 AAAGTCTATCAACAGCAAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224426 representing NM\_012395  
 Red=Cloning site Green=Tags(s)

MHGYFGCNAEAEPGYSAFVGTPIQVTKMSTRNCQGMDSVIKPLDTIPEDKKVRVQRTQSTFDPFEPAN  
 QVKRVHSENNACINFKTSSTGKESPKVRRHSSPSPKFGKADSYEKLEKLGESYATVYKGSKVN  
 KLVALKVIRLQEEETPFTAIREASLLKGLKHANIVLLHDIHTKETLTLVFEYVHTDLCOYMDKHPGGL  
 HPDNVCLFLFQLLRGLSYIHQRYILHRDLKPQNLLISDTGELKLAADFGLARAKSVPSHTYSNEVTLWYR  
 PPDVLLGSTYSTCLDMWGVGCFVEMIQGVAAFPGMKDIQDQLERIFLVLTGPNEDTWPVHSLPHFKP  
 ERFTLYSSKNLRQAWNKLSYVNHAEDLASKLLQCSKPNRLSAQAALSHEYFSDLPPRLWELTDMSSIFTV  
 PNVRLQPEAGESMRAFGKNNSYGKSLSNSKH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3362\\_d07.zip](https://cdn.origene.com/chromatograms/mg3362_d07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_012395

**ORF Size:** 1353 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:**

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\\_012395.3](#), [NP\\_036527.1](#)

**RefSeq Size:** 4953 bp

**RefSeq ORF:** 1356 bp

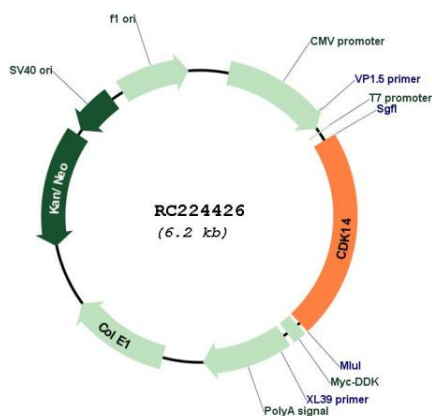
**Locus ID:** 5218

**UniProt ID:** [O94921](#)

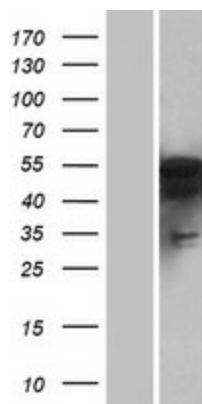
**Cytogenetics:** 7q21.13

**Domains:** pkinase, TyrKc, S\_TKc  
**Protein Families:** Druggable Genome, Protein Kinase  
**MW:** 50.5 kDa  
**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]

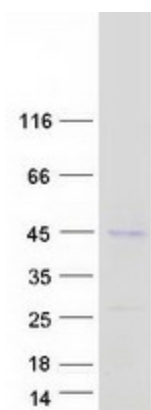
**Product images:**



Circular map for RC224426



Western blot validation of overexpression lysate (Cat# [LY415792]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224426 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDK14 protein (Cat# [TP324426]). The protein was produced from HEK293T cells transfected with CDK14 cDNA clone (Cat# RC224426) using MegaTran 2.0 (Cat# [TT210002]).