

Product datasheet for **RC238411**

PFTK1 (CDK14) (NM_001287135) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFTK1 (CDK14) (NM_001287135) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDK14
Synonyms:	PFTAIRE1; PFTK1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238411 representing NM_001287135
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTGACCTCATTGAGCCGACGCCGCGGAGAAGATCGGCAAGATGAAGAAGTTGCGGAGAACTTTGT
 CGGAGAGTTTCAGTCGCATTGCTTTGAAGAAAGATGACACCACCTTTGATGAGATATGTGTCACAAAGAT
 GTCTACACGGAAGTCCAGGGAATGGACTCAGTGATCAAACCCCTGGACACAATTCCTGAGGATAAAAAA
 GTCAGAGTTTCAGAGGACACAGAGCACTTTGACCCATTTGAGAAACCAGCTAATCAAGTAAAGAGGGTGC
 ATTCTGAGAACAAATGCTTGCAATTAACCTTAAGACCTCCTCCACTGGCAAAGAGTACCTAAAGTTAGGCG
 GCACTCCAGCCCCAGCTCGCAACAAGTCCAAATTTGGAAAAGCTGACTCATATGAAAAGCTGGAAAAA
 CTAGGGGAAGGATCTTATGCTACAGTATACAAAGGAAAAGCAAGGTAATGGGAAGTTGGTAGCTCTGA
 AGGTGATCAGGCTGCAGGAAGAAGAAGGGACACCTTTACAGCTATCAGGGAAGCTTCTCTTTAAAAGG
 ACTAAAACATGCTAACATAGTGCTACTTACATGACATCATCCATACCAAGGAGACGCTGACACTTGTGTTT
 GAATATGTGCACACTGATTTATGTCAGTACATGGACAAGCACCTGGGGGGCTGCATCCAGATAATGTGA
 AGTTGTTTTTATTCAGTTGCTGCGAGGCTGTCTTACATCCACCAGCGTTATATTTTGCACAGAGACCT
 GAAACCACAGAACCTTCTGATCAGTGACACGGGGAGTTAAAGCTGGCAGATTTCCGGTCTTGAAGAGCA
 AAATCCGTCCTAGCCACACATACTCCAACGAAGTGGTTACCTTGTGGTACAGACCTCCAGATGTCTTC
 TAGGCTCAACAGAATATCCACCTGCCTTGACATGTGGGGAGTAGGTTGCATCTTTGTTGAAATGATCCA
 AGGAGTTGCTGCTTTCCAGGAATGAAAGACATTCAAGGATCAACTGAACGAATATTTCTGGTCTTGGA
 ACACCAAAATGAGGACACATGGCCTGGAGTTCATCTTTACCACATTTAAAGCCAGAACGCTTTACCTGT
 ACAGCTTAAAAACCTTAGACAAGCATGGAATAAGCTCAGCTATGTGAACCATGCAGAGGACCTGGCCTC
 CAAGCTCCTACAATGTTCCCAAAGAACAGACTGTCGGCACAGGCTGCCTTGAGCCACGAGTATTTTAGT
 GACCTGCCGCCACGGCTATGGGAACTACCGACATGTCTTCTATTTTACTGTCCAAATGTGAGATTGC
 AACCAAGAGCTGGAGAAAGCATGCGGGCCTTTGGGAAAAACAATAGTTATGGCAAAGTCTATCAACAG
 CAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238411 representing NM_001287135
 Red=Cloning site Green=Tags(s)

MCDLIEPQPAEKIGKMKKLRRRLSEFSRIALKKDDTTFDEICVTKMSTRNCQGMDSVIKPLDTIPEDKK
 VRVQRTQSTFDPFKPNQVKRVHSENNACINFKTSSTGKESPKVRRHSSPSSPTSPKFGKADSYEKLEK
 LGEYSYATVYKSKVNGKLVALKVIRLQEEEGTPFTAIREASLLKGLKHANIVLLHDIHKTETLTLVF
 EYVHTDLCQYMDKHPGGLHPDNVKLFLFQLLRGLSYIHQRYILHRDLKPQNLLISDTGELKLADFLARA
 KSVPSHTYSNEVVTLWYRPPDVLLGSTEYSTCLDMWVGCFVEMIQGVAAFPGMKDIQDQLERIFLVLG
 TPNETWPGVHSLPHFKPERFTLYSSKNLRQAWNKL SYVNHAEDLASKLLQCSPKNRLSAQAAL SHEYFS
 DLPPRLWELTDMSSIFTVPNVRLQPEAGESMRAFGKNNSYGKSLSNSKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

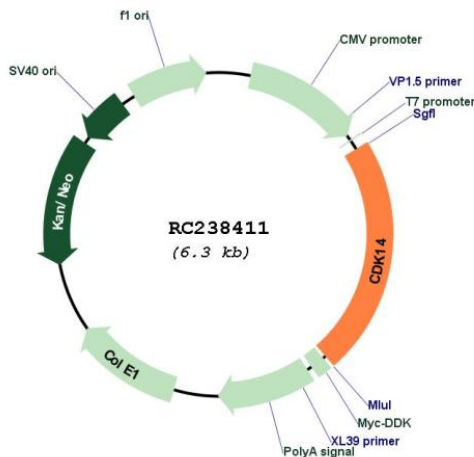
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287135

ORF Size: 1407 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:	NM_001287135.2
RefSeq Size:	5146 bp
RefSeq ORF:	1410 bp
Locus ID:	5218
UniProt ID:	O94921
Cytogenetics:	7q21.13
Protein Families:	Druggable Genome, Protein Kinase
MW:	53.5 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]