

Product datasheet for **RC224565**

PHF14 (NM_014660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	PHF14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224565 representing NM_014660
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATCGCAGCTCCAAGAGGAGGCAGGTGAAGCCTTTGGCAGCTTCTCTGCTGGAAGCTCTTGATTATG
 ATAGTTCAGATGACAGTGATTTTAAAGTTGGAGATGCCTCAGATTCTGAAGGGAGTGGTAATGGAAGTGA
 AGATGCTTCAAAGGACAGTGGAGAAGGTTCTGTAGTGATTCTGAAGAAAATATTTAGAAGAAGAACTG
 AATGAAGATATTAAGTAAAAGAAGAACACTTAAAAATTCGCAGAGGAAGAAGTACTATCATCAGAAA
 AACAAATTAATTAATGAAAAAGAAGGAAGAAGAAAATGGAGAAGACCTAGAAAAGAAAAGGAGAA
 AGAGAAGGAAAAAGAAAAGGAAAAAGGAGAAGGAAAGGAGAAGGAAAAAGAAAAGCAACAGTA
 TCTGAGAATGTGGCTGCTTCTGCTGCTGCCACCACACCAGCCACAAGTCCTCCTGCTGTTAACACATCCC
 CTTCTGTTCCCACTACGACAACCGCTACAGAGGAACAAGTCAGCGAGCCAAAAAATGGAACCTTCGACG
 AAACCGACCACTTCTGGATTTTGTGTCCATGGAAGAGCTGAATGACATGGATGACTATGACAGTGAGGAT
 GACAATGATTGGCGACCTACTGTAGTAAAGAGAAAAGGAGATCTCGCTCTCAGAAAGAGGGAAAGTATG
 GAGACAATGAGGATGATGAAGATGAGGGAAGCGGAGTGAAGACGAGAATGATGAAGGCAATGATGA
 AGATCATAGTAGCCCTGCCAGTGAAGGGGTTGCAAGAAGAAGAAGTAAAGTTCTTAGCAGAAACAGT
 GCTGATGATGAGGAAGTACCAATGATAGCCTGACCTATCTCAAAGCAAGAGTAATGAGGACTCGCTGA
 TTCTTGAGAAGAGTCAAACTGGAGCTCTCAAAAAATGGACCATATTCTGATTGCTGTGTTGTCTGGG
 AGATAATAGTGAGGACGCTGATGAAATAATTAGTGTGACAATTGTGGCATTACAGTCCATGAAGTTGT
 TATGGAGTTGATGGAGAGAGTACTCTATTATGAGTTCAGCTTCTGAAACTCCACTGAACCTTGTTTTT
 GTGATGCCTGTAATGTGGTGTCTCTAGCTGTGAACTGTGCTTAATCAGGATGGAATTTTCAAGGA
 GACAGATGCTGGAAGATGGGTTTCATATTGTTTGTGCCCTGTATGTTCTGGAGTAGCCTTTGGAGATATT
 GACAAATTACGACCACTAACACTAACGGAATGAATATTCCAAATATGGTGCCAAGGAGTGTAGCTTTT
 GTGAAGACCTCGCTTTGCTAGAACTGGGGTTTGCAATAGCTGTGATGCAGGATGTGCAGAGCCTATTT
 CCATGTGACCTGTGCTCAAAAGGAAGTCTGCTTTCAGAGGCAGCGCGGAAGAGGATATAGCAGATCCA
 TTCTTTGCTTATTGTAAGCAACATGCAGATAGGTTAGACAGAAAAGTGAAGAGAAAAAACTACTTGGCTC
 TACAGTCTATTGTAATGCTTTGCAAGAGAGAGAGAAGCAACTATCACCAGAAGCACAGGCAAGGAT
 CAATGCCCGGCTTCAGCAGTATCGTGCCAAAGCAGAACTAGCTCGATCTACCAGACCCAGGCTGGGTT
 CCAAGGGAAAAATTGCCGACCACTACCAGCAGTCTTCAGCTATTCGTAACCTTATGCGGAAAGCAG
 AACTCATGGGGATCAGTACAGATATCTTTCCAGTGGACAATTCAGATACTAGTTCTAGTGTGGATGGAAG
 GAGAAAACATAAGCAACCAGCTCTCACTGCAGATTTTGTGAATTATTATTTGAGAGAAATATGCGCATG
 ATTCAAATTCAGGAAAAATAGGCTGAACAAAAGAAATATAAAAGATAAATAGAGAATGAACAAAGAAAGC
 TTCATGTAGAATATAATAAGCTATGTGAATCTTTAGAAGAACTACAAAACCTGAATGGAAGAACTTCGAAG
 TGAAGGACAAGGAATATGGGCTTTACTAGGCAGAATCACAGGGCAGAAAGTTGAATATACCGGCAATTTTG
 CGAGCACCCCAAGGAGAGAAAACCAAGTAAAAAGAAGGAGGCACAAAAAGACATCTACTCTTCTGCGAG
 TACTTTATAGTTGTGGATTTGTAAGAAGAACCATGATCAGCATCTTCTTTATTGTGTGATACCTGTAA
 ACTACATTACCATCTTGGATGTCTGGATCCTCTTACAAGGATGCCAAGAAAGACCAAAAACAGTTAT
 TGGCAGTGCTCGGAATGTGACCAGGCAGGAGCAGTGACATGGAAGCAGATATGGCCATGGAACCCCTAC
 CAGATGGAACCAACGATCAAGGAGGCAGATTAAGGAACCAAGTGAATTTGTTCCACAGGATGTGCCACC
 AGAACCAAGAAGATTCGATAAAGAACACGAGAACCAGAGGACGAAAACGAAGCTTCGTTCTGAGGAA
 GAAAAACATGAGGAAAGAGTTCTAGAGAGAGAAGACAAGACAGTCTGTGTTGCAAAAGAAGCCCAAGG
 CTGAAGATTGAAGAACTGAATGTGCAACTTGCAAGGGAAGTGGAGACAATGAAAATCTTGTGATACCC
 TTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224565 representing NM_014660

Red=Cloning site Green=Tags(s)

MDRSSKRRQVKPLAASLLEALDYDSSDDSKVGDASDSESGNGSEDASKDSGEGSCSDSEENILEEEL
 NEDIKVKEEQLKNSAEEVLSSSEKQLIKMEKKEEEENGERPRKKKEKEKEKEKEKEKEKEKEKEKATV
 SENVAASAAATTPATSPPAVNTSPSVPTTTTATEEQVSEPKKWNLRNRPLLDVFSMEELNDMDDYDSED
 DNDWRPTVVKRKGRSASQKEGSDGDNEDEDEGSGSDEDEDEGNDHSSPASEGGCKKKKSKVLSRNS
 ADDEELTNDLTLQSKSNEDSLILEKSQNWSSQKMDHILICCVCLGDNSEDAEIIQCDNCGITVHEGC
 YGVDGESDSIMSSASENSTEPWFCDAKCKGVSPSCELCPNQDGIKETDAGRWWHIVCALYVPGVAFGDI
 DKLRPVTLEMNYSKYGAKECSFCEDPRFARTGVCISCDAGMCRAVYFHTCAQKEGLLSEAAAAEEDIADP
 FFAYCKQHADRLDRKWRKKNYLALQSYCKMSLQEREKQLSPEAQARINARLQQYRAKAELARSTRPQAWV
 PREKLPRPLTSSASAIRKLMRKAELMGISTDIFPVDNSDTSSSVDGRRKHKQPALTADFVNYYFERNMRM
 IQIQENMAEQKNIKDKLENEQEKLHVEYNKLCESLEELQNLNGKLRSEGQGIWALLGRITGQKLNIPAIL
 RAPKERKPSKKEGGTQKTSTLPAVLVSCGICKKNHDQHLLLLCDTCKLHYHLGCLDPPLTRMPRKTKNSY
 WQCSECDQAGSSDMEADMAMETLPDGTKRSRQIKEPVKFVPQDVPPEPKKIPIRNTRTRGRKRSFVPEE
 EKHEERVPRERRQRQSVLQKKPKAEDLRTECATCKGTGDNENLVRYPS

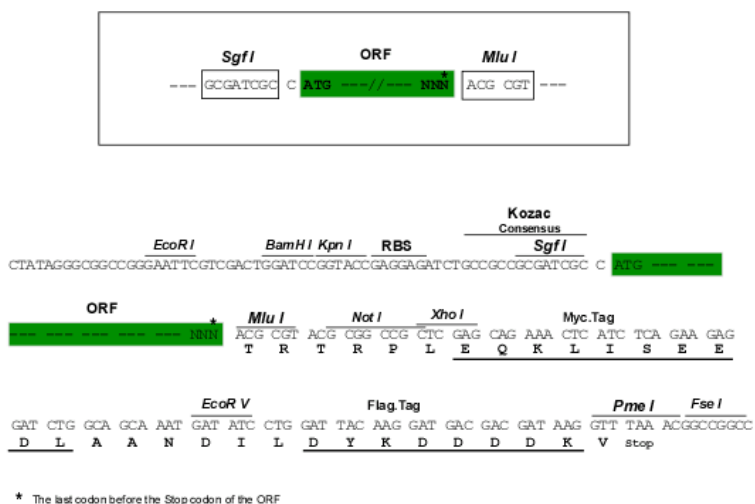
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

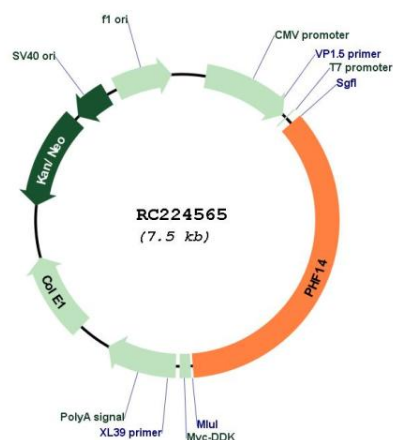


ACCN: NM_014660

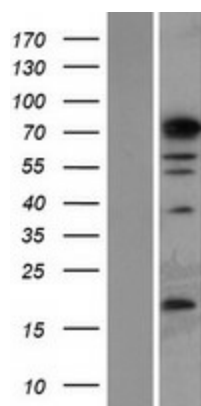
ORF Size: 2664 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014660.4
RefSeq Size:	4259 bp
RefSeq ORF:	2667 bp
Locus ID:	9678
UniProt ID:	O94880
Cytogenetics:	7p21.3
Domains:	PHD
Protein Families:	Druggable Genome, Transcription Factors
MW:	99.9 kDa

Product images:



Circular map for RC224565



Western blot validation of overexpression lysate (Cat# [LY415118]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224565 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).