

## Product datasheet for RC219026

### PHF7 (NM\_173341) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHF7 (NM_173341) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHF7
Synonyms:	HSPC045; HSPC226; NYD-SP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219026 representing NM_173341 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGACTGTAAAAGAAAAGAAGGAATGCCAGAGATTGAGAAAATCTGCCAAGACTAGGAGGGTAACCC  
AGAGGAAACCGTCTTCAGGGCCTGTTTGGCTGGCTATGCCTTCGAGAACCTGGGGATCCCAGAAAATTAGG  
GGAATTTCTTCAGAAAGACAATATCAGCGTGCATTATTTCTGTCTTATCTTATCTAGTAAGCTGCCTCAG  
AGGGGCCAGTCCAACAGAGGCTCCATGGATTTCTGCCTGAAGACATCAAAAAGGAGGCAGCCCGGGCTT  
CTAGGAAGATCTGCTTTGTGTGCAAGAAAAGGGAGCTGCTATCAACTGCCAGAAGGATCAGTGCCTCAG  
AACTTCCATCTGCCTTGTGGCCAAGAAAGGGTTCCTTTTCAAAATTTTGGAGAGTACAATCATT  
TGTGACAAACATCGCCCAACACAGAATCCAACATGGGCATGTGGGGGAGGAAAGCTGCATCTTATGTT  
GTGAAGACTTATCCCAACAGAGTGTGAGAATCCAGAGCCCGTGTGTAGTCAAGCCATCTACCACCG  
CAAGTGCATACAGAAATATGCCACACATCAGCAAAGCATTCTTCAAATGTCCACAGTGTAAACAATCGA  
AAAGAGTTTCTCAAGAAATGCTGAGAATGGGAATTCATATCCAGACAGGAGGTGGTGCCTCATTCTGT  
GTGCTACATGCGGATCCCACGGAACCCACAGGGACTGCTCCTCTTAGATCTAACAGTAAGAAATGGGA  
GTGTGAGGAGTGTTCACCTGTGCAGCCACAGACTACATACCTGAAAACCTCAGGGGACATCCCTTGCTGC  
AGCAGCACCTTCCACCTGAGGAACATTTCTGCAGAGACAACACCTTGGAAAGAGAATCCGGGCCTTTCTT  
GGACTGATTGGCCAGAACCTTCTTATTAGAAAAGCCAGAGTCCCTCTCGTGGCAGGAGGACTACTCCTG  
GAGGTCCAAGGGTGTGAGAATCACTAACAGCTGCAAAAAATCCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219026 representing NM\_173341  
 Red=Cloning site Green=Tags(s)

MKTVKEKKECQRLRKS AKTRRVTRQKRPSSGPVCWLCLEPGDPEKLGFLQKDNISVHYFCLILSSKLPQ  
 RGQSNRFGHGF LPEDIKKEAARASRKICFVCKKGGAAINCQKDQCLRNHFLPCGQERGCLSQFFGEYKSF  
 CDKHRPTQNIQHGHVGEESCILCCEDLSQQSVENIQSPCCSQAIYHRKCIQKYAHTSAKHFFKCPQCNNR  
 KEFPQEMLRMGIHIPDRRWCLILCATCGSHGTHRDCSSLRNSKKWECEECSPA AATDYIPENSGDIPCC  
 SSTFHPEEHF CRDNTLEENPGLSWTDWPEPSLLEKPESSRGRRSYSWRSKGV RITNSCKKSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8053\\_e04.zip](https://cdn.origene.com/chromatograms/mk8053_e04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_173341

**ORF Size:** 1026 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\\_173341.1](#), [NP\\_775463.1](#)

**RefSeq Size:** 2173 bp

**RefSeq ORF:** 1028 bp

**Locus ID:** 51533

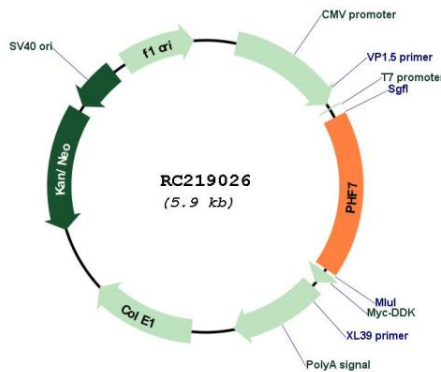
**Cytogenetics:** 3p21.1

**Protein Families:** Druggable Genome, Transcription Factors

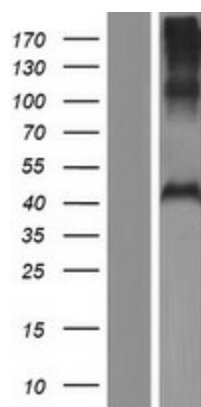
**MW:** 39.1 kDa

**Gene Summary:** Spermatogenesis is a complex process regulated by extracellular and intracellular factors as well as cellular interactions among interstitial cells of the testis, Sertoli cells, and germ cells. This gene is expressed in the testis in Sertoli cells but not germ cells. The protein encoded by this gene contains plant homeodomain (PHD) finger domains, also known as leukemia associated protein (LAP) domains, believed to be involved in transcriptional regulation. The protein, which localizes to the nucleus of transfected cells, has been implicated in the transcriptional regulation of spermatogenesis. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]

**Product images:**



Circular map for RC219026



Western blot validation of overexpression lysate (Cat# [LY406629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219026 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).