

Product datasheet for **RG219026**

PHF7 (NM_173341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PHF7
Synonyms:	HSPC045; HSPC226; NYD-SP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG219026 representing NM_173341
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACTGTAAAGAAAAGAAGGAATGCCAGAGATTGAGAAAATCTGCCAAGACTAGGAGGGTAACCC
AGAGGAAACCGTCTTCAGGGCCTGTTTGCTGGCTATGCCTTCGAGAACCTGGGGATCCCGAAAAATTAGG
GGAATTTCTTCAGAAAGACAATATCAGCGTGCATTATTTCTGTCTTATCTATCTAGTAAGCTGCCTCAG
AGGGGCCAGTCCAACAGAGGCTTCCATGGATTTCTGCCTGAAGACATCAAAAGGAGGCAGCCGGGCTT
CTAGGAAGATCTGCTTTGTGTGCAAGAAAAGGGAGCTGCTATCAACTGCCAGAAGGATCAGTGCCTCAG
AAACTTCCATCTGCCTTGTGGCCAAGAAAGGGTTGCCTTTCACAATTTTTGGAGAGTACAAATCATT
TGTGACAAACATCGCCCAACAGAACATCCAACATGGGCATGTGGGGAGGAAAGCTGCATCTTATGTT
GTGAAGACTTATCCCAACAGAGTGTGAGAACATCCAGAGCCCGTGTGTAGTCAAGCCATCTACCACCG
CAAGTGCATACAGAAATATGCCACACATCAGCAAAGCATTCTTCAAAATGTCCACAGTGTAAACATCGA
AAAGAGTTTCTCAAGAAATGCTGAGAATGGGAATTCATTTCCAGACAGGAGGTGGTGCCTCATTCTGT
GTGCTACATGCGGATCCACGGAACCCACAGGGACTGCTCCTCTCTTAGATCTAACAGTAAGAAATGGGA
GTGTGAGGAGTGTTCACCTGCTGCAGCCACAGACTACATACCTGAAACTCAGGGGACATCCCTTGCTGC
AGCAGCACCTTCCACCCTGAGGAACATTTCTGCAGAGACAACACCTTGGAAGAGAATCCGGGCTTTCTT
GGACTGATTGGCCAGAACCTTCTTATTAGAAAAGCCAGAGTCCTCTCGTGGCAGGAGGAGCTACTCCTG
GAGGTCCAAGGTGTCAGAATCACTAACAGCTGCAAAAAATCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG219026 representing NM_173341
Red=Cloning site Green=Tags(s)

MKTVKEKKECQRLRKSAKTRRVTRQKPSGPVCWLCLEPGDPEKLGEFLQKDNISVHYFCLILSSKLPQ
RGQSNRGFHGFLPEDIKKEAARASRKICFVCKKKGAAINCQKDQCLRNHFLPCGQERGCLSQFFGEYKSF
CDKHRPTQNIQHGHVGEESCILCCEDLSQGSVENIQSPCCSQAIYHRKCIQKYAHTSAKHFFKCPQCNNR
KEFPQEMLRMGIHIPDRRWCLILCATCGSHGTHRDCSSLRSNSKKWECEECSPAAATDYIPENSGDIPCC
SSTFHPEEHFCDNTLEENPGLSWTDWPEPSLLEKPESSRGRRSYWSRSGVTRITNSCKKSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_173341

ORF Size: 1026 bp

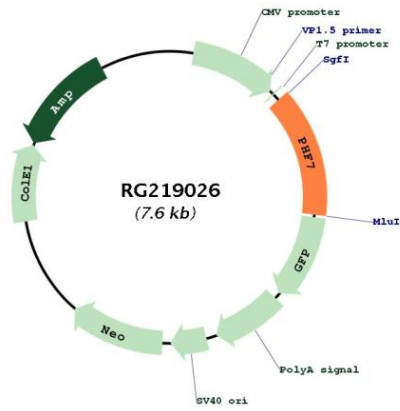
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_173341.1</u> , <u>NP_775463.1</u>
RefSeq Size:	2173 bp
RefSeq ORF:	1028 bp
Locus ID:	51533
Cytogenetics:	3p21.1
Protein Families:	Druggable Genome, Transcription Factors
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 RG219026