**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC205192

## PHF7 (NM_016483) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PHF7 (NM_016483) 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:**

>RC205192 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACTGTAAAAGAAAAGAAGGAATGCCAGAGATTGAGAAAATCTGCCAAGACTAGGAGGGTAACCC
AGAGGAAACCGTCTTCAGGGCCTGTTTGCTGGCTATGCCTTCGAGAACCTGGGGATCCCGAAAAATTAGG
GGAATTTCTTCAGAAAGACAATATCAGCGTGCATTATTTCTGTCTTATCTTATCTAGTAAGCTGCCTCAG
AGGGGCCAGTCCAACAGAGGTTTCCATGGATTTCTGCCTGAAGACATCAAAAAGGAGGCAGCCCGGGCTT
CTAGGAAGATCTGCTTTGTGTGCAAGAAAAAGGGAGCTGCTATCAACTGCCAGAAGGATCAGTGCCTCAG
AAACTTCCATCTGCCTTGTGGCCAAGAAAGGGGTTGCCTTTCACAATTTTTTGGAGAGTACAAATCATTT
TGTGACAAACATCGCCCAACACAGAACATCCAACATGGGCATGTGGGGGAGGAAAGCTGCATCTTATGTT
GTGAAGACTTATCCCAACAGAGTGTTGAGAACATCCAGAGCCCGTGTTGTAGTCAAGCCATCTACCACCG
CAAGTGCATACAGAAATATGCCCACACATCAGCAAAGCATTTCTTCAAATGTCCACAGTGTAACAATCGA
AAAGAGTTTCCTCAAGAAATGCTGAGAATGGGAATTCATATTCCAGACAGAGATGCTGCCTGGGAACTCG
AGCCAGGGGCTTTCTCAGACTTATATCAGCGCTATCAGCACTGTGATGCCCCCATCTGTCTGTATGAACA
AGGCAGAGACAGCTTTGAGGATGAAGGGAGGTGGTGCCTCATTCTGTGTGCTACATGCGGATCCCACGGA
ACCCACAGGGACTGCTCCTCTCTTAGATCTAACAGTAAGAAATGGGAGTGTGAGGAGTGTTCACCTGCTG
CAGCCACAGACTACATACCTGAAAACTCAGGGGACATCCCTTGCTGCAGCAGCACCTTCCACCCTGAGGA
ACATTTCTGCAGAGACAACACCTTGGAAGAGAATCCGGGCCTTTCTTGGACTGATTGGCCAGAACCTTCC
TTATTAGAAAAGCCAGAGTCCTCTCGTGGCAGGAGGAGCTACTCCTGGAGGTCCAAGGGTGTCAGAATCA
CTAACAGCTGCAAAAAATCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:**

>RC205192 protein sequence
Red=Cloning site Green=Tags(s)

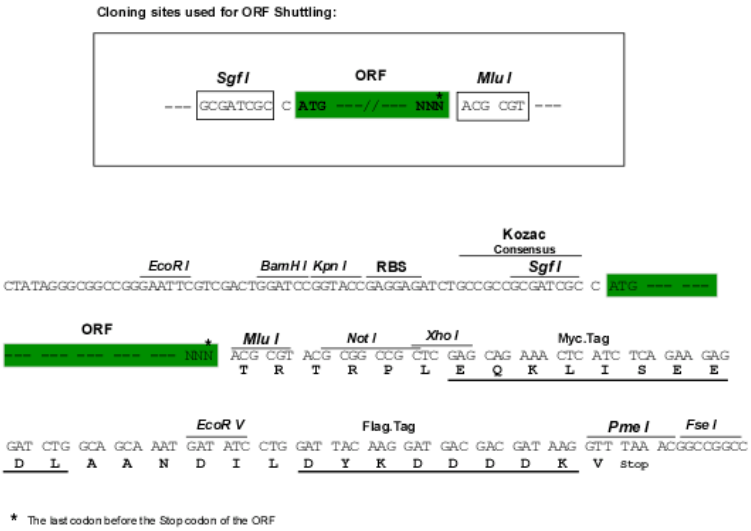
MKTVKEKKECQRLRKSAKTRRVTQRKPSSGPVCWLCLREPGDPEKLGEFLQKDNISVHYFCLILSSKLPQ
RGQSNRGFHGFLPEDIKKEAARASRKICFVCKKKGAAINCQKDQCLRNFHLPCGQERGCLSQFFGEYKSF
CDKHRPTQNIQHGHVGEESCILCCEDLSQQSVENIQSPCCSQAIYHRKCIQKYAHTSAKHFFKCPQCNNR
KEFPQEMLRMGIHIPDRDAAWELEPGAFSDLYQRYQHCDAPICLYEQGRDSFEDEGRWCLILCATCGSHG
THRDCSSLRSNSKKWECEECSPAAATDYIPENSGDIPCCSSTFHPEEHFCRDNTLEENPGLSWTDWPEPS
LLEKPESSRGRRSYSWRSKGVRITNSCKKSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6027_d02.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_016483

**ORF Size:** 1143 bp

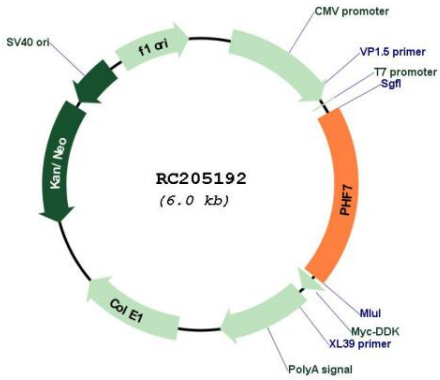
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

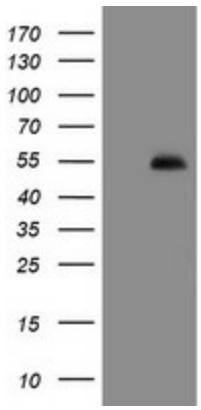
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_016483.7 |
| **RefSeq Size:** | 2240 bp |
| **RefSeq ORF:** | 1146 bp |
| **Locus ID:** | 51533 |
| **UniProt ID:** | Q9BWX1 |
| **Cytogenetics:** | 3p21.1 |
| **Protein Families:** | Druggable Genome, Transcription Factors |
| **MW:** | 43.8 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] |

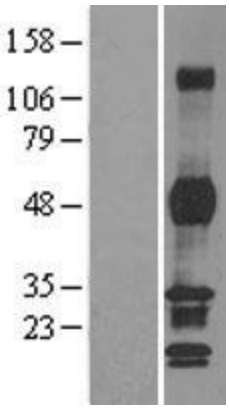
## Product images:



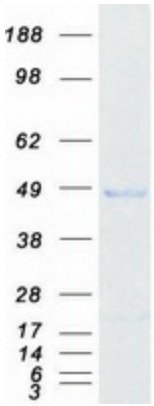

Circular map for RC205192




HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PHF7 (Cat# RC205192, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PHF7(Cat# [TA505115]). Positive lysates [LY402558] (100ug) and [LC402558] (20ug) can be purchased separately from OriGene.




Western blot validation of overexpression lysate (Cat# [LY402558]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205192 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified PHF7 protein (Cat# [TP305192]). The protein was produced from HEK293T cells transfected with PHF7 cDNA clone (Cat# RC205192) using MegaTran 2.0 (Cat# [TT210002]).