

## Product datasheet for **RC239045**

### PHF19 (NM\_001286840) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHF19 (NM_001286840) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHF19
Synonyms:	MTF2L1; PCL3; TDRD19B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC239045 representing NM\_001286840  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGGTCTTGTAATCCGTGGTCCCTATCCCAGCGCCAGTGTGAGGGGAAGCTGATGGAGAATCGAG  
 CTCTGGATCCAGGACTCGGACTCCTATGGTGCCACCAGCCACCTCCCCAACAGGGGGCCCTGGCGAA  
 GGTCAAGAACAACCTTCAAAGACTTGATGTCCAACTGACGGAGGGCCAGTATGTGCTGTGCCGTGGACA  
 GATGGCCTGTACTACCTCGGGAAGATCAAGAGGGTCAAGAGCTCTAAGCAAAGCTGCCTCGTGACTTTCCG  
 AAGATAATTCAAATACTGGGTCTATGGAAGGACATACAGCATGCCGGTGTCCAGGAGAGGAGCCCAA  
 GTGCAACATCTGCCTAGGGAAGACATCAGGGCCGCTGAATGAGATCCTCATCTGCGGGAAGTGTGCCTG  
 GGTACCACCAGCAGTCCACATCCCCATAGCGGGCAGTGTGACCAGCCCTGCTCACACCTTGGTTCT  
 GCCGACGTGCATCTTCGACTGGCTGTGCGGAAAGCGGCGCTGAAGAAGGGCGCCATCGCCAGGAC  
 GCTGCAGGCCGTGAAGATGGTGTCTCTACCAGCCCAGGAGCTCGAGTGGACTCGCCCCATCGCACC  
 AACCCAGCAGCAATGCTACTGCTACTGCGGGCGGCCGGAGAATGGTACCTGCGGATGCTGCAATGTTACC  
 GGTGCAGGCAGTGGTCCACGAGGCCTGCACCCAGTGCCTCAATGAGCCCATGATGTTTGGAGACCGGTT  
 TTACCTGTTCTTCTGCTCCGTGTGTAACCAGGGCCAGAGTACATCGAGAGGCTGCCCTGCGATGGGTG  
 GATGTGGTTACCTGGCCCTCTAATCTGGGGGTACAGAGCAAGAAGAAGTACTTTGACTTTGAGGAGA  
 TTCTGGCCTTTGTCAACCACCACTGGGAGCTCTGCAGCTTGGCAAGCTCACCAGCACCCAGTGCAGAG  
 TCGAGGACCACATCTCTCAACGCTCTGAACAGTTATAAAAGCCGGTTCCTCTGCGGCAAGGAGATCAAG  
 AAGAAGAAGTGCATCTTCGCTGCGCATCCGCGTCCCACCAACCCGAGGGAAGCTGCTGCCTGACA  
 AAGGACTGCTGCCAAATGAGAACAGCGCTCCTCTGAGCTGCGTAAGAGAGGAAAGAGCAAGCCTGGTTT  
 GTTGCCTCACGAATTCAGCAGCAGAAAAGGCGAGTTTATAGAAGAAAAAGATCAAAGTTTTTGTGGAA  
 GATGCTATTTCCAGTAGTGACTTACCTCAGCCTGGAGCACCAACACCACCTGGCTAGCATATTTGACT  
 TCACGCTGGATGAAATCAAAGTTAAAAAGTGCAGCTCAGGCCAGACCTTCTTCTCAGATGTCGACTC  
 CACCGACGCTGCCAGCACCTCTGGCTCTGCCTCCACCAGCCTCTCCTATGACTCCAGATGGACAGTGGG  
 AGCCGAAAGAGGAAGCTGGCAGCCAAGGCATACATGCCCTGCGGGCAAAGCGGTGGCAGCTGAGCTGG  
 ATGGACGCTGCCCTCGGACAGCAGTGCAGAGGGGGCTTCACTCCCGAGCGGCCAGACGAAGGCATTGA  
 CAGCCACACATTTGAGAGCATCAGTGAAGATGACTCATCCCTGTCCACCTCAAGTCATCTATCACCAAC  
 TACTTTGGTGCAGCTGGGCGGTTGGCCTGTGGGAGAAGTACCAGGTGTTGGCTCGGAGGGTCACACCTG  
 AGGGCAAGGTTACGTACCTGGTGGAGTGGGAAGGGACCACCCCTTAC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239045 representing NM\_001286840  
 Red=Cloning site Green=Tags(s)

MLVLVIRGPYPSAQCGKLMENRALDPGTRDSYGATSHLPNKGALAKVKNNFKDLMSKLEGGYVLCRWT  
 DGLYYLGIKRVSSSKQSCLVTFEDNSKYVWLWKDIQHAGVPGEEPKNICLGTSGPLNEILICGKCGL  
 GYHQQCHIPIAGSADQPLLTPWFCRRCIFALAVRKGKGGALKKGAARTLQAVKMLVSYQPELEWDSPHRT  
 NQQQCVCYCGGPGEWYLRMLQCYRCRQWFHEACTQCLNEPMMFGDRFYLFCSVCNQGPYIERLPLRWV  
 DVVHLALYNLGVQSKKKYDFEEILAFVNHHEWELLQLGKLTSTPVTDRGPHLLNALNSYKSRFLCGKEIK  
 KKKCIFRLRIRVPPNPPGKLLPDKGLLPNENSASSELRKRKSKPGLLPHEFQQKRRVYRRKRSKFLLE  
 DAIPSSDFTSAWSTNHHLASIFDFTLDEIQSLKSASSGQTFSDVDSTDAASTSGSASTSLSYDSRWTVG  
 SRKRKLAAYMPLRAKRWAAELDGRCPDSSAEGASVPERPDEGIDSHTFESISEDDSSLSHLKSISITN  
 YFGAAGRLACGEKYQVLARRVTPEGKVQYLVEWEGTTPY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



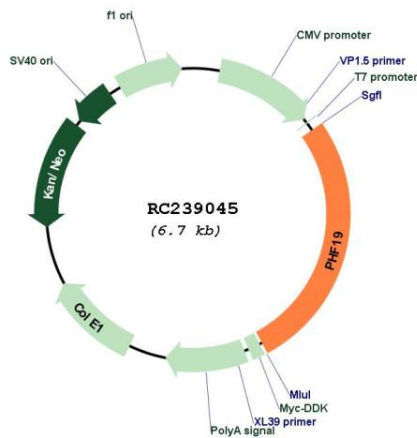
**Cytogenetics:** 9q33.2

**Protein Families:** Druggable Genome

**MW:** 68.1 kDa

**Gene Summary:** Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex. Probably involved in the transition from an active state to a repressed state in embryonic stem cells: acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting H3K36me3 histone demethylases RIOX1 or KDM2B, leading to demethylation of H3K36 and recruitment of the PRC2 complex that mediates H3K27me3 methylation, followed by de novo silencing. Recruits the PRC2 complex to CpG islands and contributes to embryonic stem cell self-renewal. Also binds dimethylated at 'Lys-36' (H3K36me2). Isoform 1 and isoform 2 inhibit transcription from an HSV-tk promoter. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC239045