

## Product datasheet for **RG235893**

### PHF19 (NM\_001286843) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PHF19 (NM\_001286843) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PHF19  
**Synonyms:** MTF2L1; PCL3; TDRD19B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235893 representing NM\_001286843.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGAATCGAGCTCTGGATCCAGGGACTCGGGACTCCTATGGTGCCACCAGCCACCTCCCAACAAG
GGGGCCCTGGCGAAGGTCAAGAACAACCTCAAAGACTTGATGTCCAACTGACGGAGGGCCAGTATGTG
CTGTGCCGGTGGACAGATGGCCTGTACTACCTCGGAAGATCAAGAGGGTCAGCAGCTCTAAGCAAAGC
TGCCTCGTGACTTTCGAAGATAATTCAAATACTGGGTCTATGGAAGGACATACAGCATGCCGGTGT
CCAGGAGAGGCCCAAGTGAACATCTGCCTAGGAAGACATCAGGGCCGCTGAATGAGATCCTCATC
TGCGGGAAGTGTGGCCTGGTCCACATCCCATAGCGGGCAGTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235893  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MENRALDPGTRDSYGATSHLPNKGALAKVKNFKDLMSKLTEGQYVLCRWDGLYYLGKIKRVSSSKQS
CLVTFEDNSKYWVLWKDIQHAGVPGEEPKNICLGTSGPLNEILICGKCLVPHPHSGQC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_001286843

ORF Size: 390 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).

RefSeq: [NM\\_001286843.2](#)

RefSeq Size: 981 bp

RefSeq ORF: 393 bp

Locus ID: 26147

UniProt ID: [Q5T6S3](#)

Cytogenetics: 9q33.2

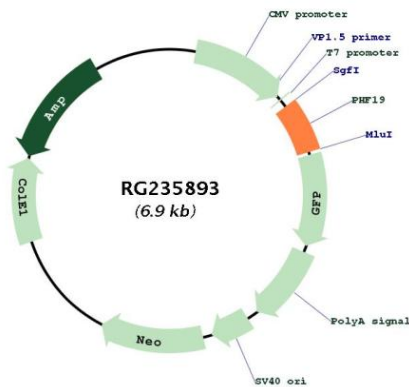
Protein Families: Druggable Genome

MW: 14.8 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 RG235893