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 RC220691

PHF19 (NM_001009936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF19 (NM_001009936) 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)

ORF Nucleotide Sequence:

>RC220691 representing NM_001009936
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAATCGAGCTCTGGATCCAGGGACTCGGGACTCCTATGGTGCCACCAGCCACCTCCCCAACAAGG
GGGCCCTGGCGAAGGTCAAGAACAACTTCAAAGACTTGATGTCCAAACTGACGGAGGGCCAGTATGTGCT
GTGCCGGTGGACAGATGGCCTGTACTACCTCGGGAAGATCAAGAGGGTCAGCAGCTCTAAGCAAAGCTGC
CTCGTGACTTTCGAAGATAATTCCAAATACTGGGTCCTATGGAAGGACATACAGCATGCCGGTGTTCCAG
GAGAGGAGCCCAAGTGCAACATCTGCCTAGGGAAGACATCAGGGCCGCTGAATGAGATCCTCATCTGCGG
GAAGTGTGGCCTGGGTTACCACCAGCAGTGCCACATCCCCATAGCGGGCAGTGCTGACCAGCCCCTGCTC
ACACCTTGGTTCTGCCGACGCTGCATCTTCGCACTGGCTGTGCGGGTGAGCCTTCCATCCTCCCCAGTCC
CTGCCTCTCCTGCCTCCTCCAGTGGGGCAGACCAGAGACTCCCATCACAGAGTCTGAGCTCCAAGCAGAA
GGGCCACACCTGGGCTTTGGAGACAGATAGCGCCTCTGCCACTGTCCTTGGCCAGGATTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220691 representing NM_001009936
Red=Cloning site Green=Tags(s)

MENRALDPGTRDSYGATSHLPNKGALAKVKNNFKDLMSKLTEGQYVLCRWTDGLYYLGKIKRVSSSKQSC
LVTFEDNSKYWVLWKDIQHAGVPGEEPKCNICLGKTSGPLNEILICGKCGLGYHQQCHIPIAGSADQPLL
TPWFCRRCIFALAVRVSLPSSPVPASPASSSGADQRLPSQSLSSKQKGHTWALETDSASATVLGQDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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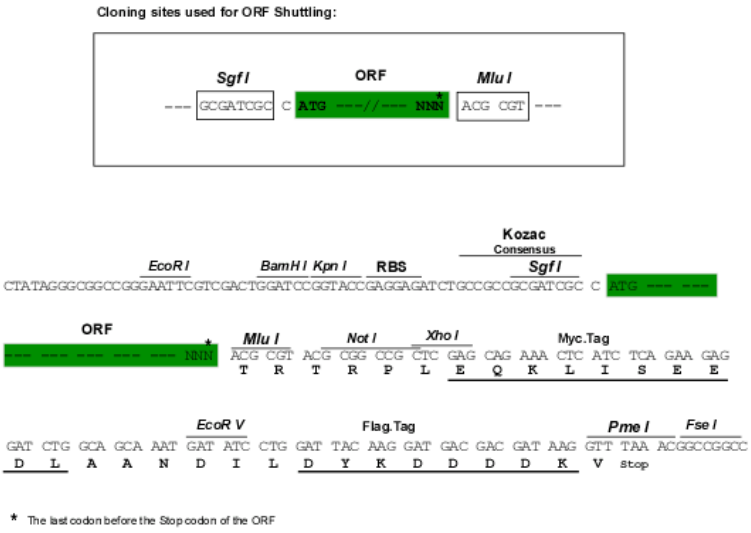
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001009936

ORF Size: 621 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_001009936.3

RefSeq Size: 1001 bp

RefSeq ORF: 624 bp

Locus ID: 26147

UniProt ID: Q5T6S3

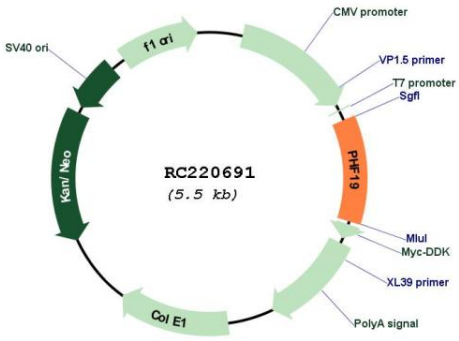
Cytogenetics: 9q33.2

Protein Families: Druggable Genome

MW: 22.3 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 RC220691