

Product datasheet for **MR209063**

Phf19 (NM_028716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf19 (NM_028716) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phf19
Synonyms:	3110009G19Rik; 3321402G02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209063 representing NM_028716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACTCAAGCTCTGGAACAGGGACTCTGGAAGCCTTTGGTGCCACCAGTCTTAACAAGGGGGGCC
 TGCTAAGACCAAAAAGAACTTCAAAGACTTGATGTCTAAGGTGACAGAGGGACAGTTCTGTCTATGCAG
 GTGGACAGACGGGCTATATTACCTTGGCAAGATCAAGCGGGTCAGCAGTCTTAAGCAAAGCTGCCTGTG
 ACTTTTGAAGATAATTCCAAATACTGGGTCTGTGGAAGGACATCCAGCATGCTGGTGTTCGGGAGAGG
 AGCCCAAGTGTGACGTCTGCATGGGAAGACTTCAGGGCCTATGAACGAGATCCTCATCTGTGGGAAGTG
 TGGCCTGGGTTACCACCAACAGTGCCACATCCCCATCGCAGTTGATGCCAACTGGCCCTCTCACTCAT
 TGGTCTGCCGACGCTGCATTTTCGCACTGGCTGTGAGGAAAGGTGGCGCTTTGAAGAAAGGCGCCATCG
 CCAAGACGCTGCAGGCAGTGAAATGGTCTGTCTACCAGCCGGAGGAACTCGATTGGGACTCGCCCCA
 TCGCACTAACAGCAGCAATGCTACTGCTACTGCGGCGGGCTGGAGAGTGGTACCTTCGGATGCTACAG
 TGCTACCGGTGTAGGCAGTGGTCCATGAGGCTTGACACAGTGCCTTAGTGAGCCTATGGTGTGGAG
 ACCGCTTCTACCTGTTCTCTGCTCCGTGTGTAACCAAGGCCAGAGTATATTGAGAGGCTGCCCTTGCG
 ATGGGTGGATATAGTTACCTGGCTCTATAACTTGGGAGTACAGAGCAAGAAGCGGACTTTGACTTT
 GAGGAGATCCTGGCCTTTGTCAACCATCACTGGGAGCTCTGCAGCTTGGCAAGCTACCAAGCAGCCCCCA
 TGACAGAACGAGGGCCACATCTCTCAACGCTCTCAACAGTTACAAGAGCCGGTTCCTGTGTGGCAAGGA
 AATTAAGAAGAAGAAATGCATCTCCGACTGCGCATCCGAGTCCCGCTGCCCTCCAGGAAAATGCTT
 CCCGACAGGGCGTTGATGCCAAGTGACAAAGGGACCTCCGAGCTGCTTCGTAAGAAAGGAAAGAGCAAGC
 CTGGTTTGTTCCTCAGGAACCCAGCAGCAGAAAAGGGGAGTTTATAGAAGAAAAGATCAAAGTTTTT
 GCTGGAAGATGCTATCCAGTAGTGACTTCACTCAGCCTGGAGCACAGACCACCACTAGCCAGTATA
 TTCGACTTCACTGGATGAAATTCAGAGTTTAAAAAGTGGCAGCTCAGGCCAGACCTTCTCTCAGATG
 TGGATTCTACCGACGACGCCAGCACCTCGGGTCTGCCTCCACCAGCCTCTCTACGACTCCAGATGGAC
 GGTAGGCAGCCGCAAGAGGAAGCTGACAGCCAAAGTGCACAGGCCCTGCGAGCAAGCAAGGGCGGCG
 GAGCTGGAGGGCGCTGCGCCTCAGACAGCAATGCAGAGGGAGCTGTGGTCTGAGCAGCCGGATGAAG
 GCATCGACAGCCACACTTGAAGCATCAGTGGAGACGACTCGTCCCTGTCCCACCTCAAGTCTCTAT
 CACCAACTACTTTGGTGCAGCTGGGCGTTGGCCTGCGGGGAAAATATCGGGTGTGGCGGGAGGGTC
 ACTCCAGAAGGCAAGGTTAGTACCTGTTGGAATGGGAGGGGACCACCCCTTAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209063 representing NM_028716
 Red=Cloning site Green=Tags(s)

METQALEPGTLEAFGATSPNKGGLSKTKKNFKDLMKVTGEQFVLCRWDGLYYLGKIKRVSSPKQSCLV
 TFEEDNSKYWVWVKDIQHAGVPGEEPCKDVMGKTSGPMNEILICGKCGLYHQCHIPIAVDANWPLLTH
 WFCRRCIFALAVRKGGALKKGAIAKTLQAVKMLSYQPEELDWDSPHRTNQQCYCYCGGPGEWYLRMLQ
 CYRCRQWFHEACTQCLSEPMVFGDRFYLFFCSVCNQPEYIERLPLRWVDIVHLALYNLGVQSKKRYDFD
 EEILAFVNHHWELLQLGKLTSTPMTERGPHLLNALNSYKSRFLCGKEIKKKKCFRLRIRVPPAPPKLL
 PDRALMPDSDKGTSELLRKKGKSKPGLLPQEPQQKRRVYRRKRSKFLLEDAIPSSDFTSAWSTDHHLASI
 FDFTLDEIQSLKSGSSGQTFSDVDSTDAASTSGSASTSLSYDSRWTVGSRRKRLTAKVHRPLRAKQRAA
 ELEGRCASDSNAEGAVGPEQPDEGIDSHTLESISGDDSSLSHLKSSITNYFGAAGRLACGEKYRVLARRV
 TPEGKVQYLLEWEGTTPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_028716

ORF Size: 1734 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_028716.4](#)
RefSeq Size: 3746 bp

RefSeq ORF: 1737 bp

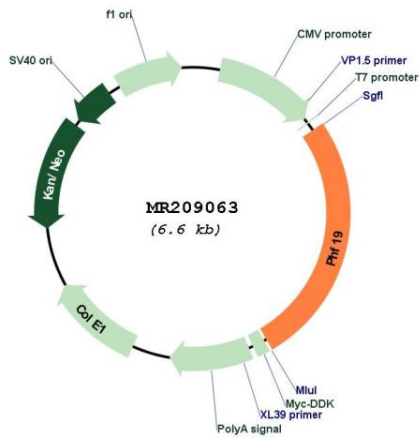
Locus ID: 74016

UniProt ID: [Q9CXG9](#)
Cytogenetics: 2 B

MW: 65.7 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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209063