

Product datasheet for **MG209063**

Phf19 (NM_028716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf19 (NM_028716) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phf19
Synonyms:	3110009G19Rik; 3321402G02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209063 representing NM_028716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGACTCAAGCTCTGGAACCAAGGACTCTGGAAGCCTTTGGTGCCACCAGTCTTAACAAGGGGGGCC
 TGCTAAGACCAAAAAGAACTTCAAAGACTTGATGTCTAAGGTGACAGAGGGACAGTTCGTGCTATGCAG
 GTGGACAGACGGGCTATATTACCTTGGCAAGATCAAGCGGGTCAGCAGTCTTAAGCAAAGCTGCCTGTG
 ACTTTTGAAGATAATTCCAAATACTGGGTCTGTGGAAGGACATCCAGCATGCTGGTGTTCGGGAGAGG
 AGCCCAAGTGTGACGTCTGCATGGGAAGACTTCAGGGCCTATGAACGAGATCCTCATCTGTGGGAAGTG
 TGGCCTGGGTTACCACCAACAGTGCCACATCCCCATCGCAGTTGATGCCAACTGGCCCTCTCACTCAT
 TGGTCTGCCGACGCTGCATTTTCGCACTGGCTGTGAGGAAAGGTGGCGCTTTGAAGAAAGGCGCCATCG
 CCAAGACGCTGCAGGCAGTGAAAATGGTCTGTCTACCAGCCGGAGGAAGTTCGATTGGGACTCGCCCCA
 TCGCACTAACCAGCAGCAATGCTACTGCTACTGCGGCGGGCCTGGAGAGTGGTACCTTCGGATGCTACAG
 TGCTACCGGTGTAGGCAGTGGTTCATGAGGCTTGACACAGTGCCTTAGTGAGCCTATGGTGTGGAG
 ACCGCTTCTACCTGTTCTCTGCTCCGTGTGTAACCAAGGCCAGAGTATATTGAGAGGCTGCCCTTGCG
 ATGGGTGGATATAGTTACCTGGCTCTCTATAACTTGGGAGTACAGAGCAAGAAGCGGACTTTGACTTT
 GAGGAGATCCTGGCCTTTGTCAACCATCACTGGGAGCTCTGCAGCTTGGCAAGCTACCAAGCAGCCCCCA
 TGACAGAACGAGGGCCACATCTCTCAACGCTCTCAACAGTTACAAGAGCCGGTTCCTGTGTGGCAAGGA
 AATTAAGAAGAAGAAATGCATCTCCGACTGCGCATCCGAGTCCCGCTGCCCTCCAGGAAAAGTCTT
 CCCGACAGGGCGTTGATGCCAAGTGACAAAGGGACCTCCGAGCTGCTTCGTAAGAAAGAAAAGAGCAAGC
 CTGGTTTGTTCCTCAGGAACCCAGCAGCAGAAAAGGGGAGTTTATAGAAGAAAAGATCAAAGTTTTT
 GCTGGAAGATGCTATTCCAGTAGTGACTTCACTCAGCCTGGAGCACAGACCACCACCTAGCCAGTATA
 TTCGACTTCACTGGATGAAATTCAGAGTTTAAAAAGTGGCAGCTCAGGCCAGACCTTCTCTCAGATG
 TGGATTCTACCGACGCAGCCAGCACCTCGGGTCTGCCTCCACCAGCCTCTCTACGACTCCAGATGGAC
 GGTAGGCAGCCGAAGAGGAAGCTGACAGCCAAAGTGCACAGGCCCTGCGAGCAAGCAAGGGCGGCG
 GAGCTGGAGGGCGCTGCGCCTCAGACAGCAATGCAGAGGGAGCTGTGGTCTGAGCAGCCGGATGAAG
 GCATCGACAGCCACACTTGAAGCATCAGTGGAGACGACTCGTCCCTGTCCCACCTCAAGTCTCTAT
 CACCAACTACTTTGGTGCAGCTGGGCGTTGGCCTGCGGGGAAAATATCGGGTGTGGCGGGAGGGTC
 ACTCCAGAAGGCAAGGTTCACTGTTGGAATGGGAGGGGACCACCCCTTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209063 representing NM_028716
 Red=Cloning site Green=Tags(s)

METQALEPGTLEAFGATSPNKGGLSKTKKFKDLMSKVTEGQFVLCRWTGGLYYLGIKRVSSPKQSCLY
 TFEEDNSKYWVWLKDIQHAGVPGPEPKCDVCMGKTSGPMNEILICGKCGLYHQCHIPIAVDANWPLLTH
 WFCRRCIFALAVRKGALKKGAIKTLQAVKMVLSYQPEELDWDSPHRTNQQCYCYCGGPGEWYLRMLQ
 CYRCRQWFHEACTQCLSEPMVFGDRFYLFCSVCNQGPYIERLPLRWVDIVHLALYNLGVQSKKRYFDF
 EEILAFVNHHELLQLGKLTSTPMTERGPHLLNALNSYKSRFLCGKEIKKKKCFRLRIRVPPAPPKLL
 PDRALMPDVKGTSELLRKKGKSKPGLLPQEPQQKRRVYRRKRSKFLLEDAIPSSDFTSAWSTDHHLASI
 FDFTLDEIQSLKSGSSGQTFSDVDSTDAASTSGSASTSLSYDSRWTVGSRRKRLTAKVHRPLRAKQRAA
 ELEGRCASDSNAEGAVGPEQPDEGIDSHTLESISGDDSSLSHLKSITNYFGAAGRLACGEKYRVLARRV
 TPEGKVQYLLEWEGTTPY

TRTRPLE - GFP Tag - V

Restriction Sites:

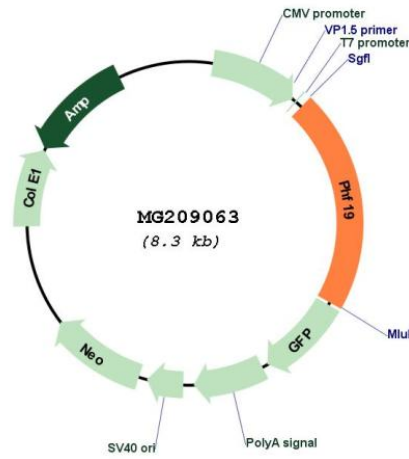
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]