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 MC204253

Phf19 (NM_028716) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf19 (NM_028716) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phf19
Synonyms:	3110009G19Rik; 3321402G02Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC027776

CCACGCGTCCGGGCTGACGCGCTGCCTCGCGAAGCTAATGGAGACTCAAGCTCTGGAACCAGGGACTCTG
GAAGCCTTTGGTGCCACCAGTCCTAACAAGGGGGGCCTGTCTAAGACCAAAAAGAACTTCAAAGACTTGA
TGTCTAAGGTGACAGAGGGACAGTTCGTGCTATGCAGGTGGACAGACGGGCTATATTACCTTGGCAAGAT
CAAGCGGGTCAGCAGTCCTAAGCAAAGCTGCCTTGTGACTTTTGAAGATAATTCCAAATACTGGGTCCTG
TGGAAGGACATCCAGCATGCTGGTGTTCCGGGAGAGGAGCCCAAGTGTGACGTCTGCATGGGGAAGACTT
CAGGGCCTATGAACGAGATCCTCATCTGTGGGAAGTGTGGCCTGGGTTACCACCAACAGTGCCACATCCC
CATCGCAGTTGATGCCAACTGGCCCCTCCTCACTCATTGGTTCTGCCGACGCTGCATTTTCGCACTGGCT
GTGAGGAAAGGTGGCGCTTTGAAGAAAGGCGCCATCGCCAAGACGCTGCAGGCAGTGAAAATGGTGCTGT
CCTACCAGCCGGAGGAACTCGATTGGGACTCGCCCCATCGCACTAACCAGCAGCAATGCTACTGCTACTG
CGGCGGGCCTGGAGAGTGGTACCTTCGGATGCTACAGTGCTACCGGTGTAGGCAGTGGTTCCATGAGGCT
TGCACACAGTGCCTTAGTGAGCCTATGGTGTTTGGAGACCGCTTCTACCTGTTCTTCTGCTCCGTGTGTA
ACCAAGGCCCAGAGTATATTGAGAGGCTGCCCTTGCGATGGGTGGATATAGTTCACCTGGCTCTCTATAA
CTTGGGAGTACAGAGCAAGAAGCGGTACTTTGACTTTGAGGAGATCCTGGCCTTTGTCAACCATCACTGG
GAGCTCCTGCAGCTTGGCAAGCTCACCAGCACCCCCATGACAGAACGAGGGCCACATCTCCTCAACGCTC
TCAACAGTTACAAGAGCCGGTTCCTGTGTGGCAAGGAAATTAAGAAGAAGAAATGCATCTTCCGACTGCG
CATCCGAGTCCCGCCTGCCCCTCCAGGAAAACTGCTTCCCGACAGGGCGTTGATGCCAAGTGACAAAGGG
ACCTCCGAGCTGCTTCGTAAGAAAGGAAAGAGCAAGCCTGGTTTGTTGCCTCAGGAACCCCAGCAGCAGA
AAAGGCGAGTTTATAGAAGAAAAAGATCAAAGTTTTTGCTGGAAGATGCTATTCCCAGTAGTGACTTCAC
CTCAGCCTGGAGCACAGACCACCACCTAGCCAGTATATTCGACTTCACACTGGATGAAATTCAGAGTTTA
AAAAGTGGCAGCTCAGGCCAGACCTTCTTCTCAGATGTGGATTCTACCGACGCAGCCAGCACCTCGGGGT
CTGCCTCCACCAGCCTCTCCTACGACTCCAGATGGACGGTAGGCAGCCGCAAGAGGAAGCTGACAGCCAA
AGTGCACAGGCCCCTGCGAGCAAAGCAAAGGGCGGCGGAGCTGGAGGGGCGCTGCGCCTCAGACAGCAAT
GCAGAGGGAGCTGTGGGTCCTGAGCAGCCGGATGAAGGCATCGACAGCCACACACTTGAAAGCATCAGTG
GAGACGACTCGTCCCTGTCCCACCTCAAGTCCTCTATCACCAACTACTTTGGTGCAGCTGGGCGGTTGGC
CTGCGGGGAAAAATATCGGGTGTTGGCGCGGAGGGTCACTCCAGAAGGCAAGGTTCAGTACCTGTTGGAA
TGGGAGGGGACCACCCCTTACTGATTACCCTCAGAGGCTGCCCAGATCCCTGCAAACCAAAGGAGGGGCA

View online »

GAAGAGGCCACTGGGTCCCTGTTTTCGCCAGGCTTGGGGTGGTGGTGGTGAAACAGGACATCCTGCCTGT
GGCCCCTGCCTGCTGCCTGCCAGGCCAAGGCCTGTGTGCTGCTGTACCTGAGTCTCTGAGACCCCATTGG
TATTCTCTCGTTGTCAATACTACACTCCACACCCCTCAAACTTTTTATTGGTTCCTCTGACAGTATCCTG
GCTCCAACCCCTGGATCTGTTTTTTGTTGTCCCCAATTCTCCATCTTCTGCCCTCTCACCCCTTTCAGGT
GTTTTGTGTGGACACACATCTTCCACGGGCATACACCCATCTGTCCCTCACTGGGCATGCTTCACTGGGT
CCTCACTAGGACCACAGTGAGGGAAGGGAACCTTGGGGGTCTTCTGCTTTCTCACTAGTACCCCTCACCC
CAGGAAGGTAGGGGGTGCCTGAGAAAGTTTAGGATGCCTAGGACCCAGAGTCTGGGGAGTGGTGAGCTGG
GTCTCTGCAGAAGGGACAAGAATCAGGGTCTTTTATTGAGGAGGGGAGACTAAGGAAGTCAGGCAGGGCC
AAGGTTTCCAGAAGTTTGCCTGTCCCAGCAACAACCCTTTACTGTTGTCAAGGATTGGGACCTGGCCCTG
CTGCATAGACGTGTCTTAAACACACAGATCTGGGAGGAAAGGATGGGGAAGAAGACTAAGCCAGATTAAA
TCCCATCCCAAACACTGTGTGTACAGCCACCACCTACTCCTGCCAGGGCCCCCTGGCCCCCCGTCCTTGG
CCTCTTCCAGGGATACATGCTGCAGTTAAATGTGAGAACCAAACCCCTGCCTCCTCTGGCCTGTGAAGCA
GCCTTGGCCCCACAGAGAAGCACAAAATATACCCCTCTCCTGCATGGCTCCTGCCTTGCCCTGGAGCTGA
CAATCACTTTGGGGACAGGTTTGGAGTTTACAAGGGCCTGAATCGTTGGTTCCCTTCAGAAAGGAAGGCT
TTGTCATCAATGGTACAAATAGAATTCTTAGAATGGTCAAGCTTAGCCGTGTCTGGGGAGAAACCAGGAG
GTGGGCAGGGAGCCCTTACTTTGCCTACAGAAACAGAAATTGACTCACTCAGTTGGAGAAATGGAAAGAA
CTGCCATTGAAGTGGGAGGCAAGGGCACCAGACTGAGACTAGCCTCCCTGACTGCTGCTGTAGCTTCCAG
CTGGGGGTGGGAAGATGGACCACATGGTGACATCAGACTATACCAAAGGTGCTGATATTCCCATGACTAG
GTCTGACCCCTTCACACCTTCCCGTGAGCATTAAGGAGGGTCCCTGCAGTAGGTTAGATGTCCCCTGCCT
TAAACCTCAGCCACCATGGTGCCTTGCAAAGAAACCTCGCCTCTCATAGACACAGCTACCTACTTCCCTC
TGCCTTCCTGTCTGGGCTCAGGCAGGGATAAGCAGATGGACACTGGGCCCAGTTGTCAGTCCCACAGCTG
CCGCCACTGAGGTCCCAAAGTGGGGCCTGGTGGAAGGAGAGTTGGGAAGCCAACTCCTAGGCTTGTGGGA
ACTGGGGTCAAATTTGTGGCTTCCTGTTGGCTTCGGTGAACATGGCAACCTCCAACACGTGTTTTCCAGG
CCACTGGGGAAGCCAGAGTTAGGATGGCTATCTGTACATCTGCCCCTCCTCTGCTGTGCCCCAGAAGCTC
TGGGCCTGAGGAGCAGGAAGGCAGGAGGGGTGCCCGTCCCGTTGGGGATCCTAGCACAAGGCCTGACCAG
GTCCCTGGACTTCCCATGGCAGCATTTCACTCCTACAAAATAATAGCTGCATTACTGCCAACTGATGGTA
TAACCCTGTGCACCTTTGAAAAGATTTTGGTTTTAAATTGCTGCTTTTAATAATATTTGTTATATTAAAG
TTATAATTGATGTGTCTGGTTTACAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_028716

Insert Size: 1737 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: BC027776, AAH27776

RefSeq Size:	3749 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]