

Product datasheet for **MC228303**

Phf1 (NM_001302397) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf1 (NM_001302397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phf1
Synonyms:	AW557215; D17Ertd455; D17Ertd455e; mPc; Pcl1; PHF; Phf2; Tctex3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228303 representing NM_001302397
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCTCCCCGGCTGAGCCGTTTGGTGCCCCCTCTCTGCGGATCCAGCTTCCCCTGCTCCCA
 CCTCAGGCCCCAGACCTCGGCTTTGGGAAGGCCAAGATGTGCTGGCCAGATGGACTGATGGGCTGCTGTA
 CTTGGGTACCATCAAAAAGGTGGACAGTCTCGAGAGGTGTGTCTGGTCCAGTTTGGAGCAGATTCCAG
 TTTCTGGTTCTATGGAAGGATATCAGCCCAGCTGCCCTCCCTGGGGAGGAGCTGCTCTGTTGTGTGTGTC
 GCTCTGAGACCGTGGTACCTGGGAACCGGCTGGTCACTGTGAGAAGTGTGCGCCATGCTTATCACCAGGA
 CTGTCACGTTCCAGGGCCCCGGCCCCGGAGAAGGAGAGGGCGCATCCTGGGTATGCCGCCAGTGTGTC
 TTTGCAATCGCCACTAAGAGGGGAGGCGCACTGAAGAAAGGTCCCTATGCCCGGGCCATGCTGGGCATGA
 AGCTCTCCCTGCCATACGGATTAAGAGGGCTGGACTGGGATGCTGGACATTTGAGCAACAGACAGCAGAG
 CTACTGCTACTGTGGAGGCCCTGGAGAGTGAACCTGAAAATGCTGCAGTGCCGGAGCTGCCTCCAGTGG
 TTCCATGAGGCCCTGCACCCAGTGTCTGAGCAAGCCCCTCTCTACGGAGACAGATTCTATGAATTTGAGT
 GCTGTGTGTGCCGGGGCGGCCCTGAGAAGTCCGGAGGTTACAGCTTCGCTGGGTGGATGTGGCCCATCT
 TGTCTCTACCACCTCAGCGTTTGTGTAAGAAGAAATATTTGATTTTGACCGAGAGATCTCCCTTC
 ACCTCTGAGAATTGGGACAGTCTGCTCCTGGGGAGCTCTCAGATACTCCCAAGGGAGAGCGCTCTTCCC
 AGCTCCTTTCTGCTCTTAACAGCCACAAGGACCGTTTCATTTTCAGGGAGGGAGATTAAGGCGAAAATG
 TCTTTTGGTCTCCATGCTCGGACCCCTCCTCCTGTGGAGCTTCTCACTGGAGATGGAGCCCCACCAGC
 TTCCCTTCAGGGCAGGGCCCTGGGGAGGGGTCTCACGTCCCCTGGGAAACGATGGAGGTCGGAGCCAG
 AACCCTTAAGGAGGAGGAGAGAAGGGGAAAGTGGAGGAACCTGGGGCCACCCACGGCAGCACAGCTGGCA
 TGGGTCCCGGGAGCAGAGGGCCCTGCAGGCCTCGGTGTCTCCACCACCCCGCCCTAACCAGAGCTAT
 GAGGGCAGCAGCGCTACAACCTCCGGCCACAGACGCCCGCTGTCTGCCAGCCCTATCCGGATGTTTCG
 CCTCCTTCCACCTTCTGCCAGCACTGCAGGGACCTCTGGGGACAGTGAACCCCGAGATAGGTACCTCT
 GGGACTTCACATTGGCTTCCCCACAGACACCCCTAAAAGTTCACCCCACTCAGTGACGGCCTCATCTTCC
 TCGGTCCAGCCCTGACCCAGGCTTTTCCAGACATTACCCCTTCTCCCTGTGCCGTAGTCTGTCTC
 CGGGGACTGGGGAGGAGTCCGAGGTGGGTTAGCTACCTGTCCCAGGGGACCCGTGAGGGTCTTTGC
 TCGAAGAGTGCAGCCTGACGGCTCTGTGCAGTACCTAGTTGAGTGGGAGGGGGGGCATCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001302397
- Insert Size:** 1677 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001302397.1](#), [NP_001289326.1](#)

RefSeq Size: 2444 bp

RefSeq ORF: 1677 bp

Locus ID: 21652

Cytogenetics: 17 13.6 cM

Gene Summary: The protein encoded by this gene belongs to the polycomb-like protein family, which is a component of polycomb repressive complex-2. This complex represses gene expression by catalyzing the trimethylation of histone H3 lysine 27 and is required for the regulation of developmental genes including homeotic genes. The gene is expressed primarily in testis tissue. Small interfering RNA-mediated knockdown in cultured cell lines results in changes in homeotic gene expression coincident with alterations in promoter methylation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1.