

Product datasheet for **MR223650**

Phf1 (NM_009343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf1 (NM_009343) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phf1
Synonyms:	AW557215; D17Ertd455; D17Ertd455e; mPc; Pcl1; PHF; Phf2; Tctex3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223650 representing NM_009343
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCTCCCCGGCTGAGCCGTTGGTGCCCCCTCTCTGGGATCCAGCTTCCCCTGCTCCCA
 CCTCAGGCCCCAGACCTCGGCTTTGGGAAGGCCAAGATGTGCTGGCCAGATGGACTGATGGCTGCTGTA
 CTTGGGTACCATCAAAAAGGTGGACAGTCTCGAGAGGTGTGTCTGGTCCAGTTTGGAGCAGATTCCAG
 TTTCTGGTTCTATGGAAGGATATCAGCCCAGCTGCCCTCCCTGGGGAGGAGCTGCTCTGTGTGTGTGTC
 GCTCTGAGACCGTGGTACCTGGGAACCGGCTGGTCACTGTGAGAAGTGTGCGCATGCTTATCACCAGGA
 CTGTCACGTTCCAGGGCCCCGGCCCTGGAGAAGGAGAGGGCGCATCTGGGTATGCCGCCAGTGTGTC
 TTTGCAATCGCCACTAAGAGGGGAGGCGCACTGAAGAAAGTCCCTATGCCCGGGCCATGCTGGCATGA
 AGCTCTCCCTGCCATACGGATTAAGAGGGCTGGACTGGGATGCTGGACATTTGAGCAACAGACAGCAGAG
 CTACTGCTACTGTGGAGGCCCTGGAGAGTGAACCTGAAAATGCTGCAGTGCCGGAGCTGCCTCCAGTGG
 TTCATATGAGGCCATCACCAAGTGTCTGAGCAAGCCCTCCTCTACGGAGACAGATTCTATGAATTTGAGT
 GCTGTGTGTGCCGGGGCGCCCTGAGAAGTCCGGAGGTTACAGCTTCGCTGGGTGGATGTGGCCCATCT
 TGTCTCTACCACCTCAGCGTTTGTGTAAGAAGAAATATTTGATTTTGACCGAGAGATCTCCCTTC
 ACCTCTGAGAATTGGGACAGTCTGCTCCTGGGGAGCTCTCAGATACTCCAAGGGAGAGCGCTCTTCCC
 AGCTCCTTTCTGCTCTTAACAGCCACAAGGACCGTTTCATTTTCAAGGAGGGAGATTAAGGCGAAAATG
 TCTTTTGGTCTCATGCTCGGACCCCTCCTCTGTGGAGCTTCTCACTGGAGATGGAGCCCCACCAGC
 TTCCCTTACAGGCAGGGCCCTGGGGAGGGGTCTCAGTCCCCTGGGAAACGATGGAGGTCGGAGCCAG
 AACCTTAAGGAGGAGGAGAGGGGAAAGTGGAGAACTGGGGCCACCCACGGCAGCACACAGTCGGCA
 TGGGTCCCGGGAGCAGAGGGCCCTGCAGGCCTCGGTGTCTCCACCACCCCGCCCTAACCAGAGCTAT
 GAGGGCAGCAGCGCTACAACCTCCGGCCACAGACGCCCGCTGTCTGCCAGCAGCCCTATCCGGATGT
 TCGCTCCTTCCACCTTCTGCCAGCACTGCAGGGACCTCTGGGGACAGTGAACCCCGAGATAGGTCACC
 TCTGGGACTTACATTGGCTTCCCCACAGACACCCCTAAAAGTTCACCCCACTCAGTGACGGCCTCATCT
 TCCTCGGTCCCAGCCCTGACCCAGGCTTTTCCAGACATTCACCCCTTCTCCCTGTGCCGTAGTCTGT
 CTCGGGGACTGGGGAGGAGTCCGAGGTGGGGTTAGCTACCTGTCCCGAGGGGACCCTGTGAGGGTCTT
 TGCTCGAAGAGTCCGGCCTGACGGCTCTGTGCAGTACCTAGTTGAGTGGGGAGGGGGGGCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223650 representing NM_009343
 Red=Cloning site Green=Tags(s)

MAQLPRLSRLGAPSLWDPASPAPTSGRPRRLWEGQDVLARWTDGLLYLGTIKKVDSAREVCLVQFEDDSQ
 FLVLWKDIPSPALPGEELLCCVCRSETVVPGNRLVSCEKCRHAYHQDCHVPRAPAPGEGEGASWVCRQC
 FAIATKRGGALKKGPYARMLGMKLSLPLKGLDWDAGHLNRRQSYCYCGGPGEWNLKMLQCRSLQW
 FHEACTQCLSKPLL YGDRFYEFECVCRGGPEKVRRLQLRWVDVAHLVLYHLVSVCKKKYDFDFREILPF
 TSENWDSLLL GELSDTPKGERSSQLLSALNSHKDRFISGREIKKRKCLFGLHARTPPPVELLTGDGAPTS
 FPSGQGGVSRPLGKRWRSEPEPLRRRQKGVKVEELGPPTAAHSRHGSREQRALQASVSPPPSPNQSY
 EGSSGYNFRPTDARCLPSSPIRMFASFHP SASTAGTSGDSEPPDRSPLGLHIGFPTDTPKSSPHSVTASS
 SSVPALTPGF SRHSPPSPLCRSLSPGTGGGVRGGVSYLSRGPVRLARRVRPDGVSQYLVEWGGGGIF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_009343

ORF Size: 1677 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_009343.3](#), [NP_033369.2](#)
RefSeq Size: 2429 bp

RefSeq ORF: 1680 bp

Locus ID: 21652

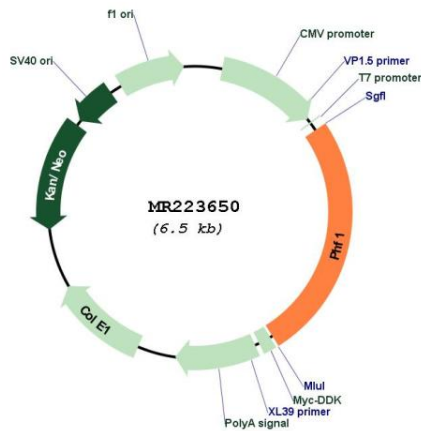
UniProt ID: [Q9Z1B8](#)

Cytogenetics: 17 13.6 cM

MW: 61.6 kDa

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]

Product images:



Circular map for MR223650