

Product datasheet for **MG223650**

Phf1 (NM_009343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf1 (NM_009343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phf1
Synonyms:	AW557215; D17Ertd455; D17Ertd455e; mPc; Pcl1; PHF; Phf2; Tctex3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG223650 representing NM_009343
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGCTCCCCCGCTGAGCCGTTTGGTGCCCCCTCTCTGCGGATCCAGCTTCCCCTGCTCCCA
 CCTCAGGCCCCAGACCTCGGCTTTGGGAAGGCCAAGATGTCTGGCCAGATGGACTGATGGCTGCTGTA
 CTTGGGTACCATCAAAAAGGTGGACAGTCTCGAGAGGTGTGTCTGGTCCAGTTTGGAGCAGATTCCAG
 TTTCTGGTTCTATGGAAGGATATCAGCCCAGCTGCCCTCCCTGGGGAGGAGCTGCTCTGTTGTGTGTGTC
 GCTCTGAGACCGTGGTACCTGGGAACCGGCTGGTCACTGTGAGAAGTGTGCGCATGCTTATCACCAGGA
 CTGTCACGTTCCAGGGCCCCGGCCCTGGAGAAGGAGAGGGCGCATCCTGGGTATGCCGCCAGTGTGTC
 TTTGCAATCGCCACTAAGAGGGGAGGCGCACTGAAGAAAGTCCCTATGCCCGGGCCATGCTGGCATGA
 AGCTCTCCCTGCCATACGGATTAAGAGGGCTGGACTGGGATGCTGGACATTTGAGCAACAGACAGCAGAG
 CTACTGCTACTGTGGAGGCCCTGGAGAGTGAACCTGAAAATGCTGCAGTGCCGGAGCTGCCTCCAGTGG
 TTCCATGAGGCCTGCACCAAGTGTCTGAGCAAGCCCTCCTCTACGGAGACAGATTCTATGAATTTGAGT
 GCTGTGTGTGCCGGGGCGCCCTGAGAAGTCCGGAGGTTACAGCTTCGCTGGGTGGATGTGGCCCATCT
 TGTCTCTACCACCTCAGCGTTTGTGTAAGAAGAAATATTTGATTTTGACCGAGAGATCCTCCCCTTC
 ACCTCTGAGAATTGGGACAGTCTGCTCCTGGGGAGCTCTCAGATACTCCAAGGGAGAGCGCTCTTCCC
 AGCTCCTTTCTGCTCTTAACAGCCACAAGGACCGTTTCATTTTCAGGGAGGGAGATTAAGAAAGCAAAATG
 TCTTTTGGTCTCATGCTCGGACCCCTCCTCCTGTGGAGCTTCTCACTGGAGATGGAGCCCCACCAGC
 TTCCCTTACAGGCAGGGCCCTGGGGAGGGGTCTCAGTCCCCTGGGAAACGATGGAGGTCGGAGCCAG
 AACCTTAAGGAGGAGGAGAGAAGGGGAAAGTGGAGAACTGGGGCCACCCACGGCAGCACAGATCGGCA
 TGGGTCCCGGGAGCAGAGGGCCCTGCAGGCCTCGGTGTCTCCACCACCCCGAGCCCTAACCCAGAGCTAT
 GAGGGCAGCAGCGCTACAACCTCCGGCCACAGACGCCCGCTGTCTGCCAGCAGCCCTATCCGGATGT
 TCGCCTCCTTCCACCTTCTGCCAGCACTGCAGGGACCTCTGGGGACAGTGAACCCCCAGATAGGTCACC
 TCTGGGACTTACATTGGCTTCCCACAGACACCCCTAAAAGTTCACCCCACTCAGTGACGGCCTCATCT
 TCCTCGGTCCCAGCCCTGACCCAGGCTTTTCCAGACATTCACCCCTTCTCCCTGTGCCGTAGTCTGT
 CTCGGGGACTGGGGAGGAGTCCGAGGTGGGGTTAGCTACCTGTCCCGAGGGGACCCTGTGAGGGTCTT
 TGCTCGAAGAGTCCGGCCTGACGGCTCTGTGCAGTACCTAGTTGAGTGGGAGGGGGGGCATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223650 representing NM_009343
 Red=Cloning site Green=Tags(s)

MAQLPRLSRLGAPSLWDPASPAPTSVGRPRRLWEGQDVLARWTDGLLYLGTIKKVDASREVLVQFEDDSQ
 FLVWLKDI SPAALPGEELLCCVCRSETVVPGNRLVSCCKRHHAYHQDCHVPRAPAPGEGASWVCRQCV
 FAIATKRGGALKKGPYARAMLGMKLSLPYGLKGLDWDAGHL SNRQSYCYCGPGGEWNLKMLQCRSCLQW
 FHEACTQCLSKPLLYGDRFYEFECVCRGGPEKVRRLQLRWVDVAHLVLYHLVSVCKKKYDFDREILPF
 TSENWDSLLL GELSDTPKGERSSQLLSALNSHKDRFISGREIKKRKCLFGLHARTPPPVVELLTDGAPTS
 FPSGQPGGGVSRPLGKRWRSEPEPLRRRQKGVKVEELGPPTAAHSRHSRQALQASVSPPPPSPNQSY
 EGSSGYNFRPTDARCLPSSPIRMFASFHPSASTAGTSGDSEPPDRSPLGLHIGFPTDTPKSSPHSVTASS
 SSVPALTPGF SRHSPPSPLCRSLSPGTGGGVRGGVSYLSRGPVVRVLRVRRPDGSVQYLVEWGGGGIF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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

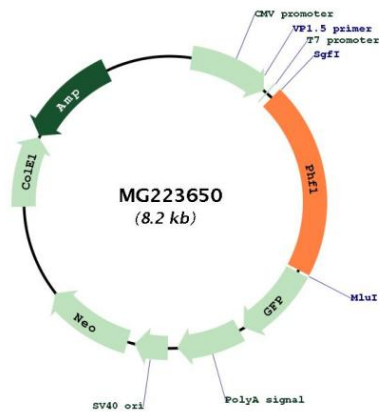
Locus ID: 21652

UniProt ID: [Q9Z1B8](#)

Cytogenetics: 17 13.6 cM

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 MG223650