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Product datasheet for RC221971

PHF1 (NM_002636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF1 (NM_002636) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHF1
Synonyms:	hPHF1; MTF2L2; PCL1; PHF2; TDRD19C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC221971 representing NM_002636
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCCC

ATGGCGCAGCCCCCCCGGCTGAGCCGCTCTGGTGCCTCCTCACTTTGGGACCCAGCTTCTCCTGCTCCCA
CCTCTGGCCCCAGGCCTCGGCTTTGGGAGGGTCAAGATGTGCTGGCCAGATGGACTGATGGGCTGCTATA
CTTGGGTACCATCAAAAAGGTGGACAGTGCTAGGGAGGTGTGTCTGGTCCAGTTTGAGGATGATTCGCAG
TTTCTGGTTCTATGGAAAGACATTAGCCCTGCTGCCCTCCCTGGAGAGGAACTCCTCTGTTGTGTCTGTC
GCTCTGAGACTGTGGTCCCTGGGAACCGGCTGGTCAGCTGTGAGAAGTGTCGCCATGCTTATCACCAGGA
CTGCCATGTTCCCAGGGCTCCAGCCCCTGGAGAGGGAGAGGGCACATCCTGGGTATGCCGCCAGTGTGTC
TTTGCGATCGCCACCAAGAGGGGAGGTGCCCTGAAGAAGGGCCCCTATGCCCGGGCCATGCTGGGTATGA
AGCTTTCTCTGCCATATGGACTGAAGGGGCTGGACTGGGATGCTGGACATCTGAGCAACCGACAGCAGAG
TTACTGTTACTGTGGTGGCCCTGGGGAGTGGAACCTGAAAATGCTGCAGTGCCGGAGCTGCCTGCAGTGG
TTCCATGAGGCCTGCACCCAGTGTCTGAGCAAGCCCCTCCTCTATGGGGACAGGTTCTATGAATTTGAAT
GCTGTGTGTGTCGCGGGGGCCCTGAGAAAGTCCGGAGACTACAGCTTCGCTGGGTGGATGTGGCCCATCT
TGTCCTGTATCACCTCAGTGTTTGCTGTAAGAAGAAATACTTTGATTTTGATCGTGAGATCCTCCCCTTC
ACTTCTGAGAATTGGGACAGTTTGCTCCTGGGGGAGCTTTCAGACACCCCCAAAGGAGAACGTTCTTCCA
AGCTCCTCTCTGCTCTTAACAGCCACAAGGACCGTTTCATTTCAGGGAGAGAGATTAAGAAGAGGAAATG
TTTGTTTGGTCTCCATGCTCGGATGCCTCCCCCTGTGGAGCCCCCTACTGGAGATGGAGCACTCACCAGG
GCAGGGCCCTGGGGGAGGGGTCTCACGTCCCCTGGGGAAGCGCCGGAGGCCGGAGCCAGAGCCCCTGAGG
AGGAGGCAGAAGGGGAAAGTGGAGGAGCTGGGGCCACCCTCAGCAGTGCGCAATCAGCCCGAGCCCCAGG
AGCAGAGGGAGCGGGCTCATCTGCAGAGGGCACTGCAGCAGCCCCATCCGGATGTTTGCTTCCTTCCACC
CTTCTGCCAGCACCGCAGGGACCTCTGGGGACAGTGGACCCCCAGACAGGTCACCCCTGGAACTTCACAT
TGGTTTCCCCACAGACATCCCTAAAAGTGCCCCCCACTCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

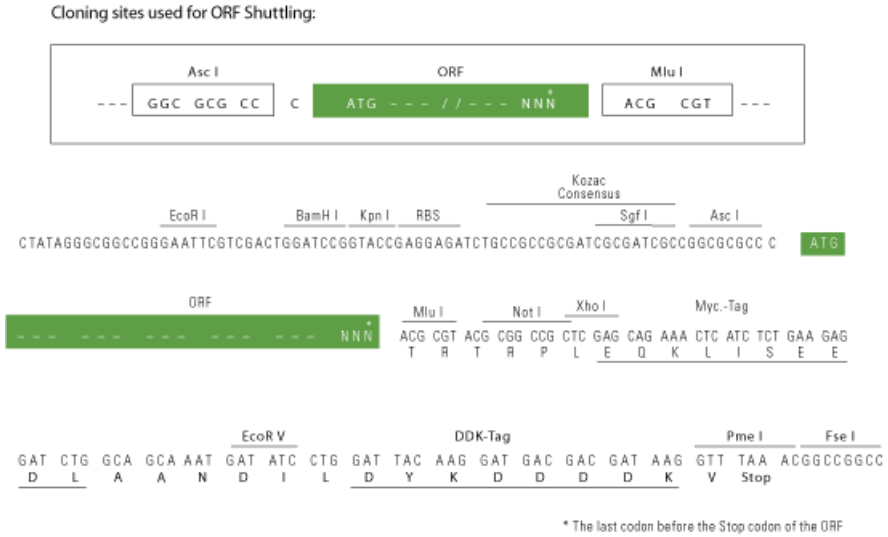
>RC221971 representing NM_002636
Red=Cloning site Green=Tags(s)

MAQPPRLSRSGASSLWDPASPAPTSGPRPRLWEGQDVLARWTDGLLYLGTIKKVDSAREVCLVQFEDDSQ
FLVLWKDISPAALPGEELLCCVCRSETVVPGNRLVSCEKCRHAYHQDCHVPRAPAPGEGEGTSWVCRQCV
FAIATKRGGALKKGPYARAMLGMKLSLPYGLKGLDWDAGHLSNRQQSYCYCGGPGEWNLKMLQCRSCLQW
FHEACTQCLSKPLLYGDRFYEFECCVCRGGPEKVRRLQLRWVDVAHLVLYHLSVCCKKKYFDFDREILPF
TSENWDSLLLGELSDTPKGERSSKLLSALNSHKDRFISGREIKKRKCLFGLHARMPPPVEPPTGDGALTR
AGPWGRGLTSPGEAPEAGARAPEEEAEGESGGAGATLSSAQSARAPGAEGAGSSAEGTAAAPSGCLLPST
LLPAPQGPLGTVDPQTGHPWNFTLVSPQTSLKVPPTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_002636

ORF Size: 1371 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_002636.4

RefSeq Size: 2008 bp

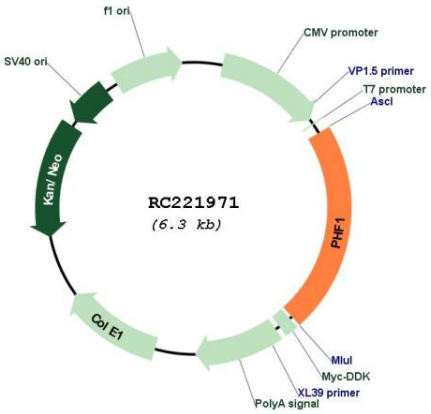
RefSeq ORF: 1374 bp

Locus ID: 5252

UniProt ID: O43189

Cytogenetics:	6p21.32
Domains:	PHD, TUDOR
Protein Families:	Druggable Genome, Transcription Factors
MW:	49.4 kDa
Gene Summary:	This gene encodes a Polycomb group protein. The protein is a component of a histone H3 lysine-27 (H3K27)-specific methyltransferase complex, and functions in transcriptional repression of homeotic genes. The protein is also recruited to double-strand breaks, and reduced protein levels results in X-ray sensitivity and increased homologous recombination. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]

Product images:



Circular map for RC221971