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Product datasheet for RG237787

PHF19 (NM_001286842) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF19 (NM_001286842) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHF19
Synonyms:	MTF2L1; PCL3; TDRD19B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG237787 representing NM_001286842.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCAATGTTACCGGTGCAGGCAGTGGTTCCACGAGGCCTGCACCCAGTGCCTCAATGAGCCCATG
ATGTTTGGAGACCGGTTTTACCTGTTCTTCTGCTCCGTGTGTAACCAGGGCCCAGAGTACATCGAGAGG
CTGCCCCTGCGATGGGTGGATGTGGTTCACCTGGCCCTCTATAATCTGGGGGTACAGAGCAAGAAGAAG
TACTTTGACTTTGAGGAGATTCTGGCCTTTGTCAACCACCACTGGGAGCTCCTGCAGCTTGGCAAGCTC
ACCAGCACCCCAGTGACAGATCGAGGACCACATCTCCTCAACGCTCTGAACAGTTATAAAAGCCGGTTC
CTCTGCGGCAAGGAGATCAAGAAGAAGAAGTGCATCTTCCGCCTGCGCATCCGCGTCCCACCCAACCCG
CCAGGGAAGCTGCTGCCTGACAAAGGACTGCTGCCAAATGAGAACAGCGCCTCCTCTGAGCTGCGTAAG
AGAGGAAAGAGCAAGCCTGGTTTGTTGCCTCACGAATTCCAGCAGCAGAAAAGGCGAGTTTATAGAAGA
AAAAGATCAAAGTTTTTGCTGGAAGATGCTATTCCCAGTAGTGACTTCACCTCAGCCTGGAGCACCAAC
CACCACCTGGCTAGCATATTTGACTTCACGCTGGATGAAATTCAAAGTTTAAAAAGTGCCAGCTCAGGC
CAGACCTTCTTCTCAGATGTCGACTCCACCGACGCTGCCAGCACCTCTGGCTCTGCCTCCACCAGCCTC
TCCTATGACTCCAGATGGACAGTGGGCAGCCGAAAGAGGAAGCTGGCAGCCAAGGCATACATGCCCCTG
CGGGCAAAGCGGTGGGCAGCTGAGCTGGATGGACGCTGCCCCTCGGACAGCAGTGCAGAGGGGGCTTCA
GTCCCCGAGCGGCCAGACGAAGGCATTGACAGCCACACATTTGAGAGCATCAGTGAAGATGACTCATCC
CTGTCCCACCTCAAGTCATCTATCACCAACTACTTTGGTGCAGCTGGGCGGTTGGCCTGTGGGGAGAAG
TACCAGGTGTTGGCTCGGAGGGTCACACCTGAGGGCAAGGTTCAGTACCTGGTGGAGTGGGAAGGGACC
ACCCCTTAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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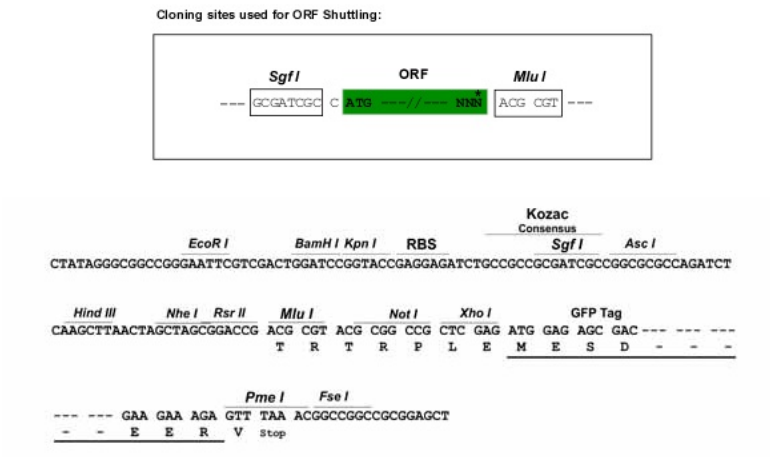
Protein Sequence:

>Peptide sequence encoded by RG237787
Blue=ORF Red=Cloning site Green=Tag(s)

MLQCYRCRQWFHEACTQCLNEPMMFGDRFYLFFCSVCNQGPEYIERLPLRWVDVVHLALYNLGVQSKKK
YFDFEEILAFVNHHWELLQLGKLTSTPVTDRGPHLLNALNSYKSRFLCGKEIKKKKCIFRLRIRVPPNP
PGKLLPDKGLLPNENSASSELRKRGKSKPGLLPHEFQQQKRRVYRRKRSKFLLEDAIPSSDFTSAWSTN
HHLASIFDFTLDEIQSLKSASSGQTFFSDVDSTDAASTSGSASTSLSYDSRWTVGSRKRKLAAKAYMPL
RAKRWAAELDGRCPSDSSAEGASVPERPDEGIDSHTFESISEDDSSLSHLKSSITNYFGAAGRLACGEK
YQVLARRVTPEGKVQYLVEWEGTTPY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286842

ORF Size: 1113 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.

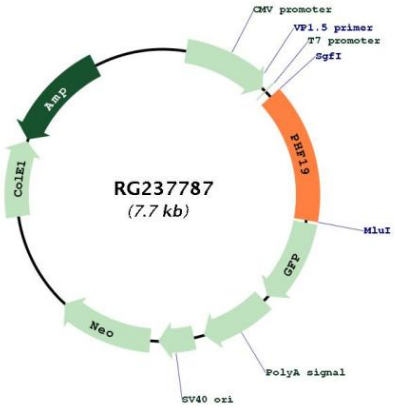
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: NM_001286842.1, NP_001273771.1

RefSeq Size: 3547 bp

RefSeq ORF:	1116 bp
Locus ID:	26147
Cytogenetics:	9q33.2
Protein Families:	Druggable Genome
MW:	42.6 kDa
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). Isoform 1 and isoform 2 inhibit transcription from an HSV-tk promoter. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG237787