

Product datasheet for MR217466

Pphln1 (NM_175363) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pphln1 (NM_175363) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pphln1
Synonyms:	CR; HSPC206; HSPC232
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217466 representing NM_175363 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTCTGAGGGACGCTATGACTACGACCGACTTCGAGAGAACGCGTGCCTCCCGGAGCCATCCCA
GTGATGAATCTGGCTACAGATGGCTAAGAGATGATCATTCCACAAGCCGGCAGCCTGACTACAGGGACAT
GAGAGACGGCTTCAGAAGAAAGAGTTTCTACTCTCACATTATTCGAGAGATCGGTCTCCCATAAAAGG
GACGCTCCCTTTCAGAGAATCCCTGTCGGCCGGAAGGACTCCCACACAGCAGATCCGGCTCCAGTG
TCAGCAGCAGAAGCTATTCTCCAGAGCGAAGCAGGACTCACTCCTCCATCAGTCTCAGCATAGAAAGTC
CTCGCGTGTCCGTGCTTCTACAAACGACAGAATGAAGCAATTCGTGGAAGAGGTAAAGAGAGATCCATC
CAGTCAGTGAAAACCTCGAGAGATGCGTCACCCCTCAAGTTCCTCAGCAGTTGCTTCATCCAAGGCGTTAG
ACAAACCCAGCAGGCTAACTGAGAAGGAACTTGCTGAGGCTGAAAGCAAGTGGGCTAATGAAACACTAGA
GAAGTCAGACGAAAGTAACTTGGCTGAAATGAATGAGTTTGAGGCGGGATCCACGGCACCCCTTATTTATT
GACCAGACAGAAGAACCAGTCAAACACAGTAGATGGTACAGAAGTGTATGAAGACAGCCAGCTCAGCA
ACCGCTCTAAAGCCATTGCCTCGAAAACCAAGAGATTGAGCAGGTTTACCGACAAGACTGCGAGACTTT
CGGGATGGTGGTAAAAATGCTGATTGAAAAAGATCCCTCATTAGAAAAGTCTGTCCAGTTTGCACTGAGG
CAGAATTACACGAGATAGGTGAGCGCTGCGTGGAAGAGCTCAAGCGTTTCATTACTGAGTATGACAAC
CTGCTCAGGACTTTGGAGACCCCTTT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217466 representing NM_175363
Red=Cloning site Green=Tags(s)

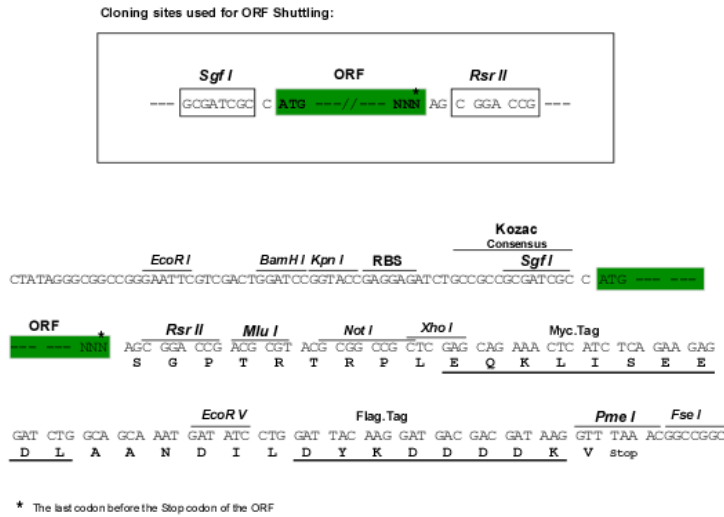
MWSEGRYDYDRLPRERVPPRSHPSDESGYRWLRDDHSTSRQPDYRDMRDGFRKRSFYSSHYSDRSPHKR
 DAPFFRESVPVGRKDSPHSRSGSSVSSRSYSPERSRTHSFHQSQHRKSSRVGASYKRQNEAIRGRGKERSI
 QSVKTSRDASPSSSAVASSKALDKPSRLTEKELAEAESKWANETLEKSDENLAEMNEFEAGSTAPLFI
 DQTEEPESNTVDGTEL YEDSQLSNRSKAIASKTKEIEQVYRQDCETF GMVVKMLIEKDP SLEKSVQFALR
 QNLHEIGERCVEELKRFITEYDNSAQDFGDPF

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9042_d11.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_175363

ORF Size: 936 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_175363.4](#), [NP_780572.1](#)

RefSeq Size: 3828 bp

RefSeq ORF: 939 bp

Locus ID: 223828

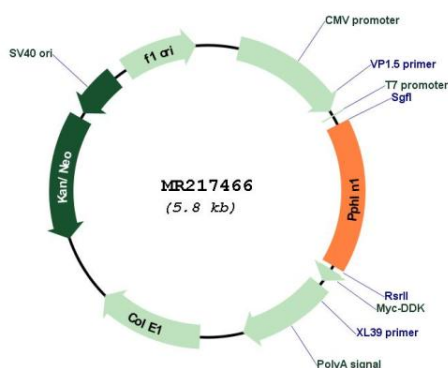
UniProt ID: [Q8K2H1](#)

Cytogenetics: 15 E3

MW: 36.4 kDa

Gene Summary: Component of the HUSH complex, a multiprotein complex that mediates epigenetic repression. The HUSH complex is recruited to genomic loci rich in H3K9me3 and is probably required to maintain transcriptional silencing by promoting recruitment of SETDB1, a histone methyltransferase that mediates further deposition of H3K9me3. In the HUSH complex, contributes to the maintenance of the complex at chromatin. Acts as a transcriptional corepressor and regulates the cell cycle, probably via the HUSH complex. The HUSH complex is also involved in the silencing of unintegrated retroviral DNA: some part of the retroviral DNA formed immediately after infection remains unintegrated in the host genome and is transcriptionally repressed. May be involved in epithelial differentiation by contributing to epidermal integrity and barrier formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217466