

Product datasheet for MR224783

Phf13 (NM_172705) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf13 (NM_172705) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phf13
Synonyms:	BC029632; Phf5; SPOC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224783 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTCCGACTCCTGCGCCGCCCTTCCACCCGAGGAGTACTCCCCACTTGTAAAGAGGCCCGGA
CTGTGGAAGACTTCAACAAATCTGCACCTTCGTCTTGGCATATGCGGGCTACATCCCCTACCCAAAGGA
GGAGCTCCCCCTGAGGAGCAGTCCCAGCCCCGCAACAGCACTGCCGGGACCATTGACAGCGACGGCTGG
GACTGGTTTCTCTGACATCACGCCTTCAGTCCCGACCGATGCTTCAGCCACCTGCAGCCTTCCCTCT
TGCAGAGAGCTAAGCCCAGTAACTACCTTCTGGACAGGAAGACAAGTACAAGCTGAAGAAGAAGAAGAG
GAGGAAGCGCAGGGACAGCGACATACCTGTGAAGGAGGATTTCAGGGAGAGCCTGCTGAAGCTGGAAGCT
GCAGACCCATATGTGGAGACTCCCTCAAGCCCCACCATGCAGGATATCCCCAGGCGTCTGCTGACCCCT
GCTCAGGCTGGGACTCTGACACACCCTCAAGTGGCTCTTGTGCTACTGTGTACCTGATCAGGTCACAGA
AATAAAAAGTGAAGGAAAACGGACTATTGTCCGCCAGGAAAGCAGGTGGTGTCCGAGACGAAGACAGC
ACTGGCAATGATGAAGACATCATGGTGGACTCAGATGATGATTCTGGGACCTCGTACCTGTTTCTGCA
TGAAGCCCTTTGCCGGCCGCCCATGATCGAGTGAACGAGTGCCACACCTGGATTACCTGTCTGTGC
AAAGATCCGCAAGTCCAATGTCCCGAAGTTTTGTCTGCCAAAAGTGCCGGGACTCCAAGTTTGATATC
CGTCGCTCAACCGGTCCCGAATGGGCTCCCGAAGCTGTTTCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224783 protein sequence
Red=Cloning site Green=Tags(s)

MDSDSCAAAPHPEEYSPTCKRRRTVEDFNKCTFVLAYAGYIPYPKEELPLRSSSPANSTAGTIDSDGW
 DTGFSDITPSVPDRCFSHLQPSLLQRAKPSNYLLDRKTTDKLKKKRRRKRSDIPVKEGFRESLLKLEA
 ADPYVETPSSPTMQDIPQASADPCSGWSDTPSSGSCATVSPDQVTEIKTEGKRTIVRQ GKQVVRDEDS
 TGNDDEDIMVDSDDSDWDLVTCFCMKPFAGRPMIECNECHTWIHLSCAKIRKSNVPEVFCQKCRDSKFDI
 RRSNRSRMGSRKLF LD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172705

ORF Size: 891 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_172705.2](#), [NP_766293.2](#)

RefSeq Size: 3128 bp

RefSeq ORF: 891 bp

Locus ID: 230936

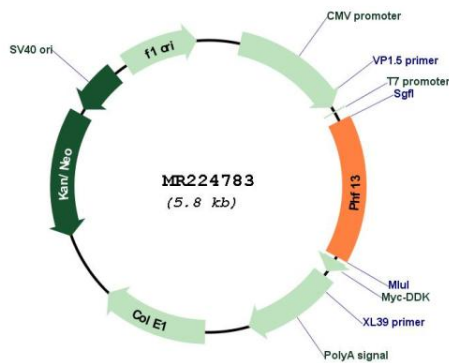
UniProt ID: [Q8K2W6](#)

Cytogenetics: 4 E2

MW: 33.4 kDa

Gene Summary: Modulates chromatin structure. Required for normal chromosome condensation during the early stages of mitosis. Required for normal chromosome separation during mitosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224783