

## Product datasheet for **MG224783**

### Phf13 (NM\_172705) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phf13 (NM_172705) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phf13
Synonyms:	BC029632; Phf5; SPOC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224783 representing NM_172705 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTCCGACTCCTGCGCCGCCCTTCCACCCGAGGAGTACTCCCCACTTGTAAAGAGGCGCCGGA  
CTGTGGAAGACTCAACAAATTCTGCACCTTCGTCTTGGCATATGCGGGCTACATCCCCTACCCAAAGGA  
GGAGCTCCCCCTGAGGAGCAGTCCCAGCCCCGCCAACAGCACTGCCGGGACCATTGACAGCGACGGCTGG  
GACTGGTTTCTCTGACATCACGCCTTCAGTGCCGACCGATGCTTCAGCCACCTGCAGCCTTCCCTCT  
TGCAGAGAGCTAAGCCCAGTAACACTCTTCTGGACAGGAAGACAAGTACAAGCTGAAGAAGAAGAAGAG  
GAGGAAGCGCAGGGACAGCGACATACCTGTGAAGGAGGGATTGAGGAGAGCCTGCTGAAGCTGGAAGCT  
GCAGACCCATATGTGGAGACTCCCTCAAGCCCCACCATGCAGGATATCCCCAGGCGTCTGCTGACCCCT  
GCTCAGGCTGGGACTCTGACACACCCTCAAGTGGCTCTTGTGCTACTGTGTACCTGATCAGGTCACAGA  
AATAAAAAGTGAAGGAAAACGGACTATTGTCCGCCAGGAAAGCAGGTGGTGTCCGAGACGAAGACAGC  
ACTGGCAATGATGAAGACATCATGGTGGACTCAGATGATGATTCTGGGACCTCGTACCTGTTTCTGCA  
TGAAGCCCTTTGCCGGCCGCCCATGATCGAGTGAACGAGTGCCACACCTGGATTACCTGTCTGTGC  
AAAGATCCGCAAGTCCAATGTCCCGAAGTTTTGTCTGCCAAAAGTGCCGGGACTCCAAGTTTGATATC  
CGTCGCTCAACCGGTCCCGAATGGGCTCCCGAAGCTGTTTCTGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224783 representing NM\_172705  
 Red=Cloning site Green=Tags(s)

MSDSDCAAAFHPEEYSPTCKRRRTVEDFNKFCFVLAYAGYIPYPKEELPLRSSPSANSTAGTIDSDGW  
 DTGFSDITPSVPDRCFSHLQPSLLQRAKPSNYLLDRKTTDKLKKKRRRKRSDIPVKEGFRESLLKLEA  
 ADPYVETPSSPTMQDIPQASADPCSGWSDTPSSGSCATVSPDQVTEIKTEGKRTIVRQKQVVFREDS  
 TGNDDEDIMVSDDDSDWLVTCFCMKPFAGRPMIECNECHTWIHLSCAKIRKSNVPEVFCQKCRDSKFDI  
 RRSNRSRMGSRKLFLLD

TRTRPLE - GFP Tag - V

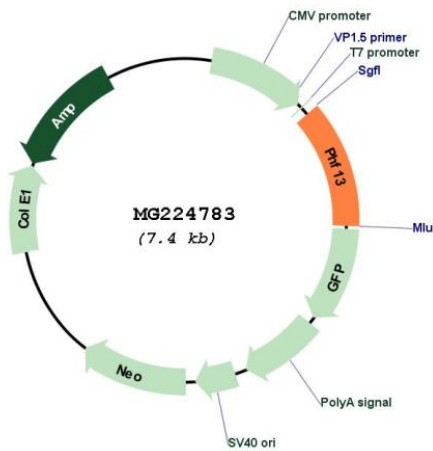
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_172705

**ORF Size:** 888 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172705.2</a> , <a href="#">NP_766293.2</a>
<b>RefSeq Size:</b>	3128 bp
<b>RefSeq ORF:</b>	891 bp
<b>Locus ID:</b>	230936
<b>UniProt ID:</b>	<a href="#">Q8K2W6</a>
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	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]