

## Product datasheet for MR224459

### Phf20 (NM\_172674) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phf20 (NM_172674) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phf20
Synonyms:	6820402020Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224459 representing NM_172674 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACCAAGCACCCACCTAACAGACGAGGAATCAGCTTTGAAGTGGGAGCCCAGTTGGAAGCTCGGGACC  
GTTTAAAAAACTGGTATCCAGCTCATATTGAAGACATTGACTACGAAGAAGGGAGAGTTCTCATCCATTT  
CAAGCGTTGGAACCATCGTTACGATGAGTGGTTTTGCTGGGACAGTCCTTATCTGCGCCCTTTAGAGAAG  
ATCCAGCTGAGGAAAGAGGGTTTACATGATGAGGATGGCTCTTCTGAATTTCAAATAAACGCAAGTGC  
TTGCTTGCTGGTCTGACTGTCGATTTTATCCAGCCAGAGTCACTGCTGTGAACAAGGATGGTACTTACAC  
TGTGAAATTTTATGATGGAGTAGTTCAAACGTCAAACATATTCAATGTCAAAGCTTTTTCCAAAGATCAG  
AATATTGTGGTAATGCTAGGCCAAAGAAACAGACCACAAAAGTCTTTCATCGTCTCCTGAGAAACGAG  
AGAAGTTTAAAGAACAGAGAAAAGTACCGGTCATGTGAAGAAAGACAAAGTGGAAAAAGCCTTAAAGAC  
AGAAAAGCGGCCAAGCAACCTGACAAAAGGGAAAGCTGATCTGCTCAGAAAAAGGCAAAGTGTGAGAG  
AAAAGCCTTCTAAGAACGAAAAGGAAGATAAGGAGAACATTCGAGAACGAGCGGGAGTACTCCGGGG  
ATGCCCAGGTGGAAAAGAAGCCTGAGAAGGACCTGTGAAGAACCCACAAGAGAACCTGAAGGACCCAAA  
AAGAAAACGAGGACAGACCCCTTCCATAACTCCTACGGCTGTGGATTCAAACCTCAAACCTTTGCAACCA  
ATAACATTGGAATTGAGAAGACGAAAATATCAAACGAAGTGACACCCCATTAAGCGTCCCAGACTCG  
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CATACGGTTGATACAAACCCTCTACCAGACAAGTCAACCCAGTCCCAAGGATTCTGCTGAAGGTGAGTTGA  
AGTCTCCATTGGAAGCTGGCCAGGTCTCTTCTGCATTAACCTGCCACCCATTGGGGATGGCCTGGGGGC  
AGCAGATTTGGAGTTGAATTGCAAGTCAATGGGAGAAAACACGATGAAAACAGAACCTGTTCTCCTCTT  
GCTGAGGTGCAGGAAGTTCAACTGTTGAAGTTCAAATACTTTGAAGAAAGTTGATGACTCTGTGACGT  
TGAATGTGCCAGCTGTGGACCTAGACCACAAGTTTCGATGCAAGTTCTGGACTGTTTGAATTTTCCG  
CAAGGCTAAATTGCTGCACTATCATATGAAGTATTTCCATGGGATGGAGAAGTCAACAGGCCAGAGGAG  
GGCCAGGGAAGACGCATGTACAGACTCGGGGCTCTGCGGTGCCTGACAAGACAAGCCAGGAGAGCCTAA



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CCAGGAAGCGGGTCTCTGCCAGTTCCTCCCACTGCAAAAGAGAAGGAAAAGACTAAAGAGAAGAAATTC  
 AGAACTTGTGAGAGTGAAGCCAAAGAAGAAAAAGAAAAAGAAAAAGAAACCAAGCCTGAATGTCCTCTGC  
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 CATTGAGAAGGAGCTGGACGTCTGGAGAGCTGGCTGGACTACACTGGGGAGCTGGAGCCCCAGAGCCA  
 CTGGCCAGGCTTCCGAGCTCAAGCACTGCATCAAGCAGCTGTGACTGACCTGGCAAGGTGCAGCAGA  
 TCGCCCTCTGCTGCTCGACA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGTTTAA

**Protein Sequence:**

>MR224459 representing NM\_172674  
 Red=Cloning site Green=Tags(s)

MTKHPPNRRGISFEVGAQLEARDRLKNWYPAHIEDIDYEEGRVLIHFKRWNHRYDEWFCWDSPLYLRPLEK  
 IQLRKEGLHDEDGSSEFQINQQVLACWSDCRFYPARVAVNKGDTYTVKFDYDGVVQTVKHIHVKAFAFKDQ  
 NIVGNARPKETDHSLSSEKREKFKERKVTNVNKKDKVEKALKTEKRPKQPDKEGLICSEKGVSE  
 KSLPKNEKEDKENISENEREYSGDAQVEKKPEKDLVKNPQENLKEPKRKRGRPPSITPTAVDSNSQTLQP  
 ITLELRRRKISKRSDTPLKRPRLDKNSPQEQSKRSENSDKDLRRRSSRLSTNGTREILDPSIIVDLV  
 HTVDTNPLPDKSPSAKDSAEGQLKSPLEAGQVSSAL TCHPIGDGLGAADLELNCKSMGENTMKTEPV SPL  
 AEVQEVSTVEVPNTLKKVDDSVTLNVPVLDLHKFRCKVLDCLKFFRKAKLLHYHMKYFHGMEKSPEPEE  
 GPGKTHVQTRGSAPDKTSQESL TRKRVSASSPTAKEKEKTKEKKFKELVRVKPKKKKKKKKTKPEPCPC  
 SEDISDTSQEPSPPKTF AVTRCGSSHKPGVHMSPQLHGSNDNGNHKGLKTCEEDNLSESSSESFLWSDEE  
 YGQDQVDVTTNPDEELEGGDDRYDFEVVRCICEVQEENDFMIQCEECQCWQHGVCMGLLEENVPEKYTCYVC  
 QDPPGQRPGFKYWYDKEWL SRGHMGLAFLDQNYSHQNARKIVATHQLLGDVQRVIQVLHGLQLKMSILQ  
 SREHPDLQLWCQPKQHSGEGRAHPRHIHITDARSEESPSYRTLNGAVEKPSLPRSVESYITSEHCYQ  
 KPRAYYPAVEQRLVVETRGSALDAAVSPLCENGDDSLSPRLGWPIDQDRSRGIDPKPSSPKVREYISK  
 VLPEETPARKLLDRGEGLVSSQHQQFNLLTHVESLQDEVTHRMDSIEKELDVLESWLDYTGELPEPEP  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

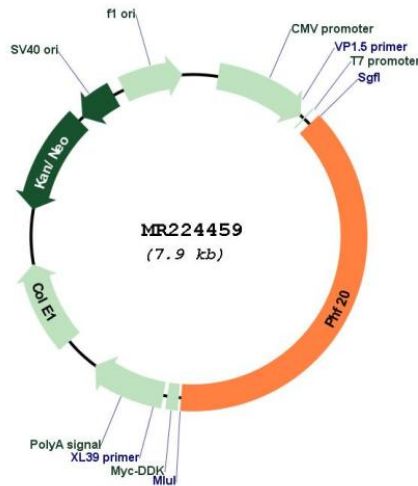
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_172674

ORF Size:

3030 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](#)

<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_172674.2</a> , <a href="#">NP_766262.2</a>
<b>RefSeq Size:</b>	5752 bp
<b>RefSeq ORF:</b>	3033 bp
<b>Locus ID:</b>	228829
<b>UniProt ID:</b>	<a href="#">Q8BLG0</a>
<b>Cytogenetics:</b>	2 H1
<b>MW:</b>	115.7 kDa
<b>Gene Summary:</b>	Contributes to methyllysine-dependent p53/TP53 stabilization and up-regulation after DNA damage (By similarity). Methyllysine-binding protein, component of the MOF histone acetyltransferase protein complex. Not required for maintaining the global histone H4 'Lys-16' acetylation (H4K16ac) levels or locus specific histone acetylation, but instead works downstream in transcriptional regulation of MOF target genes. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. [UniProtKB/Swiss-Prot Function]