

## Product datasheet for **MG224459**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phf20 (NM_172674) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phf20
Synonyms:	6820402020Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224459 representing NM_172674 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCAAGCACCCACCTAACAGACGAGGAATCAGCTTTGAAGTGGGAGCCAGTTGGAAGCTCGGGACC  
GTTTAAAAAACTGGTATCCAGCTCATATTGAAGACATTGACTACGAAGAAGGGAGAGTTCTCATCCATTT  
CAAGCGTTGGAACCATCGTTACGATGAGTGGTTTTGCTGGGACAGTCCTATCTGCGCCCTTTAGAGAAG  
ATCCAGCTGAGGAAAGAGGGTTTACATGATGAGGATGGCTCTTCTGAATTTCAAATAAACAGCAAGTGC  
TTGCTTGCTGGTCTGACTGTCGATTTTATCCAGCCAGAGTCACTGCTGTGAACAAGGATGGTACTTACAC  
TGTGAAATTTTATGATGGAGTAGTTCAAAGTGTCAAACATATTCATGTCAAAGCTTTTTCCAAAGATCAG  
AATATTGTGGTAATGCTAGGCCTAAAGAAACAGACCACAAAAGTCTTTCATCGTCTCCTGAGAAACGAG  
AGAAGTTTAAAGAACAGAGAAAAGTACCGGTCAATGTGAAGAAAGACAAAGTGGAAAAAGCCTTAAAGAC  
AGAAAAGCGGCCCAAGCAACCTGACAAAGAGGGAAAGCTGATCTGCTCAGAAAAAGGCAAAAGTGTGAGAG  
AAAAGCCTTCTAAGAACGAAAAGGAAGATAAGGAGAACATTTCCGAGAACGAGCGGGAGTACTCCGGGG  
ATGCCAGGTGAAAAGAAGCCTGAGAAGGACCTTGTGAAGAACCACAAGAGAACCTGAAGGAGCCAAA  
AAGAAAACGAGGCAGACCCCTTCCATAACTCTACGGCTGTGGATTCAAACCTCAAACCTTTGCAACCA  
ATAACATTGGAATTGAGAAGACGGAATAATCAAACGAAGTACACCCCATTAAGCGTCCCAGACTCG  
ACAAAAATTCACCCAGGAACAGTCAAAAAACGCTCTGAAAATAGTGACAAAGACTTATCCAGGAGACG  
GTCTCCAGGCTGTCCACTAATGGGACCCGTGAGATCCTAGATCCTGACTCGATTGTACCTGATCTGGTT  
CATACGGTTGATACAAACCTCTACCAGACAAGTACCCAGTGCCAAGGATTCTGCTGAAGGTGAGTTGA  
AGTCTCCATTGGAAGCTGGCCAGGTCTCTTCTGCATTAACCTGCCACCCATTGGGGATGGCCTGGGGGC  
AGCAGATTTGGAGTTGAATTGCAAGTCAATGGGAGAAAACACGATGAAAACAGAACCTGTTTCTCTCTT  
GCTGAGGTGCAGGAAGTTCAACTGTTGAAGTTCCAAATACTTTGAAGAAAGTTGATGACTCTGTGACGT  
TGAATGTGCCAGCTGTGGACCTAGACCACAAGTTTCGATGCAAGGTTCTGGACTGTTTGAATTTTTCCG  
CAAGGCTAAATTGCTGCACTATCATATGAAGTATTTCCATGGGATGGAGAAGTACCAGAGCCAGAGGAG



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GGCCAGGGAAGACGCATGTACAGACTCGGGGCTCTGCGGTGCCTGACAAGACAAGCCAGGAGAGCCTAA  
 CCAGGAAGCGGGTCTCTGCCAGTCCCCCACTGCAAAAAGAGAAGGAAAAGACTAAAGAGAAGAAATCAA  
 AGAACTTGTGAGAGTGAAGCCAAAGAAGAAAAAGAAAAAGAAAAAGAAACCAAGCCTGAATGTCCTCGC  
 AGTGAGGACATCAGTGATACTTCCCAGGAACCTTCTCCACCCAAAACATTTGCTGTACCAGGTGTGGGT  
 CCTCACACAAGCCTGGGGTCCATATGAGCCCGCAGCTCCATGGTTCAGATAATGGAACCACAAAGGAA  
 ATTGAAAACCTGTGAGGAGGATAATTTGAGTGAGTCTCTTCCGAGAGCTTTCTTTGAGTGATGAGGAA  
 TATGGTCAAGATGTTGATGTGACCACCAACCAGATGAGGAGCTTGAGGGCGACGACCCGCTATGATTTTG  
 AGGTGGTCCGCTGCATCTGTGAAGTGCAGGAGGAAAAATGACTTTCATGATTCAAGTGAAGAGTGCCAGTG  
 CTGGCAGCACGGGGTCTGCATGGCTTACTGGAAGAAAACGTGCCTGAGAAATACACCTGCATGTTTGC  
 CAAGACCTCCAGGTGAGAGCCTGGCTTCAAGTACTGGTATGACAAGGAGTGGCTGAGCCGGGGACACA  
 TGCATGGTCTGGCATTCTGGATCAGAATACTCCACCAGAATGCCAGGAAGATCGTGGCCACCCACCA  
 GCTGCTCGGGGACGTGCAGAGAGTGATCCAAGTCTGCACGGCCTGCAGCTCAAGATGAGCATTCTGCAA  
 AGCAGAGAGCATCCTGATCTGCAGCTATGGTCCAGCCCTGGAACAGCACTCGGGGGAGGGAAGAGCAC  
 ATCCAGACACATCCACATCACAGACGCCAGGAGCGAGGAGTCCCAAGCTATAGAATTTGAATGGGGC  
 GGTGGAGAAGCCATCGCCCTGCCCGATCTGTGGAGGAGTCTTACATCACCAGTGAGCATTGCTACCAG  
 AAACCTCGCGCTATTATCCCGCTGTGGAGCAGAGGCTGGTCTGGAGAGCAGAGGCTCTGCCCTTGATG  
 CTGCAGTCAGCCCCCTCTGTGAGAACGGCGACGACTCCCTCTCCCTCGCTAGGCTGGCCCATCGACCA  
 AGACAGGAGCAGAGGCGACATAGATCCCAAACCCAGCTCCCAAAGGTGAGAGAGTACATTTCCAAGAAT  
 GTCTTGCCAGAAGAGACGCCTGCAAGGAAGCTGCTGGACAGAGGTGGAGAAGGGCTGGTGAAGTCTCAGC  
 ACCAGTGGCAGTTCAACCTGCTCACACATGTGGAGTCCCTGCAGGATGAGGTGACGCACCCGGATGGACTC  
 CATTGAGAAGGAGCTGGACGTGCTGGAGAGCTGGCTGGACTACACTGGGGAGCTGGAGCCCCAGAGCCA  
 CTGGCCAGGCTTCCGAGCTCAAGCACTGCATCAAGCAGCTGCTGACTGACCTGGGCAAGGTGCAGCAGA  
 TCGCCCTCTGCTGCTCGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224459 representing NM\_172674  
 Red=Cloning site Green=Tags(s)

MTKHPPNRRGISFEVGAQLEARDRLKNWYPAHIEDIDYEEGRVLIHFKRWNHRYDEWFCWDSPLYLRPLEK  
 IQLRKEGLHDEDGSSEFQINQQVLACWSDCRFYPARVTAVNKDGTYYVYFDGVVQTVKHIHVKAFAFKDQ  
 NIVGNARPKETDHSLSSEKREKFKQKVTVNVKDKVEKALKTEKRPKQPDKEGLICSEKGVSE  
 KSLPKNEKEDKENISENEREYSGDAQVEKKPEKDLVKNPQENLKEPKRKRGRPPSITPTAVDSNSQTLQP  
 ITLELRRRKISKRSDTPLKRPRLDKNSPQEQSKKRSNSDKDLRRRSSRLSTNGTREILDPSIIVDLV  
 HTVDTNPLPDKSPSAKDSAEGQLKSPLEAGQVSSAL TCHPIGDGLGAADLELNCKSMGENTMKTEPV SPL  
 AEVQEVSTVEVPNTLKKVDDSVTLNVPVDLDHKFRCKVLDCLKFFRKAKLLHYHMKYFHGMEKSPEPEE  
 GPGKTHVQTRGSAPDKTSQESL TRKRVSASSPTAKEKEKTKEKKFKELVRVKPKKKKKKKKTKPEPCPC  
 SEDISDTSQEPSPPKTF AVTRCGSSHKPGVHMSPQLHGSDNGNHKGKLTCEEDNLSSESSSEFLWSDEE  
 YGQDQDVTNPDDELEGGDDRYDFEVVRCICEVQEENDFMIQCEECQCWQHGVCMGLLEENVPEKYTCYVC  
 QDPPGQRPQGFYWDKEWL SRGHMGLAFLDQNYSHQNARKIVATHQLLGDVQRVIQVLHGLQLKMSILQ  
 SREHPDLQLWCQPKQHSGEGRAHPRHIHITDARSEESPSYRTLNGAVEKPSPLPRSVESYITSEHCYQ  
 KPRAYYPAVEQRLVVETRGSALDAAVSPLCENGDDSLSPRLGWPIDQDRSRGIDPKPSSPKVREYISK  
 VLPEETPARKLLDRGEGLVSSQHQQFNLLTHVESLQDEVTHRMDSIEKELDVLESWLDYTGELPEPEP  
 LARLPQLKHCIKQLLTDLKGKVVQIALCCST

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<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>	<u><a href="#">NM_172674.2</a></u> , <u><a href="#">NP_766262.2</a></u>
<b>RefSeq Size:</b>	5752 bp
<b>RefSeq ORF:</b>	3033 bp
<b>Locus ID:</b>	228829
<b>UniProt ID:</b>	<u><a href="#">Q8BLG0</a></u>
<b>Cytogenetics:</b>	2 H1
<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]