

## Product datasheet for **MG211469**

### Phf20 (BC060121) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phf20 (BC060121) 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:	>MG211469 representing BC060121 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCAAGCACCCACCTAACAGACGAGGAATCAGCTTTGAAGTGGGAGCCAGTTGGAAGCTCGGGACC  
GTTTAAAAAACTGGTATCCAGCTCATATTGAAGACATTGACTACGAAGAAGGGAGAGTTCTCATCCATTT  
CAAGCGTTGGAACCATCGTTACGATGAGTGGTTTTGCTGGGACAGTCCTATCTGCGCCCTTTAGAGAAG  
ATCCAGCTGAGGAAAGAGGGTTTACATGATGAGGATGGCTCTTCTGAATTTCAAATAAACAGCAAGTGC  
TTGCTTGCTGGTCTGACTGTCGATTTTATCCAGCCAGAGTCACTGCTGTGAACAAGGATGGTACTTACAC  
TGTGAAATTTTATGATGGAGTAGTTCAAAGTGTCAAACATATTTCATGTCAAAGCTTTTTCCAAAGATCAG  
AATATTGTGGTAATGCTAGGCCTAAAGAAACAGACCACAAAAGTCTTTCATCGTCTCCTGAGAAACGAG  
AGAAGTTTAAAGAACAGAGAAAAGTACCGTCAATGTGAAGAAAGACAAAGTGGAAAAAGCCTTAAAGAC  
AGAAAAGCGGCCAACCAAGCAACCTGACAAAGAGGGAAAGCTGATCTGCTCAGAAAAAGGCAAGTGTGAG  
AAAAGCCTTCTAAGAACGAAAAGGAAGATAAGGAGAACATTTCCGAGAACGAGCGGGAGTACTCCGGGG  
ATGCCAGGTGGAAAAGAAGCCTGAGAAGGACCTTGTGAAGAACCACAAGAGAACCTGAAGGAGCCAAA  
AAGAAAACGAGGCAGACCCCTTCCATAACTCTACGGCTGTGGATTCAAACCTCAAACCTTTGCAACCA  
ATAACATTGGAATTGAGAAGACGGAATAATCAAACGAAGTACACCCCATTAAGCGTCCCAGACTCG  
ACAAAAATTCACCCAGGAACAGTCAAAAAACGCTCTGAAAATAGTGACAAAGACTTATCCAGGAGACG  
GTCCTCCAGGCTGTCCACTAATGGGACCCGTGAGATCCTAGATCCTGACTCGATTGTACCTGATCTGGTT  
CATACGGTTGATACAAACCCTCTACCAGACAAGTACCCAGTGCCAAGGATTCTGCTGAAGGTGAGTTGA  
AGTCTCCATTGGAAGCTGGCCAGGTCTCTTCTGCATTAACCTGCCACCCATTGGGGATGGCCTGGGGGC  
AGCAGATTTGGAGTTGAATTGCAAGTCAATGGGAGAAAACACGATGAAAACAGAACCTGTTTCTCTCTT  
GCTGAGGTGCAGGAAGTTTCACTGTTGAAGTTCCAAATACTTTGAAGAAAGTTGATGACTCTGTGACGT  
TGAATGTGCCAGCTGTGGACCTAGACCACAAGTTTCGATGCAAGGTTCTGGACTGTTTGAATTTTCCG  
CAAGGCTAAATTGCTGCACTATCATATGAAGTATTTCCATGGGATGGAGAAGTACCAGAGCCAGAGGAG



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GGCCCAGGGAAGACGCATGTACAGACTCGGGGCTCTGCGGTGCCTGACAAGACAAGCCAGGAGAGCCTAA  
 CCAGGAAGCGGGTCTCTGCCAGTCCCCACTGCAAAAGAGAAGGAAAAGACTAAAGAGAAGAAATCAA  
 AGAACTTGTGAGAGTGAAGCCAAAGAAGAAGAAATTCAAAGAAGTGTGAGAGTGAAGCCAAAGAAGAAA  
 AAGAAAAAGAAAAAGAAAACCAAGCCTGAATGTCCTGCAGTGAGGACATCAGTGATACTCCCAGGAAC  
 CTTCTCCACCCAAAACATTTGCTGTACCAGGTGTGGTCTCACACAAGCCTGGGGTCCATATGAGCCC  
 GCAGCTCCATGGTTCAGATAATGAAACCACAAAGGAAAATTGAAAACCTGTGAGGAGGATAATTTGAGT  
 GAGTCTCTCCGAGAGCTTTCTTTGGAGTGATGAGGAATATGGTCAAGATGTTGATGTGACCAACCAAC  
 CAGATGAGGAGCTTGAGGGCGACGACCGCTATGATTTTGGAGTGGTCCGCTGCATCTGTGAAGTGCAGGA  
 GAAAAATGACTTCATGATTGAGTGTGAAGAGTGCCAGTGTGGCAGCACGGGGTCTGCATGGGCTTACTG  
 GAAGAAAACGTGCCTGAGAAATACACCTGCTATGTTTGCAGACCCCTCCAGGTGAGAGGCTGGCTTCA  
 AGTACTGGTATGACAAGGAGTGGCTGAGCCGGGGACACATGCATGGTCTGGCATTCTGGATCAGAACTA  
 CTTCCACCAGAATGCCAGGAAGATCGTGGCCACCCACCAGCTGCTCGGGACGTGCAGAGAGTATCCAA  
 GTGCTGCACGGCTGCAGCTCAAGATGAGCATTCTGCAAAGCAGAGAGCATCCTGATCTGCAGCTATGGT  
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 GAGCGAGGAGTCCCAAGCTATAGAAGTTGAATGGGGCGGTGGAGAAGCCATCGCCCTGCCCGATCT  
 GTGGAGGAGTCTTACATACCAAGTGTGAGCATTGCTACCAGAAACCTCGCGCTATTATCCCCTGTGGAGC  
 AGAGGCTGGTCTGGAGACGAGAGGCTCTGCCCTTGTGCTGCAGTACAGCCCTCTGTGAGAACGGCGA  
 CGACTCCCTCTCCCTCGCTAGGCTGGCCATCGACCAAGACAGGAGCAGAGGCGACATAGATCCCAAA  
 CCCAGCTCCCAAGGTGAGAGAGTACATTTCCAAGAATGTCTTCCAGAAGAGACGCCTGCAAGGAAGC  
 TGCTGGACAGAGGTGGAGAAGGGCTGGTGTGAGCTCTCAGCACCAGTGGCAGTTCAACTGCTCACACATGT  
 GGAGTCCCTGCAGGATGAGGTGACGCACCGGATGGACTCCATTGAGAAGGAGCTGGACGTGCTGGAGAGC  
 TGGCTGGACTACACTGGGAGCTGGAGCCCCAGAGCCACTGGCCAGGCTTCCGACGTCAAGCACTGCA  
 TCAAGCAGCTGCTGACTGACCTGGGCAAGGTGCAGCAGATCGCCCTCTGCTGCTCGACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG211469 representing BC060121  
 Red=Cloning site Green=Tags(s)

MTKHPPNRRGISFEVGAQLEARDRLKNWYPAHIEDIDYEEGRVLIHFKRWNHRYDEWFCWDSPLYLRPLEK  
 IQLRKEGLHDEDGSSEFQINQQVLACWSDCRFYPARVTAVNKDGTYYVVFYDGVVQTVKHIHVKAFAFKDQ  
 NIVGNARPKETDHSLSSEKREKFKQKVTVNVKDKVEKALKTEKRPKQPDKEGLICSEKGVSE  
 KSLPKNEKEDKENISENEREYSGDAQVEKKPEKDLVKNPQENLKEPKRKRGRPPSITPTAVDSNSQTLQP  
 ITLELRRRKISKRSDTPLKRPRLDKNSPQEQSKKRENSDKDLRRRSSRLSTNGTREILDPSIIVPDLV  
 HTVDTNPLPDKSPSAKDSAEGQLKSPLEAGQVSSAL TCHPIGDGLGAADLELNCKSMGENTMKTEPVSP  
 AEVQEVSTVEVPNTLKKVDDSVTLNVPVLDLHKFRCKVLDCLKFFRKAKLLHYHMKYFHGMEKSPEPEE  
 GPGKTHVQTRGSVAVPDKTSQESL TRKRVSASSPTAKEKEKTKKFKELVRVKPKKKFKELVRVKPKKK  
 KKKKKKTKPECPCESDISDTSQEPSPPKTF AVTRCGSSHKPGVHMSPQLHGS DNGNHKGLKTCEEDNLS  
 ESSSESFLWSDEEYQDQVDTTNPDEELEGGDRYDFEVVRCICEVQEENDFMIQCEECQCQWQHGVCMGLL  
 EENVPEKYTYCYQDPPGQRPQPFKYWYDKEWLSRGHMGLAFLDQNYSHQARKIVATHQLLDVQVRIQ  
 VLHGLQLKMSILQSRHPDLQLWCQPWKQHSGEGRAHPRHIHITDARSEESPSYRTLNGAVEKPSPLPRS  
 VEESYITSEHCYQKPRAYPAVEQRLVVETRGSALDAVSPLENGDSDLSPLGWPIDQDRSRGDIDPK  
 PSSPKVREYISKVNLPEETPARKLLDRGGELVSSQHQQFNLLTHVESLQDEVTHRMDSIEKELDVLES  
 WLDYTGELPEPEPLARLPQLKHCIKQLLTDLGKVVQIALCCST

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


ACCN: BC060121

ORF Size: 3071 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:

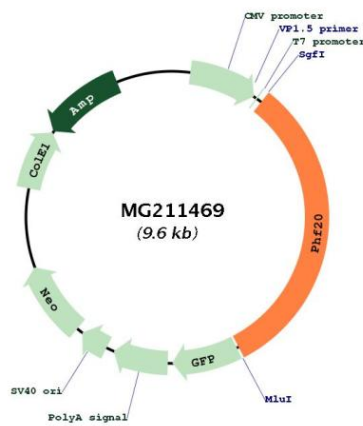
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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: [BC060121](#), [AAH60121](#)

RefSeq Size: 5665 bp

**RefSeq ORF:** 3071 bp  
**Locus ID:** 228829  
**Cytogenetics:** 2 H1  
**Gene Summary:** 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]

**Product images:**



Circular map for MG211469