

Product datasheet for **RG227020**

PHF21B (NM_001135862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF21B (NM_001135862) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHF21B
Synonyms:	BHC80L; PHF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227020 representing NM_001135862
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCTGCAGAGCCGGCCGAGGCGCTCGCCGTGGAACCTCGCGGCCACCAGAACGGCGACTCAAGA
 AGCAGCTCCACGAAAGGCAGCCGCGGATCGCCGCGCTCAGCGACAAACAAGCTTTGGGAACGATCACTGC
 AGTGCCTGTACGGGTCCTCAGGTCAGCTCCTTGCAAGGTTGGCCGGCAAGGAGCGGCAGTGCTACCT
 CAGGTTAGGCCAAAGACTCTGATTCCAGACAGCCTCCCGTTGCCCGGGCCGGGACCGGCCACCCAAGC
 AGCCCCAACATTCCAGAAGGCCACCGTGGTCAGCGTCAAGAACCCAGCCAGCCCTCCCACCGCCAA
 CAACACTGTCAGCCATGTGCCAGCGCCCGCAGCCAGCCAGGCCCTCGCCGAGCCCGCCGCCCTCGCC
 TCTCCGCTGAGCAGTGGGGGTGGCTACGCCATCATCTCCACCTCCCCAGCAATGCCCGCCATGG
 CCCCCAGACCGCGTGTCTGTGGTCAGTGACAGCATCAAAGTCCAGCCCTCCTCATCAGTGTGACAA
 CAAGGTATCATATTACGCTCAAGTGCAGACGAGCCGAGAGCAGCGAGAGTCCGCGCCGCCACA
 GAGGAGCCATCTAGGGAGCTCAGGCCACCAAAAAGAAGAAGGAAGACCGCCCCGACCCAGGAGAACC
 CCGAGAAAATCGCCTTATGGTAGCGCTAGGCCTGGTTACCACGGAACATTTGGAAGAAATCCAGAGCAA
 GCGACAGGAGCGGAAGAGAAGAAGCACAGCCAACCCTGCCTACAGCGGCCTCCTGGAGACCAGAGGAAA
 CGGCTGGCCTCCAATATCTCAACAACCCCTGTTCTCACAGCGAGAGCCAATGAGGACCCCTGCTGGA
 AGAACGAGATCACCCACGATGAGCACTGTGCCGCTGCAAGCGAGGGGCCAACCTGCAGCCCTGCGGCAC
 CTGCCCCGGGGCCTACCCTCAGCTGCCTGGAGCCGCCCTCAAGACGGCGCCAAGGGCGTGTGGGTG
 TGCCCCAGGTGCCAGCAGAAGGCCTTAAGAAAAGACGAGGGTGTGCCCTGGACTGGGATGCTGGCCATCG
 TGCACTTATGTCACCCACAAGACAGTCAAAGAAGAGGAGAAGCAGAAGCTGCTCAACAGGAGCAGTGA
 GCTGCAGAACGAGCACCCAGCAGCTGGAGGAGCGGGACCGCGGCTGGCGTCAGCAGTGCAGAAATGCCTG
 GAGTTGAAGACAAGCCTGCTGGCCCGCCAGAGGGCACCCAGTATCCCTGGACCGCCTGCGGGCCCTCC
 TGAGACTGATACAGGGCAGCAGCTGCTCCAGGTACCATGACGACCACTAGCCCTGCCCACTGCTGGC
 CGGGCCCTGGACCAAGCCCTCAGTGGCAGCCACACACCCACCGTCCAGCACCCCGAGGCCACAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227020 representing NM_001135862
 Red=Cloning site Green=Tags(s)

MELQSRPEALAVELARHQNGDLKKQLHERQPRIALSDKQALGTITAVPVTGPQVSSLQRLAGQGAAVLP
 QVRPKTLIPDSLVPVAPGRDRPPKQPPTFQKATVSVKNPSPALPTANNTVSHVPAPGSQPQALAEPAALA
 SPLSSAGVAYAIISTSPSNAAMAPSTAVSVSDSIKVQPLLSADNKVIIIQPVQTPQPESTAESRPPT
 EEPQGAQATKKKKEDRPPTQENPEKIAFMVALGLVTTEHLEEIQSKRQERKRRSTANPAYSGLLETERK
 RLASNYLNNPLFLTARANEDPCWKNEITHDEHCAACKRGANLQPCGTCPGAYHLSLEPPLKTPKGVWV
 CPRCQQKALKKDEGVPWTGMLAIVHSYVTHKTVKEEEKQLLQRGSELQNEHQLEERDRRLASAVQKCL
 ELKTSLLARQRTQSSLDRLRALLRLIQGEQLLQVTMTTSPAPLLAGPWTKPSVAATHPTVQHPQGHN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001135862

ORF Size: 1467 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_001135862.3](#)

RefSeq Size: 3522 bp

RefSeq ORF: 1470 bp

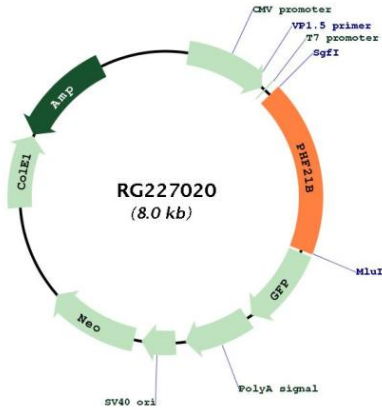
Locus ID: 112885

UniProt ID: [Q96EK2](#)

Cytogenetics: 22q13.31

Protein Families: Druggable Genome, Transcription Factors

Product images:



Circular map for RG227020