

Product datasheet for **SC318085**

PHF21A (NM_016621) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF21A (NM_016621) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHF21A
Synonyms:	BHC80; BM-006; IDDBCS; NEDMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



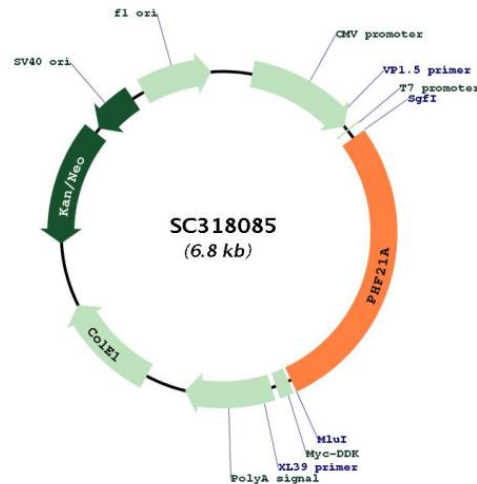
[View online »](#)

Fully Sequenced ORF: >SC318085 representing NM_016621.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTTGCAGACTCTACAGGAGGCTCTTAAAGTGAAATTCAGGTTACCAGAAAAGTGGTTGCTCAA
ATGAAGCAGGATCCACAGAATGCTGACTTAAAGAAACAGCTTCATGAACCCAAGCCAAAATCACAGCT
TTGAGTGAGAAACAGAAAAGAGTAGTTGAACAGCTACGGAAGAACCTGATAGTAAAGCAAGAACAACCG
GACAAGTTCCAAATACAGCCATTGCCACAATCTGAAAACAAAACAAAACAGCACAGCAGCAACCACTA
CAGCAACTACAACAACAGCAGCAGTACCACCACCACCAGCCAGCAGTCACTGCGCCTCTCCCAAC
CTGACTGCTTACAGAAGACTGTAACACTACAGCTTCTATGATTACCACAAAGACACTACCTCTCGTCTTG
AAAGCAGCAACTGCGACCATGCCTGCCTCTGTGGTGGGCCAGAGACCTACCATTGCTATGGTGACCGCC
ATCAACAGTCAGAAGGCTGTGCTCAGCACTGATGTGCAGAACACACCAGTCAACCTCCAGACGTCTAGT
AAGGTCAGTGGGCTGGGCGAGAGGCTGTCCAAATTTGGGCAAAAACACAGTCACTCTGCAGGTTCCAG
GCAACACCTCCTCAGCCATCAAAGTACCACAGTTTATCCCCCTCTAGACTCACTCCAGTCCAAAC
TTTCTTCCACAGGTTTCGACCCAAAGCCTGTGGCCAGAATAACATTCCTATTGCCCCAGCACCACCTCCC
ATGCTCGCAGCTCCTCAGCTTATCCAGAGGCCGTCATGCTGACCAAGTTCACCCCCACAACCTTCCC
ACATCCAGAAATTCATCCACCCCGTCCGTGTCGTCATGGGCGAGCTGCAACCATAGCCAAAACGTTTCC
CCATGGCCAGCTCACCAGCATTGTGATAGCTACTCCAGGGACCAGACTCGCTGGACCTCAAATGTA
CAGCTTAGCAAGCAAGTCTTAAAAACAGACAGTTAAATCTCACACAGAAAACAGATGAGAAAACAAACA
GAGAGCCGCACCATCACCCACCTGCTGCACCCAAACAAAACGGGAGGAGAACCCTCAGAAAATGGCC
TTCATGGTGTCTCTAGGTTGGTAACACATGACCATCTAGAAGAAATCAAAGCAAGAGGCAAGAGCGA
AAAAGAAGAACAACAGCAATCCGGTCTACAGTGGAGCAGTCTTTGAGCCAGAGCGTAAGAAGAGTGCA
GTGACATACCTAAACAGCACAATGCACCCCTGGGACCCGGAAGAGAGCCAATGAGGAACACTGGCCAAAG
GGTGATATTCATGAGGATTTTGCAGCGTTTGCAGAAAAAGTGGCCAGTTACTGATGTGCGACACATGT
TCCCGTGATATCATTGGACTGCTTAGACCCCTCTGAAAACAATTCCCAAGGCATGTGGATCTGT
CCCAGATGTCAGGACCAGATGCTGAAGAAGGAAGAAGCAATTCATGGCCTGGAACCTTAGCAATTGTT
CATTCTATATTGCCTACAAAGCAGCAAAAAGAAGAAGAGAACAGAAAGTACTTAAATGGAGTTCAGAT
TAAAAACAAGAACGAGAACAACAGAGCAAAAGGTGAAACAGCTCAGCAATTCATAAGTAAATGCATG
GAAATGAAGAACACCATCCTGGCCCGCAGAAGGAGATGCACAGCTCCCTGGAGAAGGTAACACAGCTG
ATTCGCCTCATCCACGGCATCGACCTCTCAAACCTGTAGACTCTGAGGCCACTGTGGGGCCATCTCC
AATGGCCCGGACTGCACCCCTGCAATGCCGCCACCTCCACGCCGGCCCTTCCCCCTCTCCAG
AGCTGCACAGCGAACTGTAACCAGGGGGAAGAGACTAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_016621

Insert Size: 1905 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_016621.3](#)

RefSeq Size: 7194 bp

RefSeq ORF: 1905 bp

Locus ID: 51317

UniProt ID: [Q96BD5](#)

Cytogenetics: 11p11.2

Domains: PHD

Protein Families: Druggable Genome, Transcription Factors

MW: 70.2 kDa

Gene Summary: The PHF21A gene encodes BHC80, a component of a BRAF35 (MIM 605535)/histone deacetylase (HDAC; see MIM 601241) complex (BHC) that mediates repression of neuron-specific genes through the cis-regulatory element known as repressor element-1 (RE1) or neural restrictive silencer (NRS) (Hakimi et al., 2002 [PubMed 12032298]).[supplied by OMIM, Nov 2010]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the mid-coding region, and includes an alternate in-frame exon in the 3' coding region, but lacks a different alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting protein (isoform b) is shorter than isoform a. Variants 2, 6, and 7 all encode the same isoform (b).