

## Product datasheet for **RG210609**

### PHF10 (NM\_018288) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHF10 (NM_018288) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHF10
Synonyms:	BAF45A; XAP135
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210609 representing NM_018288 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCAAGAACAAGTCAGTGAATATTTGGGTGTGACCTCCTTTAAAAGGAAATATCCAGATTTAGAGC  
GACGAGATTTGTCTCACAAGGAGAACTCTACCTGAGAGAGCTAAATGTCATTACTGAACTCAGTGCAC  
TCTAGGCTTAACAGCATTGCGCAGTGATGAAGTGATTGATTTAATGATAAAAAGAATATCCAGCCAAACAT  
GCTGAGTATTCTGTTATTCTACAAGAAAAAGAACGTCAACGAATTACAGACCATTATAAAGAGTATTCCC  
AAATGCAACAACAGAATACTCAGAAAGTTGAAGCCAGTAAAGTGCCTGAGTATATTAAGAAAGCTGCCAA  
AAAAGCAGCAGAAATTAATAGCAACTTAAACCGGGAACGCATGGAAGAAAGAAGAGCTTATTTTGACTTG  
CAGACACATGTTATCCAGGTACCTCAAGGGAAGTACAAAGTTTTGCCAACAGAGCGAACAAGGTCAGTT  
CTTACCCAGTGGCTCTCATCCCCGGACAGTTCCAGGAATATTATAAGAGGTAICTACCAGATGAGCTGCG  
GTATCTGCCATTAACACAGCCCTGTATGAGCCCCCTCTGGATCCTGAGCTCCCTGCTCTAGACAGTGAT  
GGTGATTAGATGATGGCGAAGATGGTCGAGGTGATGAGAAACGGAAAAATAAAGGCACTTCGGACAGCT  
CCTCTGGCAATGTATCTGAAGGGGAAAGCCCTCCTGACAGCCAGGAGGACTCTTCCAGGGAAGACAGAA  
ATCAAAAAGACAAAGCTGCCACTCCAAGAAAAGATGGTCCCAAACGTTCTGTACTGTCCAAGTCAGTTCT  
GGGTACAAGCCAAAGGTCATTCCAATGCTATATGTGGAATTTGTCTGAAGGGTAAGGAGTCCAACAAGA  
AAGGAAAAGGCTGAATCACTTATACACTGCTCCCAATGTGAGAATAGTGGCCATCCTTCTTGCTGGATAT  
GACAATGGAGCTTGTCTATGATTAAGACCTACCCATGGCAGTGATGGAATGTAACAATGCATTATA  
TGTGGACAACCCACCATGAAGAAGAAATGATGTTCTGTGATATGTGTGACAGAGTTATCATACTTTT  
GTGTGGCCCTTGGTGCTATTCCATCAGGTCGCTGGATTTGTGACTGTTGTGACGGGCCCCCCCAACACC  
CAGGAAAGTGGGCAGAAGGGGAAAAACAGCAAGAGGGA

**ACGGT**ACGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210609 representing NM\_018288  
Red=Cloning site Green=Tags(s)

MLQEQVSEYLVGTSFKRKYDPLERRDLSHKEKLYLRELVITETQCTLGLTALRSDEVIDLMIKEYPAKH  
 AEYSVILQEKERQRITDHYKEYSQMQQNTQKVEASKVPEYIKKAAKAAEFNSNLNRERMEERRAYFDL  
 QTHVIQVPQGYKVLPTERTKVVSSYPVALIPGQFQEYKRYSPDELRYLPLNTALYEPPLDPELPALDSD  
 GDSDDGEDGRGDEKRKNKGTSDSSSGNVSEGESPPDSQEDSFQGRQKSKDKAATPRKDGPKRSVLSKSV  
 GYKPKVIPNAICGICLKKESENKKGKAEGLIHCSCQENSHPSCLDMTMELVSMIKTYPWQCECKTCII  
 CGQPHHEEEMFCDMCDRGYHTFCVGLGAIPSGRWICDCCQRAPPTPRKVGRRGKNSKEG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018288

**ORF Size:** 1230 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\\_018288.2](#), [NP\\_060758.1](#)

**RefSeq Size:** 1549 bp

**RefSeq ORF:** 1497 bp

**Locus ID:** 55274

**UniProt ID:** [Q8WUB8](#)

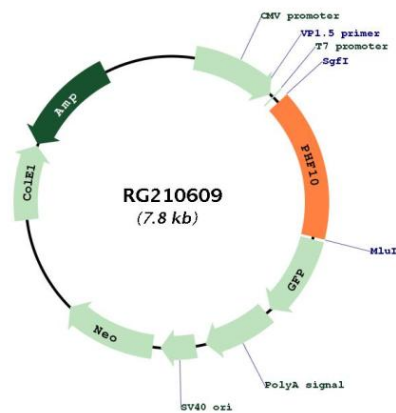
**Cytogenetics:** 6q27

**Domains:** PHD

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Gene Summary:** This gene contains a predicted ORF that encodes a protein with two zinc finger domains. The function of the encoded protein is not known. Sequence analysis suggests that multiple alternatively spliced transcript variants are derived from this gene but the full-length nature of only two of them is known. These two splice variants encode different isoforms. A pseudogene for this gene is located on Xq28. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG210609