

## Product datasheet for **RC203984**

### **PHD4 (P4HTM) (NM\_177938) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PHD4 (P4HTM) (NM_177938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHD4
Synonyms:	EGLN4; HIDEA; HIFPH4; P4H-TM; PH-4; PH4; PHD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC203984 representing NM\_177938  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCAGCGCGGTGACAGGCCAGCGCCTGAGACCGCGCGCCGAGGAGGCTCGAGGCCGAGT  
 GGGCGCCGCCAGACCACTGCCAGGCTCAGCGCGCGCCGGCTGGGCGACGGCGAGGACGCACCGGTGCG  
 TCCGCTGTGCAAGCCCCGCGCATCTGCTCGCGCGCTACTTCCTGGTGTGATGGTGTTCTGTCACCTG  
 TACCTGGGTAACGTGCTGGCGCTGCTGCTCTTCGTGCACTACAGCAACGGCGACGAAAGCAGCGATCCCG  
 GGCCCCAACACCGTGCCAGGGCCCCGGGCCGAGCCACCTTAGGTCCCCTCACCCGGCTGGAGGGCAT  
 CAAGGTGGGGCACGAGCGTAAGGTCCAGCTGGTACCAGAGGGATCACTTCATCCGAACCTCAGCCTC  
 AAGCCGCTGCTCTCGAAATCCCCGGCTTCTGACTGATGAAGAGTGTGGCTCATCATCCATCTGGCGC  
 AGATGAAGGGGTTACAGCGCAGCCAGATCTGCCTACTGAAGAGTATGAAGAGGCAATGAGCACTATGCA  
 GGTGAGCCAGCTGGACCTTCCGGCTGCTGGACCAGAACCGTATGGGACCTTCAGCTCCGTGAGGTT  
 CTGGCCAGACTCGCTGGGAAATGGATGGTGGATGACTCCAGAGAGCATTACAGGAGATGTACGCCGCA  
 TCAAGGCTGACCTGATGGTGACGGAGTCTGAGTCTGCAGGAGTTCTCCAACATGGACCTTCGGGACTT  
 CCACAAGTACATGAGGAGCCACAAGGCAGAGTCCAGTGGTGGCGAACAGCCACCATACCTGGCTC  
 TACCAGGGTGAGGGTGCCACCACATCATGCGTGCCATCCGCCAGAGGGTGTGCGCCTCACTCGCTGT  
 CGCCTGAGATCGTGGAGCTCAGCGAGCCGCTGCAGGTTGTTTCGATATGGTGAAGGGGGCCACTACCATGC  
 CCACGTGGACAGTGGGCTGTGTACCCAGAGACCATCTGCTCCCATACCAAGCTGGTAGCCAACGAGTCT  
 GTACCTTCGAGACCTCCTGCCGCAAGTATCTCCAACCTGGGGGCTGCCTTCAATCCTCAGACCAGGAA  
 CACCCATGACACAGGCACAGCCCTGCACCTGTGGCGTGCCCTTGGCATGGGGCCAGGAGATCACTGGT  
 TATCCCGGTAAGCCCTGGGAGCATCCACAACCTGGGACCTGCTCAGTGCCCCCTGCCTTACAGCTAC  
 ATGACAGTGTGTTTTATTTGAACAACGCTCACTGGTGGGGCGAGACTGTTTTCCCTGTAGCAGATAACA  
 GAACCTACGATGAAATGAGTCTGATTAGGATGACGTGGACCTCCGTGACACACGGAGGCACTGTGACAA  
 GGGAAACCTGCGTGTCAAGCCCCAACAGGGCACAGCAGTCTTCTGGTACAACCTGCCTGATGGGCAA  
 GGTGGGTGGGTGACGTAGACGACTACTCGCTGCACGGGGGCTGCCTGGTACGCGCGGCACCAAGTGA  
 TTGCCAACAACTGGATTAATGTGGACCCAGCCGAGCGCGCAAGCGCTGTTCCAACAGGAGATGGCCCG  
 CCTTCCCCGAGAAGGGGGCACCGACTCACAGCCGAGTGGGCTCTGGACCGGGCTACCGCGATGCGCGC  
 GTGGAATC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203984 representing NM\_177938  
 Red=Cloning site Green=Tags(s)

MAAAVTVGQRPETAAAEASRPQWAPPDHCQAQAAAGLDGEDAPVRPLCKPRGICSRAYFLVLMVFVHL  
 YLGNVLAALLLVFHYNSNGDESSDPGQHRAGQPGPEPTLGPLTRLEGIKVGHKRVQLVTRDRHFIRTL  
 KPLLEIFPGFLTDEECLRIIHLAQMKQLQRSQILPTEEYEEAMSTMQVSLDLFRLLDQNRDGHLLQREV  
 LAQTRLGNGWMTPEIQEMYYAIKADPDGDGVLSLQEFNMNDRDFHKYMRSHKAESSELVRNSHHTWL  
 YQGEGAHHIMRAIRQVRLRLTRLSPEIVELSEPLQVVRYGEGGHYHAHVDSGPVYPETICSHTKLVANES  
 VPFETSCRQVSPNWGLPSILRPGTPMTQAQPCTVGVPLGMGPGDHWVIVPSPWEHPQLGTCVPLPYSY  
 MTVLFYLNNTGGGETVFPVADNRTYDEMSLIQDDVDLDRTRRHCDKGNLRVQKQGTAVFWYNYLPGDQ  
 GWVGDVDDYSLHGGCLVTRGKWIANNWINVDPSSRARQALFQEMARLAREGGTDSQPEWALDRAYRDAR  
 VEL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_177938

**ORF Size:** 1689 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\\_177938.2](#), [NP\\_808807.2](#)

**RefSeq Size:** 2294 bp

**RefSeq ORF:** 1692 bp

**Locus ID:** 54681

**UniProt ID:** [Q9NXG6](#)

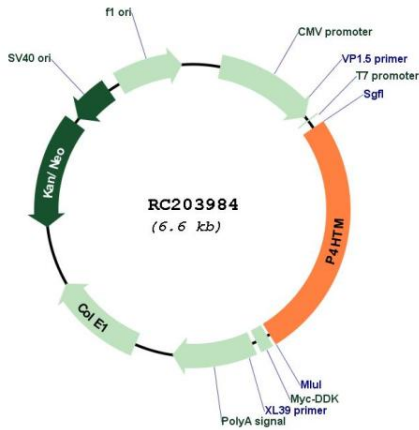
**Cytogenetics:** 3p21.3

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 63.1 kDa

**Gene Summary:** The product of this gene belongs to the family of prolyl 4-hydroxylases. This protein is a prolyl hydroxylase that may be involved in the degradation of hypoxia-inducible transcription factors under normoxia. It plays a role in adaptation to hypoxia and may be related to cellular oxygen sensing. Alternatively spliced variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC203984