

## Product datasheet for **RG216367**

### PHD4 (P4HTM) (NM\_177939) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHD4 (P4HTM) (NM_177939) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHD4
Synonyms:	EGLN4; HIDEA; HIFPH4; P4H-TM; PH-4; PH4; PHD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216367 representing NM\_177939  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCAGCGCGGTGACAGGCCAGCGCCTGAGACCGCGCGCCGAGGAGCCTCGAGGCCGAGT  
 GGGCGCCGCCAGACCACTGCCAGGCTCAGGCGGGCCGGCTGGGCGACGGCGAGGACGCACCGGTGCG  
 TCCGCTGTGCAAGCCCCGCGCATCTGCTCGCGCCTACTTCCTGGTGTGATGGTGTTCTGTCACCTG  
 TACCTGGGTAACGTGCTGGCGCTGCTGCTCTTCGTGCACTACAGCAACGGCGACGAAAGCAGCGATCCCG  
 GGCCCAACACCGTGCCAGGGCCCCGGGCCGAGCCACCTTAGGTCCCCTCACCCGGCTGGAGGGCAT  
 CAAGGTGGGACAGCGTAAGGTCCAGCTGGTACCAGAGGGATCACTTCATCCGAACCCTCAGCCTC  
 AAGCCGCTGCTCTCGAAATCCCCGGCTTCTGACTGATGAAGAGTGTGGCTCATCATCCATCTGGCGC  
 AGATGAAGGGGTTACAGCGCAGCCAGATCTGCCTACTGAAGAGTATGAAGAGGCAATGAGCACTATGCA  
 GGTGAGCCAGCTGGACCTTCCGGCTGCTGGACCAGAACCGTATGGGCACCTTCAGCTCCGTGAGGTT  
 CTGGCCAGACTCGCCTGGGAAATGGATGGTGGATGACTCCAGAGAGCATTACAGGAGATGTACGCCGCA  
 TCAAGGCTGACCCTGATGGTGACGGAGTCTGAGTCTGCAGGAGTTCTCCAACATGGACCTTCGGGACTT  
 CCACAAGTACATGAGGAGCCACAAGGCAGAGTCCAGTGAGCTGGTGCGGAACAGCCACCATACCTGGCTC  
 TACCAGGGTGAGGGTGCCACCACATCATGCGTGCCATCCGCCAGAGGGTGTGCGCCTCACTCGCCTGT  
 CGCCTGAGATCGTGGAGCTCAGCGAGCCGCTGCAGGTTGTTTCGATATGGTGAGGGGGGCCACTACCATGC  
 CCACGTGGACAGTGGCCCTGTGTACCCAGAGACCATCTGCTCCCATACCAAGCTGGTAGCCAACGAGTCT  
 GTACCTTCGAGACCTCCTGCCGCTACATGACAGTGTGTTTTATTTGAACAACGTCAGTGGTGGGGCG  
 AGACTGTTTTCCCTGTAGCAGATAACAGAACCTACGATGAAATGAGTCTGATTGAGGATGACGTGGACCT  
 CCGTGACACACGGAGGCACTGTGACAAGGAAACCTGCGTGTCAAGCCCCAACAGGGCACAGCAGTCTTC  
 TGGTACAACACTGCCTGATGGCAAGGTTGGGTGGGTGACGTAGACGACTACTCGCTGCACGGGGCT  
 GCCTGGTACGCGCGGCCACCAAGTGGATTGCCAACAACTGGATTAATGTGGACCCAGCCGAGCGCGGCA  
 AGCGCTGTTCCAACAGGAGATGGCCCGCTTGCCTGAGAGAGGGGGCACCGACTCACAGCCCGAGTGGGCT  
 CTGGACCGGGCTACCGCATGCGCGCTGGAATC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG216367 representing NM\_177939  
 Red=Cloning site Green=Tags(s)

MAAAAVTGQRPETAAAEASRPQWAPPDHCQAQAAAGLDGEDAPVVRPLCKPRGICSRAYFLVLMVFVHL  
 YLGNVLLALLFVHYSNGDESSDPGPHRAQGPPEPTLGPLTRLEGIKVGHERKVQLVTRDRDHFIRTL  
 KPLLFEIPGF LTDEECRLIIHLAQMKLQRSQILPTEEYEEAMSTMQVSQLDLFRLLDQNRDGHQLQREV  
 LAQTRLGNGWMTPESIQEMYAAIKADPDGDGVLSLQEF SNMDLRDFHKYMRSHKAESSELVNRSHHTWL  
 YQGE GAHHIMRAIRQVRLRLTRLSPEIVELSEPLQVVRVYEGGHHYHAHVDSGPVYPETICSHTKLVANES  
 VPFETSCRYMTVLFYLNVTGGGETVFPVADNRTYDEMSLIQDDVDLDRTRRHCDKGNLRVKPQQTAVF  
 WYNYPDGQGWGDVDDYSLHGGCLVTRGTKWIANNWINVDPSRARQALFQQEMARLAREGGTDSQPEWA  
 LDRAYRDARVEL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_177939

**ORF Size:** 1506 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\\_177939.3](#)

**RefSeq Size:** 2111 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 54681

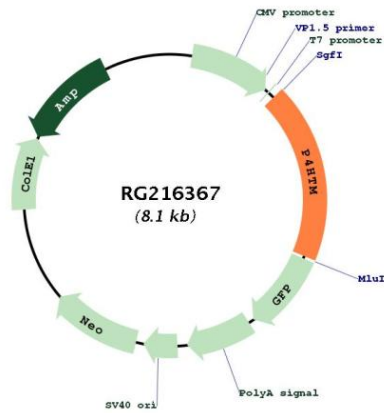
**UniProt ID:** [Q9NXG6](#)

**Cytogenetics:** 3p21.3

**Protein Families:** Druggable Genome, Transmembrane

**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 RG216367