

Product datasheet for **RG203984**

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:	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:

>RG203984 representing NM_177938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCAGCGCGGTGACAGGCCAGCGCCTGAGACCGGCGGCCGAGGAGGCTCGAGGCCGAGT
 GGGCGCCGCCAGACCACTGCCAGGCTCAGCGCGGCCGGCTGGGCGACGGCGAGGACGCACCGGTGCG
 TCCGCTGTGCAAGCCCCGCGCATCTGCTCGCGCCTACTTCCTGGTGTGATGGTGTTCTGTCACCTG
 TACCTGGGTAACGTGCTGGCGCTGCTGCTCTTCGTGCACTACAGCAACGGCGACGAAAGCAGCGATCCC
 GGCCCAACACCGTGCCAGGGCCCCGGGCCGAGCCACCTTAGGTCCCCTACCCGGCTGGAGGGCAT
 CAAGGTGGGACAGCGTAAGGTCCAGCTGGTACCAGAGGGATCACTTCATCCGAACCTCAGCCTC
 AAGCCGCTGCTCTCGAAATCCCCGGCTTCTGACTGATGAAGAGTGTGGCTCATCATCCATCTGGCGC
 AGATGAAGGGTTACAGCGCAGCCAGATCTGCCTACTGAAGAGTATGAAGAGGCAATGAGCACTATGCA
 GGTGAGCCAGCTGGACCTCTCCGGCTGCTGGACCAGAACCGTATGGGACCTTCAGCTCCGTGAGGTT
 CTGGCCAGACTCGCCTGGGAAATGGATGGTGGATGACTCCAGAGAGCATTACAGGAGATGTACGCCGCA
 TCAAGGCTGACCTGATGGTGACGGAGTCTGAGTCTGCAGGAGTTCTCCAACATGGACCTTCGGGACT
 CCACAAGTACATGAGGAGCCACAAGGCAGAGTCCAGTGAAGTGGTGCAGAACAGCCACCATACCTGGCTC
 TACCAGGGTGAGGGTGCCACCACATCATGCGTGCATCCGCCAGAGGGTGTGCGCCTCACTCGCTGT
 CGCCTGAGATCGTGGAGCTCAGCGAGCCGCTGCAGGTTGTTTCGATATGGTGAAGGGGGCCACTACCATGC
 CCACGTGGACAGTGGGCTGTGTACCCAGAGACCATCTGCTCCCATACCAAGCTGGTAGCCAACGAGTCT
 GTACCTTCGAGACCTCCTGCCGCAAGTATCTCCCAACTGGGGGCTGCCTTCAATCCTCAGACCAGGAA
 CACCCATGACACAGGCACAGCCCTGCACCTGTGGCGTGCCCTTGGCATGGGGCCAGGAGATCACTGGGT
 TATCCCGGTAAGCCCTGGGAGCATCCACAACCTGGGACCTGCTCAGTGCCCCCTGCCTTACAGCTAC
 ATGACAGTGTGTTTTATTTGAACAACGCTCACTGGTGGGGCGAGACTGTTTTCCCTGTAGCAGATAACA
 GAACCTACGATGAAATGAGTCTGATTGAGGATGACGTGGACCTCCGTGACACACGGAGGCACTGTGACAA
 GGGAAACCTGCGTGTCAAGCCCCAACAGGGCACAGCAGTCTTCTGGTACAACCTGCCTGATGGGCAA
 GGTGGGTGGGTGACGTAGACGACTACTCGCTGCACGGGGGCTGCCTGGTACGCGCGGCACCAAGTGA
 TTGCCAACAACTGGATTAATGTGACCCAGCCGAGCGCGCAAGCGCTGTTCCAACAGGAGATGGCCCG
 CCTTGGCCGAGAAGGGGGCACCGACTCACAGCCGAGTGGGCTCTGGACCGGGCTACCGCGATGCGCGC
 GTGGAATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203984 representing NM_177938
 Red=Cloning site Green=Tags(s)

MAAAAVTGQRPETAAAEASRPQWAPPDHCQAQAAAGLDGEDAPVRPLCKPRGICSRAYFLVLMVFVHL
 YLGNVLALLLFVHYSNGDESSDPGQHRAGPGPEPTLGPLTRLEGIKVGHERKVQLVTRDRHFIRTL
 KPLLFEIPGFLTDEECLIIHLAQMKGLQRSQILPTEEYEEAMSTMQVSQLDLFRLLDQNRDGHQLREV
 LAQTRLNGWWMTPESIQEMYAAIKADPDGDGVLSQLQEFNMNDRDFHKYMRSHKAESSELVRNSHTWL
 YQGEGAHHIMRAIRQVRLRLTRLSPEIVELSEPLQVVRYGEGGHYHAHVDSGPVYPETICSHTKLVANES
 VPFETSCRQVSPNWGLPSILRPGTPMTQAQPCTVGVPLGMGPGDHWVIVSPWEHPQLGTCVPLPYSY
 MTVLFYLNNTVGGGETVFPVADNRTYDEMSLIQDDVDLRDRRHCDKGNLRVKPQQGTAVFWYNYLPGQ
 GWVGDVDDYSLHGGCLVTRGKWIANNWINVDPSRARQALFQEMARLAREGGTDSQPEWALDRAYRDAR
 VEL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-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

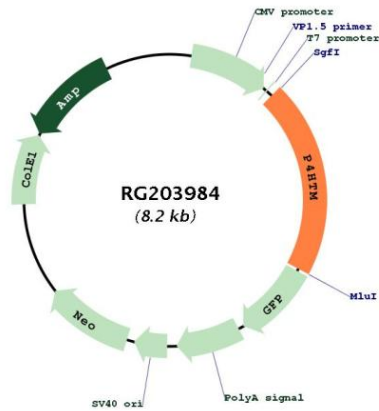
UniProt ID: [Q9NXG6](#)

Cytogenetics: 3p21.3

Protein Families: Druggable Genome, Transmembrane

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 RG203984