

Product datasheet for **SC125461**

PHD4 (P4HTM) (NM_177939) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHD4 (P4HTM) (NM_177939) Human Untagged Clone
Tag: Tag Free
Symbol: PHD4
Synonyms: EGLN4; HIDEA; HIFPH4; P4H-TM; PH-4; PH4; PHD4
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_177939 edited
 ATGGCGGCAGCGCGGTGACAGGCCAGCGCCTGAGACCGCGCGCCGAGGAGGCCTCG
 AGGCCGAGTGGCGCCGCCAGACCACTGCCAGGCTCAGGCGCGCGCGGCTGGGCGAC
 GCGGAGGACGCACCGGTGCGTCCGCTGTGCAAGCCCCGCGGCATCTGCTCGCGCGCTAC
 TTCCTGGTGTGATGGTGTTCGTGCACCTGTACCTGGGTAACGTGCTGGCGCTGTGCTC
 TTCGTGCACTACAGAACGGCGACGAAAGCAGCGATCCCAGGCCCAACACCGTGCCAG
 GGCCCCGGGCCGAGCCACCTTAGGTCCCCTACCCGGCTGGAGGGCATCAAGGTGGGG
 CACGAGCGTAAGGTCCAGCTGGTCACCGACAGGGATCACTTCATCCGAACCTCAGCCTC
 AAGCCGCTGCTCTCGAAATCCCAGCTTCTGACTGATGAAGAGTGTGGCTCATCATC
 CATCTGGCGCAGATGAAGGGTTACAGCGCAGCCAGATCTGCCTACTGAAGAGTATGAA
 GAGGCAATGAGCACTATGCAGGTCAGCCAGCTGGACCTTCCGGCTGCTGGACCAGAAC
 CGTGATGGGCACCTTCAGCTCCGTGAGGTTCTGGCCAGACTCGCCTGGGAAATGGATGG
 TGGATGACTCCAGAGAGCATTACAGGAGATGTACGCCGCGATCAAGGCTGACCCTGATGGT
 GACGGAGTGTGAGTCTGCAGGAGTTTCTCAACATGGACCTTCGGGACTTCCACAAGTAC
 ATGAGGAGCCACAAGGCAGAGTCCAGTGAAGTGGTGGGAAACAGCCACCATACCTGGCTC
 TACCAGGGTGGGGTGCCACCACATCATGCGTGCCATCCGCCAGAGGGTGTGCGCCTC
 ACTCGCCTGTGCGCTGAGATCGTGGAGCTCAGCGAGCCGCTGCAGGTTGTTTCGATATGGT
 GAGGGGGGCCACTACCATGCCACGTGGACAGTGGCCTGTGTACCCAGAGACCATCTGC
 TCCCATAACAGCTGGTAGCCAACGAGTCTGTACCCTTCGAGACCTCCTGCCGCTACATG
 ACAGTGTGTTTTATTTGAACAACGTCACTGGTGGGGGCGAGACTGTTTTCCCTGTAGCA
 GATAACAGAACCTACGATGAAATGAGTCTGATTACAGGATGACGTGGACCTCCGTGACACA
 CGGAGGCACTGTGACAAGGAAACCTGCGTGTCAAGCCCCAACAGGGCACAGCAGTCTTC
 TGGTACAACCTACCTGCCTGATGGCAAGGTTGGTGGGTGACGTAGACGACTACTCGCTG
 CACGGGGCTGCCTGGTCACGCGCGGCACCAAGTGGATTGCCAACAACTGGATTAATGTG
 GACCCAGCCGAGCGCGCAAGCGCTGTCCAACAGGAGATGGCCCGCTTGCCCGAGAA
 GGGGGCACCGACTCACAGCCGAGTGGGCTCTGGACCGGCTACCGCGATGCGCGCGTG
 GAACTCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_177939 unedited</p> <pre>GTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGCCATGGCGGCAGCGG CGGTGACAGGCCAGCGGCCTGAGACCGCGGCCGAGGAGGCCTCGAGGCCGAGTGGG CGCCGCCAGACCACTGCCAGGCTCAGGCGGCCGGGCTGGGCGACGGCGAGGACGCAC CGGTGCGTCCGCTGTGAAGCCCCGCGGCATCTGCTCGCGCGCTACTTCCTGGTGTGA TGGTGTTCGTGCACCTGTACCTGGTAACGTGCTGGCGTGTGCTCTTCGTGCACTACA GCAACGGCGACGAAAGCAGCGATCCCAGGCCCAACACCGTGCCAGGGCCCCGGGCCCG AGCCACCTTAGTCCCTCACCCGGCTGGAGGGCATCAAGGTGGGGCAGGAGCGTAAGG TCCAGCTGGTCACCGACAGGGATCACTTCATCCGAACCCTCAGCCTCAAGCCGCTGCTCT TCGAAATCCCCGGCTTCCTGACTGATGAAGAGTGTGGCTCATCATCCATCTGGCGCAGA TGAAGGGTTACAGCGCAGCCAGATCCTGCCTACTGAAGAGTATGAAGAGGCAATGAGCA CTATGCAGGTCAGCCAGCTGGACCTCTCCGGTGTGGACCAGAACCGTGATGGGCACC TTCAGCTCCGTGAGGTTCTGGCCAGACTCGCCTGGAAATGGATGGTGGATGACTCCAG AGAGCATTAGGAGATGTACGCCGATCAAGGCTGACCCTGATGGTGACGGAGTGTGA GTCTGCAGGAGTCTCCAACATGGGACCTCGGNNACTTCCACAGTACATGAGGAGCCACA AGGCAGAGTCCAGTGAGCTGGTGCAGNACAGNACCATACCTGGCTCTACCAGGGTGGAG GGGTGCCACCACATCATGCGTGCCATCCGNCAGAGGGTGTGCGGCTNNACTCGTGTGC CTGGN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_177939 unedited</p> <pre>ATGGACCGGCCGCAATTTAGNGTCGAGTTTTTTTTTTTTTTTTTTTTCGAACCTTGTGGTT TTTTATTTGACGGGGCAGATGGAGTCAGTACACAATAAATAACATGAATATAGGAACTGC GCCGTATCGCGGCTGGCGGGTGGGGCAAGACATTGGCCAGACCTTTAGTCTGCAGCAGG ACAGAAGGACAGCCGGACCCCTGATCTTGGGCAACTGGCGACCCGCGGCTGGGAACCGGG GCTAACTCTCCCTCAGAGTTCCACGCGCGCATCGCGGTAGGCCCGGTCCAGAGCCCACT CGGGCTGTGAGTCGGTGCCTTCTCGGGCAAGCGGGCCATCTCCTGTTGGAACAGCG CTTGCCCGCTCGGCTGGGGTCCACATTAATCCAGTTGTTGGCAATCCACTTGGTGCCGC GCGTGACCAGGCAGCCCCGTGCAGCGAGTAGTCGTCTACGTACCCACCCAACTTGCC CATCAGGCAGGTAGTTGTACCAGAAGACTGCTGTGCCCTGTTGGGGCTTGACACGCAGGT TTCCCTTGTACAGTGCCTCCGTGTGTACGGAGGTCCACGTATCCTGAATCAGACTCA TTTCATCGTAGGTTCTGTTATCTGCTACAGGAAAACAGTCTCGCCCCCACCAGTACGT TGTTCAAATAAAACAGCACTGTATGTAGCGGCAGGAGGTCTCGAAGGGTACAGACTCGT TGGCTACCAGCTTGGTATGGGAGCAGATGGTCTCTGGGTACACAGGCCCACTGTCCACGT GGGCATGGTAGTGGCCCCCTCACCATATCGAACAACTGCAGCGGCTCGCTGAGCTCCA CGATCTCAGCGACAGGCGAGTGAGGCGCAGCACCTCTGGCGTATGCACGCATGATGTGG GTGGCACCTCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_177939
Insert Size:	1880 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).
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_177939.2](#), [NP_808808.1](#)

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]
Transcript Variant: This variant (1) represents the shortest transcript.