

## Product datasheet for **SC107589**

### PHD4 (P4HTM) (NM\_177938) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHD4 (P4HTM) (NM_177938) Human Untagged Clone
Tag:	Tag Free
Symbol:	P4HTM
Synonyms:	EGLN4; HIDEA; HIFPH4; P4H-TM; PH-4; PH4; PHD4
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_177938, the custom clone sequence may differ by one or more nucleotides

```

ATGGCGGCAGCGCGGTGACAGGCCAGCGGCTGAGACCGCGCGGCCGAGGAGGCTCGAGGCCGAGT
GGGCGCCGACAGCCACTGCCAGGCTCAGGCGGCGCGGCCGAGGAGGCTCGAGGCCGAGT
TCCGCTGTGCAAGCCCCGCGCATCTGCTCGCGGCTACTTCTGGTGTGATGGTGTTCGTGCACCTG
TACCTGGGTAACGTGCTGGCGCTGCTGCTTCTGTGACTACAGCAACGCGACGAAAGCAGCGATCCCG
GGCCCCAACACCGTGCCAGGGCCCCGGGCCGAGCCACCTTAGGTCCCCTCACCCGGCTGGAGGGCAT
CAAGGTGGGGCACGAGCGTAAGGTCCAGCTGGTACCGACAGGGATCACTTCATCCGAACCTCAGCCTC
AAGCCGCTGCTCTCGAAATCCCCGGCTTCTGACTGATGAAGAGTGTGGCTCATCATCCATCTGGCGC
AGATGAAGGGTTACAGCGCAGCCAGATCTGCCTACTGAAGAGTATGAAGAGGCAATGAGCACTATGCA
GGTCAGCCAGCTGGACCTCTCCGGCTGCTGGACCAGAACCCTGATGGGCACCTTCAGCTCCGTGAGGTT
CTGGCCAGACTCGCTGGAAATGGATGGTGGATGACTCCAGAGAGCATTCCAGGAGATGTACGCCGGA
TCAAGGCTGACCCTGATGGTGACGGAGTCTGAGTCTGCAGGAGTCTCCAACATGGACCTTCGGGACTT
CCACAAGTACATGAGGAGCCACAAGGCAGAGTCCAGTGAGCTGGTGGGAACAGCCACCATACCTGGCTC
TACCAGGGTGAGGGTGCCACCACATCATGCGTGCCATCCGCCAGAGGGTGTGCGCCTCACTCGCTGT
CGCCTGAGATCGTGGAGCTCAGCGAGCCGCTGCAGGTTGTTTCGATATGGTGGGGGGCCACTACCATGC
CCACGTGGACAGTGGGCCTGTGTACCCAGAGACCATCTGCTCCCATACCAAGCTGGTAGCCAACGAGTCT
GTACCTTCGAGACCTCTGCCGGCAAGTATCTCCCACTGGGGGCTGCCTTCAATCCTCAGACCAGGAA
CACCCATGACACAGGCACAGCCCTGCACTGTGGCGTGGCCCTTGGCATGGGGCCAGGAGATCACTGGGT
TATCCCGGTAAGCCCTGGGAGCATCCACAACCTGGGACCTGCTCAGTGGCCCCCTGCCTACAGCTAC
ATGACAGTGTGTTTTATTTGAACAACCTACTGGTGGGGGCGAGACTGTTTTCCCTGTAGCAGATAACA
GAACCTACGATGAAATGAGTCTGATTGAGGATGACGTGGACCTCCGTGACACAGGAGGCACTGTGACAA
GGGAAACCTGCGTGTCAAGCCCCAACAGGGCACAGCAGTCTTCTGGTACAACCTGCCTGATGGGCAA
GGTTGGGTGGGTGACGTAGACGACTACTCGCTGCACGGGGGCTGCCTGGTACGCGCGGCACCAAGTGGA
TTGCCAACAACTGGATTAATGTGGACCCAGCCGAGCGCGGCAAGCGCTGTTCCAACAGGAGATGGCCCG
CCTTGGCCGAGAAGGGGGCACCGACTCACAGCCGAGTGGGCTCTGGACCGGGCTACCGCGATGCGCGC
GTGGAACCTGA
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_177938 unedited

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GGGTGCAGATTTTGTATACGATTCATATAGGGCGGCCGGAATTCGCACCAGGCCATGGC
GGCAGCGCGCGGTGACAGGCCAGCGGCTGAGACCGCGCGGCCGAGGAGGCTCGAGGCC
GCAGTGGGCGCCGCCAGACCACTGCCAGGCTCAGGCGGCGGCCGGCTGGGCGACGGCGA
GGACGCACCGGTGCGTCCGCTGTGCAAGCCCCGCGGCATCTGCTCGCGGCTACTTCT
GGTGTGATGGTGTTCGTGCACCTGTACCTGGTAACGTGCTGGCGCTGCTGCTTTCGT
GCACTACAGCAACGGCGACGAAAGCAGCGATCCCGGGCCCCAACACCGTGCCAGGGCCC
CGGGCCCCGAGCCACCTTAGTCCCCTCACCCGCTGGAGGGCATCAAGGTGGGGCACGA
CGTAAGGTCCAGCTGGTCACCGACAGGATCACTTCATCCGAACCTCAGCCTCAAGCC
GCTGCTTTCGAAATCCCCGGCTTCTGACTGATGAAGAGTGTGGCTCATCATCCATCT
GGCGCAGATGAAGGGTTACAGCGCAGCCAGATCCTGCCTACTGAAGAGTATGAAGAGGC
AATGAGCACTATGCAGGTGAGCCAGCTGGACCTTTCGGCTGCTGGACCAGACCGTGATG
GGCACCTTCAGCTCCGTGAGTTTCTGCCAGACTCGTGGGAAAGGGATGGTGGATGGAC
TCCGAGAGCATCCAGGAGATGTCGCCGCGATTCCAGGCTGAACCTGATGGTACGGTGAGC
TACAACCTTTGAAAAGTCTTTCCGTGGACCTTCTGGCCCTTCCAGAGGGCTGAGTCTG
CGGAATTTTCCAACCTGGACCTTCGGGACTTCCAAGTCTGGAGGGCACAGGAAATTCA
GTGGG
    
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_177938

<b>Insert Size:</b>	2750 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_177938.2</a></u> , <u><a href="#">NP_808807.2</a></u>
<b>RefSeq Size:</b>	2294 bp
<b>RefSeq ORF:</b>	1692 bp
<b>Locus ID:</b>	54681
<b>UniProt ID:</b>	<u><a href="#">Q9NXG6</a></u>
<b>Cytogenetics:</b>	3p21.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) contains two additional segments in the coding region, compared to variant 1. The resulting isoform (c) is longer, compared to isoform a.</p>