

## Product datasheet for **SC111403**

### PHC3 (NM\_024947) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHC3 (NM_024947) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHC3
Synonyms:	EDR3; HPH3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_024947, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAAGCGGAATTTAAGGACCATAGTACAGCTATGGATACTGAACCAAACCCGGGAACATCTTCTG
TGTC AACAAACAACCAGCAGTACCACCACCACCACCATCACCCTCCTCCTCGAATGCAGCAGCCACA
GATCTCTGTCTACAGTGGTTCAGACCGACATGCTGTACAGTAATTCAACAGGCATTGCATCGGCCCC
AGCTCAGCTGCTCAGTACCTTCAGCAAATGTATGCAGCCCAACAACAGCACTTGATGCTGCATACTGCAG
CTCTTCAGCAGCAGCATTAAAGCAGCTCCAGCTTCAGAGCCTTGCTGCTGTTCCAGGCAAGTTTGTCCAG
TGGAAAGACCATCTACATCTCCACAGGAAGTGTACACAGCAGTCAAGTATGTCCCAAACGTCTATCAAC
CTCTCCACTTCTCCTACACCTGCACAGTTAATAAGCCGTTCCAGGCTTCAGTTCTACCAGCGGCAGTA
TTACCCAACAGACTATGTTACTAGGGAGTACTTCCCTACCCTAACGGCAAGCCAAGCTCAAATGTATCT
CCGAGCTCAAATGCTGATTTTACACCCCGTACCCTGTGGCTGCTGTACAGTCTGACATTCTGTGTGC
TCGTGTCATCGTCATCTTCTGTGCTGCTGACGCTACTCAGGTTCAGAATTTAACATTACGCAGCCAGA
AGTTGGGTGATTATCTAGCTCACAGAATGGTCCACAAAAAGCACTAGTCAAACCTCAGTATTGACAAT
TTGTCATAACAAAACAACAGTGACCAGTTCTAAAATCAGCCAACGAGATCCTTCTCCAGAAAGTAATAAG
AAAGGAGAGAGCCCAAGCTGGAATCACGAAGCACAGCTGTACCCGGACATCAAGTATTCACCAGTTAA
TAGCACCAGCTTCATATCTCCAATTCAGCCTCATTCTCTAATAAAAACATCAGCAGATTCTCTTCATTC
ACCACCTTCCAAAGTTTCCCATCATCAGCTGATTTACAACAGCAGCAACAGCAAATTCAGCCAATCACA
CTTCAGAAATCAACTCAAGCCACCCCATCCAGCACTGTATACCACTCCAGAACCATGGCCTTCCCTC
CAGCTCCAGTAATGCCAGTACAGCATTGTTACCGATTGAGAGTATCCCTCTCCTTAAACAGTGTCT
TCCTAATCAGTCACAGTCAGCACAGCAGTCTGTAGTGGTGTCTCCTCCACCACCTCATTACCAAGTCA
TCTCCTACTATAATTATTCATCCACAAGCACTTATTCAGCCACACCCTTGTGTGTCATCAGTCTCCAGC
CAGGGCCAAATTTGCAGCAGTCCACTGCTAATCAGGTGCAAGCTACAGCACAGTTGAATCTTCCATCCCA
TCTTCCACTTCCAGCTTCCCTGTTGTACACATTGGCCAGTTCAGCAGTCTGCCTTGGTATCCCCAGGC
CAGCAGATTGTCTCTCCATCACACCAGCAATATTCATCCCTGCAGTCTCTCCAATCCCAATGCAAGTC
CTCCACAGATGTCGACATCTCCTCCAGCTCAGATTCCACCCTGCTTGCAGTCTATGCAGTCTTTACA
AGTGCAGCCTGAAATTTGTCCCAGGGCCAGGTTTGGTGCAAGTGTCTTGGTGTGAGAAGGAACTT
CCAGCTGCAGAAGCTTGGTCCAGTTGCCATTCAGACTTCTCCTCCACAGACTGTTGCGGTAACCC
TACAAGTCAACACCAGCACCTGTTGATCCACCAGTGGTTATCAGGTAGAAGTGTGTGTGAAGAAGA
AATGCCAGAAGAGTCAGATGAATGTGTCGGATGGATAGAACCCACCACCACCTTTGTCTCCAGCA
GCTATAACAGTGGGAGAGGAGAAGATTTGACTTCTGAACATCCTTTGTTAGAGCAAGTGAATACCTG
CTGTGGCATCAGTCAGTCTCAGTAATTAATCTCCATCAGATCCCTCAGATGTTTCTGTTCCACCACC
TCCATTGTTACTTCCAGCTGCCACCACAAGGAGTAACAGTACATCTATGCACAGTAGCATTCCCAGTATA
GAGAACAAACCTCCACAGGCTATTGTTAAACCACAGATCCTAACCATGTTATTGAAGGCTTTGTGATTC
AGGAGGGATTGGAGCCATTTCTGTGAGTGTCTCCTCTTTGCTAATAGAACAGCCTGTGAAAAACGGCC
TCTTTTGGATAATCAGGTGATAAATTCAGTGTGTGTTGAGCCAGAGCTACAGAATAATACAAAACATGCC
GATAATTCATCTGACACAGAGATGGAAGACATGATTGCTGAAGAGACATTAGAAGAAATGGACAGTGAGT
TGCTCAAGTGTGAATTCGTGGGAAAATGGGATGCTAATGAATTTTGGCGTCAAACGATTCTGCAC
TATGTCATGTGCCAAAAGGTACAATGTTAGCTGTTCTAAAAAATTTGCACTTAGTCGTTGGAATCGTAAG
CCTGATAATCAAAGTCTTGGCATCGTGCCGTCGTCCAAGTGGCCCTGATGGGGCAGCGAGAGAACATA
TCCTTAGGCAGCTTCCAATTAATCTATCCATCTGCAGAAGAAGACTTGGCTTCTCATGAAGATTCTGTGCC
ATCTGCTATGACAACTCGTCTGCGCAGGCAGAGCGAGCGGAAAGAGAACGTGAGCTTCGGGATGTGAGA
ATTCGGAAAATGCCTGAGAACAGTGACTTGTACCAGTTGCACAAACAGAGCCATCTATATGGACAGTTG
ATGATGTCTGGGCTTCCATCTTTGCTGGCTGCCAGGATATCGCAGATGAATTCAGAGCACAGGA
GATTGATGGACAGGCCCTTCTTGTGCTGAAAGAAGACCATCTCATGAGTGAATGAATATCAAGCTAGGC
CCAGCCCTGAAGATCTGTGCACGCATCAACTCTCTGAAGGAATCTTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_024947 unedited  
 GGTTTTACACCCGCCGTTGNCGCTAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT  
 AAGCAGAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC  
 CGCTAATTCGGCACGAGGATGGCGGAAGCGGAGTGAGTGACTAGATGATTTAAGGACCAT  
 AGTACAGCTATGGATACTGAACCAAACCCGGGAACATCTTCTGTGTCAACAACAACCAGC  
 AGTACCACCACCACCACCATCACCACTTCTCTCTCGAATGCAGCAGCCACAGATCTCT  
 GTCTACAGTGGTTCAGACCGACATGCTGTACAGTAATTCAACAGGCATTGCATCGGCC  
 CCCAGCTCAGCTGCTCAGTACCTTCAGCAAATGTATGCAGCCCAACAACAGCACTTGATG  
 CTGCATACTGCAGCTCTTCAGCAGCAGCATTTAAGCAGCTCCCAGCTTCAGAGCCTTGCT  
 GCTGTTACAGCAAGTTTGTCCAGTGGAAGACCATCTACATCTCCACAGGAAGTGTACACA  
 CAGCAGTCAAGTATGTCCCAAACGTCTATCAACCTCTCCACTTCTCTACACCTGCACAG  
 TTAATAAGCCGTTCCAGGCTTCCAGTTCTACCAGCGGCAGTATTACCCAACAGACTATG  
 TTACTTAGGGAGTACTTCCCTACCCTAACGGCAAGCCAAGCTCAAATGTATCTCCGAGC  
 TCANATGCTGATTTTACACCCGCTACCACTGTGGCCTGCTGTACAGTCTGCATTTCTGT  
 TTGTCTTCGGCGTCATCGTCTTCTTGTGAGTCTGCAGTACTCAGGTTTCAGATTTTAC  
 CTTACCGCCCAAATGGGGTGGGGTTTTTCTACTCCACAAGGGCCCCCAAGCCTTGT  
 CACTTACTCTTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_024947 unedited  
 NNGGTAATACTATGNACCGCGCCGAATCTAGATCGAGTTTTTTTTTTTTTTTTTTACTT  
 TAAAAAGGATTCTTTATATTAATGATAAACATCACCTTTAAAAAATATCTAGTATAACA  
 CATTTCTTTGAAAATATCATGGCCCTCTGTAACAAGTCTTCAATGTTTCATGTAACCT  
 GTAAAATTAATTTTACCAATGTTTATTAATTATGAAAATGCATGATGAATTATTACCT  
 GTAGAAGAAATGTCAGTATTTGATGTGGAGATCCAATGTGCTTGCTATCCACCACAAT  
 AAGTGTCAATTTAGACCAAGTTAGGCCTTTACCTTACAAGTTTTTGTGAGAAAAGTAA  
 AACTGCTGTTTTATCAAGGCTTCATGTTCTGTAAAGATTCCTTCAAAAAGTTGATGCGT  
 GCACAGATCTTCAGGGCTGGGCC TAGCTTGATATTCATTGCACTCATGAGATGGTCTTCT  
 TTCAACAAGAGAAAGGCTGTCCATCAATCTCCTGTGCTCTGAAATCATCTGCGATATCC  
 TGGCAGCCAGGCCAAGAATGGATGAAAGCCAGACATCATTCACTGTCCATATAGATGG  
 CTCTGTTTTGCCACTTGGTAACAAGTCACTGTTCTCAAGCCTTTTTCCAAATCTCACAT  
 TCCGAAGCTCACGTTCTTTTTCCGCTCGCTCTGCCTGCGCAAAACAATTTGTCTAACCA  
 GATGCACAAAAATCTTTCTGAGAAACCAATCTTTTTCTGCGAATGGTAAAATAATTGG  
 AAACCGCCCTAAGGAAATGTTCTCTCCCTGCCCTCAGGGGCCACTTGGACAACAGCCA  
 CCAATCCCCAGAATTTGATTATTAAGGCTTACGAATTCACCACCTTATTCCAAATTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_024947

**Insert Size:**

3700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_024947.2](#), [NP\\_079223.2](#)

**RefSeq Size:** 12687 bp

**RefSeq ORF:** 12687 bp

**Locus ID:** 80012

**UniProt ID:** [Q8NDX5](#)

**Cytogenetics:** 3q26.2

**Domains:** SAM

**Gene Summary:** Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.