

Product datasheet for SC127500

PHC1 (NM_004426) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PHC1 (NM_004426) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PHC1 |
| Synonyms: | EDR1; HPH1; MCPH11; RAE28 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC127500 sequence for NM_004426 edited (data generated by NextGen Sequencing) |

```

ATGGAGACTGAGAGCGAGCAGAAGTCCCAATTCACCAATGGGAGTTCAGCTCAGGGGGC
AGCTCTCGGCCCCAGATAGCTCAAATGTCACTATATGAACGACAAGCAGTGCAGGCTCTG
CAAGCACTGCAGCGGCAGCCCAATGCAGCTCAGTATTTCCACCAGTTCATGCTCCAGCAG
CAGCTCAGTAATGCCAGCTGCATAGCCTGGCTGCCGTCCAGCAGGCCACAATTGCTGCC
AGTCGGCAGGCCAGCTCCCCAAACACCAGCACTACACAGCAGCAGACTACCACCACCCAG
GCCTCGATCAATCTGGCCACCACATCGGCCGCCAGCTCATCAGCCGATCCCAGAGTGTG
AGCTCTCCCAGTGTACCACCTTGACCAATCTGTGCTACTGGGGAACACCACCTCCCCA
CCCCTCAACCAGTCTCAGGCCAGATGTATCTACGGCCACAGCTGGGAAACCTATTGCAG
GTAACCCGAACCCTGGGTGGGAATGTGCCTCTAGCCTCCCAACTCATCCTGATGCCTAAT
GGGGCGGTGGCTGCAGTCCAGCAGGAGGTGCCATCTGCTCAGTCTCCTGGAGTTCATGCA
GATGCAGATCAGGTTTCAAACTTGGCAGTAAGGAATCAACAGGCCTCAGCTCAAGGACCT
CAGATGCAAGGCTCCACTCAGAAGGCCATTCTCCAGGAGCCTCCCCTGTCTCTAGCCTC
TCCCAGGCCTCTAGCCAGGCCCTAGCGGTGGCAGAGGCTTCTCTGGGGCCACAAACCAG
TCCCTCAACCTTAGTCAAGCTGGTGGAGGCAGTGGGAATAGCATCCCAGGGTCCATGGGT
CCAGGTGGAGGTGGGCAGGCACATGGTGGTTTGGGTGAGTTCCTCAGGAATGGGT
GGTGGGAGCTGTCCCAGGAAGGGTACAGGAGTGGTGCAGCCCTTGCCTGCAGCCCAACA
GTGACTGTGAGCCAGGGCAGCCAGACAGAGGCAGAAAGTGCAGCAGCCAAGAAGGCAGAA
GCAGATGGGAGTGGCCAGCAGAATGTGGCATGAACCTGACACGGACAGCCACACCTGCC
CCCAGCCAGACACTTATTAGCTCAGCCACCTACACACAGATCCAGCCCCATTCACTGATT
CAGCAACAGCAACAGATCCACTCCAGCAGAAACAGGTGGTATCCAGCAGCAGATTGCC
ATCCACCACCAGCAGCAGTTCCAGCACCAGGAGTCCCAGCTCCTTACACAGCTACACAC
CTCCAGTTGGCGCAGCAGCAGCAGCAACAACAGCAACAGCAGCAACAGCAGCAGCCG
CAAGCCACCACCCTCACTGCCCCCTCAGCCACCACAGGTCCCACCTACTCAGCAGTCCCA
CCTTCCCAGTCCCAGCAGCAAGCCAAACCCTGGTCGTTTCCAGCCATGCTTCAGTCTTCA
CCCTTGTCTCTTCCACCTGATGCAGCCCTAAGCCACCAATCCCATCCAATCCAACCA

```



[View online »](#)

CCTGTAGCACCTATCAAGCCGCCTCAGTTAGGGGCCGCTAAGATGTCAGCTGCCAGCAA
 CCACCACCCATATCCCTGTGCAAGTTGTAGGCACTCGACAGCCAGGTACAGCCAGGCA
 CAGGCTTTGGGGTTGGCAGACTGGCAGCTGCTGTACTACTTCCCGGGGATGCCAGGT
 ACAGTGCAGTCTGGTCAGGCCATTTGGCCTCCTCGCCACCTTCATCCCAGGCTCCTGGT
 GCACTGCAGGAGTGCCCTCCCACATTGGCCCTGGGATGACCCTTGCTCCTGTGCAGGG
 ACAGACATGTGGTAAAGGGTGGGGTACCACCTCCTCACCTGTTGTAGCCAGGTGCTAAA
 GCTGCCTTCTATATGCAGTCTGTGCACCTGCGGGTAAACCCAGACATTGGCTGTCAA
 CGCAAGGCTGACTCTGAGGAGGAGAGATGATGTCTCCACATTGGGTTCAATGCTTCT
 GCCAAGGCATCTCCAGTAGCAGAAAGCCAAAAGTCATGGACGAGAAGAGCAGTCTTGA
 GAAAAAGCTGAATCAGTGGCTAATGTGAATGCTAATACTCCAAGCAGTGAAGTAGACC
 TTGACCCCGCCCTTTCAGTACCGCTCCTACACTAGCCATGGTGTCTAGACAAATGGGT
 GACTCAAACCCACAGGCCATCGTGAAGCCCAAGATTCTCACCCACATCATTGAAGGC
 TTTGTTATCCAGGAAGGAGCAGAACCTTCCCGGTGGGTGTTCTCAGTACTGAAGGAG
 TCTGAGAAGCCACTACAGACTGGCCTCCGACAGGGCTGACTGAGAATCAGTCAGGTGGC
 CCTTTGGGAGTGGACAGCCATCTGCTGAGTTAGATAAGAAGGCCAATCTCCTGAAGTGC
 GAGTACTGTGGGAAGTACGCCCCGACAGCAGTTTCGTGGCTCTAAGAGTTCTGCTCC
 ATGACTTGCCTAAGAGGTACAATGTGAGCTGTAGCCATCAGTTCGGGCTGAAGAGGAAA
 AAAATGAAAGAGTTTCAAGAAGCCAATATGCTCGGTTTCGACAGGCGTGGACCCCGCCG
 AGCTCCTCTGACATTGCCCGTGCCAAGATTGAGGCAAGTGCACCGGGTCAAGAAGAC
 TCTAGCCGGGGTTCAGATAATCCAGTTATGATGAAGCACTCTCTCCAACATCTCCTGGG
 CCTTTATCAGTAAGAGCTGGGCATGGAGAACGTGACCTGGGGAATCCCAATACAGCTCCA
 CCTACACCGGAATTACATGGCATCAACCCTGTGTTCTCCTGTCAGTAATCCAGCCGTTGG
 AGTGTAGAGGAGGTGTACGAGTTTATTGCTTCTCTCAAGGCTGCCAAGAGATTGCAGAG
 GAATTTTCGCTCACAGGAGATTGATGGACAGGCCCTTTTATTACTTAAAGAAGAACATCTT
 ATGAGTGCATGAACATCAAGCTGGGCCCTGCCCTCAAGATCTGCGCAAGATAAATGTC
 CTAAGGAGACCTAA

Clone variation with respect to NM_004426.2
 93 t=>a;918 a=>g

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_004426 unedited
 TATAGGCGCCGCGAATTCGGCACGAGGCTCGTGTCTCTGAGTCCAGTGAATAAATCCA
 GTAATCTATAAACTGTGCCGTGCTGCCTTAATCCTTACCCACTTTTTTTCTTCACATG
 CTGATAATGAGGATTCATGGGTCTTGGTGCAGACAGAGCACCAGCCTTGGGGACCCTGGA
 CCACTATCATGGAGACTGAGAGCGAGCAGAACTCCAATCCACCAATGGGAGTTCTAGCT
 CAAGGGGAGCTCTCGGCCCCAGATAGCTCAAATGTCAGTATATGAACGACAAGCAGTGC
 AGGCTCTGCAAGCACTGCAGCGGCAGCCCAATGCAGCTCAGTATTTCCACCAGTTCATGC
 TCCAGCAGCAGCTCAGTAATGCCAGCTGCATAGCCTGGCTGCCGTCCAGCAGGCCACAA
 TTGCTGCCAGTCGGCAGGCCAGCTCCCCAACACCAGCACTACACAGCAGCAGACTACCA
 CCACCCAGGCCTCGATCAATCTGGCCACCACATCGGCCGCCAGCTCATCAGCCGATCCC
 AGAGTGTGAGCTCTCCAGTGTACACCTTGACCCAATCTGTGCTACTGGGGAACACCA
 CCTCCCCACCCCTCAACCAGTCTCAGGCCAGATGTATCTACGGCCACAGCTGGGANACC
 TATTGCAGGTAACCGAACCCCTGGGTCCGAATGTGCCTTAGCCTNCCAACCTCATNCTGA
 TGCCTATGGGGGCGGTGGCTGCAGTCCAGCAGGAGGTGCCATCTGCTCAGTCTCCTGGAG
 TCATGCAATGCAGNACAGGTTTCAAGAACTTGAGTAGGGAATCACAGGCCTCAGCTCAGGG
 ACCTCANATGCAGGCTCACTCAAAGGCATTNNCTCAGAGCTNCCTGCTTGAANNCTTC
 CAGGCTNTAGCAG

| | |
|-------------------------------------|--|
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_004426 unedited NNTTACTTGNCCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTACTGA GGAAAAAAAAATTAATTTTTTTGTTATATAAGGAATAGTGCTAAGGCAGGTACTTATAC TCCTGACCTCAGCCCCACACTCTGGTTTTATAAAGCTATAGGACAGAGCAGAGATGGA ACTGAAAAACAGGGTAGAAAATAACATAAATTGGAGGGGAACAGTGGGATGCAGAAAGAA TGACAACAGCCACATGTGCCCCAGTCAAATACTTTTAGTCCCTGCAGCAGAAGATGCCAA CCAAGTCTCTATACTGGCTGGGATCCTGCCATGGATGCAGGAGAAAAAATTCATCACA AGGGAGTAAGTGACAACAAAAAGAAAAAAGTCTGAGCCACAGCTACACTGGGAGGGGGGA GGACCAGATTTTGTACTTCTGTACACAAGCTAGAAAAACCCTACCTCTCCCATTGGGC AGGCAACCTGACATTCCACCCAGTTCCTTGCTTACCATACTATGTATTCTCCTCTTGG AGAATTAAGACCTGGGCTAAATGCTCCACTCCAGGATAAGGCTGAGCAGTCTAGTTCTC TAGACTGCCTCTTTATAAAGATTGGATTAAGGTACGTGAAATGGTGAGAACTGTAAAGA TTTTAAAAATAAAGTAGAACCCAGAGAAAATGTCAAAGCTGCCGCCATGTAGCACCAGC AACCAATCTTGCACCTCTCTCCCTGTCTCAGTAATCCCCTACAGAAGTTACATGATT GGGACAACCTTNTCTTCCCTGCAAGTCTGCTGGTACCCAGTTATACCTGGACAGGGGAN AGTGTCTGCCTTAGCTGTNTGTGCAAGAGGCCACCCTAGTCTNNCTGAGACATTNNAT CTGGCGCAGATCTTGAGGCAGNCCCAGCTGATGTCATGGACTCATAA |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_004426 |
| Insert Size: | 4100 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: | <ol style="list-style-type: none"> 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_004426.2 , NP_004417.2 |
| RefSeq Size: | 5206 bp |
| RefSeq ORF: | 3015 bp |
| Locus ID: | 1911 |
| UniProt ID: | P78364 |
| Cytogenetics: | 12p13.31 |
| Domains: | SAM |
| Protein Families: | ES Cell Differentiation/IPS, Stem cell - Pluripotency |

Gene Summary:

This gene is a homolog of the *Drosophila* polyhomeotic gene, which is a member of the Polycomb group of genes. The gene product is a component of a multimeric protein complex that contains EDR2 and the vertebrate Polycomb protein BMH1. The gene product, the EDR2 protein, and the *Drosophila* polyhomeotic protein share 2 highly conserved domains, named homology domains I and II. These domains are involved in protein-protein interactions and may mediate heterodimerization of the protein encoded by this gene and the EDR2 protein. [provided by RefSeq, Jul 2008]