

Product datasheet for **RG222530**

PHC1 (NM_004426) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHC1 (NM_004426) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PHC1
Synonyms: EDR1; HPH1; MCPH11; RAE28
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222530 representing NM_004426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGACTGAGAGCGAGCAGAAGCTCCAATTCACCAATGGGAGTTCTAGCTCAGGGGGCAGCTCTCGGC
 CCCAGATAGCTCAAATGTCACCTTATGAACGACAAGCAGTGCAGGCTCTGCAAGCACTGCAGCGGCAGCC
 CAATGCAGCTCAGTATTTCCACCAGTTCATGCTCCAGCAGCAGCTCAGTAATGCCAGCTGCATAGCCTG
 GCTGCCGTCAGCAGGCCACAATTGCTGCCAGTCGGCAGGCCAGCTCCCCAAACACCAGCACTACACAGC
 AGCAGACTACCACCACCCAGGCCTCGATCAATCTGGCCACCACATCGGCCGCCAGCTCATCAGCCGATC
 CCAGAGTGTGAGCTCTCCAGTGTACACCTTGACCCAATCTGTGCTACTGGGGAACACCACCTCCCCA
 CCCTCAACCAGTCTCAGGCCAGATGTATCTACGGCCACAGCTGGGAAACCTATTGCAGGTAAACCGAA
 CCCTGGGTGCGAATGTGCCTCTAGCCTCCCAACTCATCCTGATGCCTAATGGGGCGGTGGCTGCAGTCCA
 GCAGGAGGTGCCATCTGCTCAGTCTCCTGGAGTTCATGCAGATGCAGATCAGGTTGAGAAGTGGCAGTA
 AGGAATCAACAGGCCTCAGCTCAAGGACCTCAGATGCAAGGCTCCACTCAGAAGGCCATTCTCCAGGAG
 CCTCCCCTGTCTCTAGCCTCTCCAGGCCTCTAGCCAGGCCCTAGCGGTGGCACAGGCTTCTCTGGGGC
 CACAAACCAGTCCCTCAACCTTAGTCAAGCTGGTGGAGGAGTGGGAATAGCATCCAGGGTCCATGGGT
 CCAGTGGAGGTGGCAGGCACATGGTGGTTGGGTGAGTTCCTCAGGAATGGGTGGTGGGAGCT
 GTCCAGAAAGGGTACAGGAGTGGTGCAGCCCTTGCTGCAGCCAAACAGTACTGTGAGCCAGGGCAG
 CCAGACAGAGGCAGAAAGTGCAGCAGCCAAGAAGGCAGAAAGCAGATGGGAGTGGCCAGCAGAATGTGGGC
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 TCCAGCCCCATTCAGTATTCAGCAACAGCAACAGATCCACCTCCAGCAGAAACAGGTGGTGGTCCAGCA
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 CCCTCACTGCCCTCAGCCACCACAGTCCACCTACTCAGCAGGTCCCACCTTCCAGTCCAGCAGCA
 AGCCAAACCCTGGTCGTTAGCCCATGCTTCAGTCTTACCCTTGTCTCTTCCACTGATGCAGCCCT



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AAGCCACCAATCCCATCCAATCCAACCACCTGTAGCACCTATCAAGCCGCCTCAGTTAGGGGCCGCTA
 AGATGTCAGTGGCCAGCAACCACCACCCCATATCCCTGTGCAAGTTGTAGGCACTCGACAGCCAGGTAC
 AGCCCAGGCACAGGCTTTGGGGTTGGCAGAGCTGGCAGCTGCTGTACCTACTTCCCGGGGATGCCAGGT
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 CGTGACCTGGGAATCCAATACAGCTCCACCTACACCGGAATTACATGGCATCAACCCTGTGTTCTGT
 CCAGTAATCCCAGCGTTGGAGTGTAGAGGAGGTGACGAGTTTATTGCTTCTCTCAAGGCTGCCAAGA
 GATTGCAGAGGAATTCGCTCACAGGAGATTGATGGACAGGCCCTTTTATTACTTAAAGAAGAACATCTT
 ATGAGTGCCATGAACATCAAGCTGGGCCCTGCCCTCAAGATCTGCGCCAAGATAAATGTCTCAAGGAGA
 CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222530 representing NM_004426
 Red=Cloning site Green=Tags(s)

METESEQNSNSTNGSSSSGGSSRPQIAQMSLYERQAVQALQALQRQPNAAYFHQFMLQQQLSNAQLHSL
 AAVQQATIAASRQASSPNTSTTQQTTTTQASINLATTSAQLISRSQSVSSPSATTLTQSVLLGNTTSP
 PLNQSQAQMYLRPQLGNLLQVNRTLGRNVPLASQLILMPNGAVAAVQQEVPQAQSPGVHADADQVQNLAV
 RNQQASAQGPQMGSTQKAIPPGASPVSSLSQASSQALAVAQASSGATNQLNLQAGGGSGNSIPGSMG
 PGGGGQAHGGLGQLPSSGMGGGSCPRKGTGVVQPLPAAQTVTVSQQSQTEAESAAAKKAEADGSGQQNVG
 MNLTRTATPAPSQTLISSATYTIQPHSLIQQQQIHLQQKQVVIQQQIAIHHQQQFQHRQSOLLHTATH
 LQLAQQQQQQQQQQQPQATTLTAPQPPQVPPQQVPPSQSQQAQTLVVQPMQLSSPLSLPPDAAP
 KPPPIQSKPPVAPIKPPQLGAAKMSAAQPPPHIPVQVVGTRQPGTAQAQALGLAQLAAVPTSRGMPG
 TVQSGQAHLASSPPSSQAPGALQECPPTLAPGMTLAPVQGTAVVKGATTSSPVVAQVPAAFYMQSVHL
 PGKPQTLAVKRKADSEERDDVSTLGSMLPAKASPVAESPKVMDEKSSLGEKAESVANVNANTPSSSELVA
 LTPAPSVPPPTLAMVSRQMGDSKPPQAIKPKQILTHIEGFVIQEGAEPFPVGCSQLLKESEKPLQTGLP
 TGLTENQSGGPLGVDSPSAELDKKANLLKCEYCGKYAPAEQFRGSKRFSMTCAKRYNVSCSHQFRLKPK
 KMKEFQEANYARVRRRPPRRSSDIARAKIQGKCHRGQEDSSRGSNDSSYDEALSPSPGPLSVRAGHGE
 RDLGNPNTAPPTPELHGINPVFLSSNPSRWSVEEVYEFIASLQGCQEIAEEFRSQIEDGQALLLKEEHL
 MSAMNIKLGPAKIKAKINVLKET

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_004426

ORF Size: 3012 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:

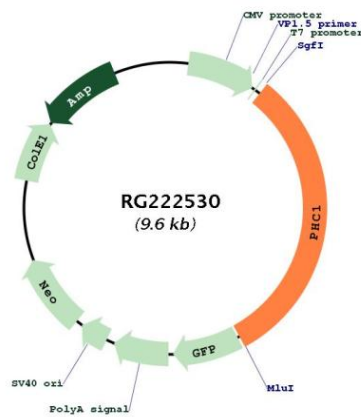
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_004426.3](#)

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]

Product images:



Circular map for RG222530