

Product datasheet for **RC220613**

PHC2 (NM_198040) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PHC2 (NM_198040) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PHC2 |
| Synonyms: | EDR2; HPH2; PH2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>RC220613 representing NM_198040
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAATGAGCTGCCAGTCCCACATACATCTAGCAGTGCCTGTGCCACCAGCAGTACCAGCGGGGCCA
 GTAGCAGCAGTGGCTGCAACAACAGCAGCAGTGGTGGAAGTGGCCGCCACCAGGCCCCAGATTTCTGT
 GTACAGTGGTATTCCAGACCGGCAGACCGTGCAGGTGATCCAGCAGGCCCTGCACAGACAGCCAGCAGC
 GCCGCTCAGTACCTGCAGCAGATGTACGCCGCCAGCAGCAGCACCTCATGCTGCAGACCGCGGCTCC
 AGCAGCAGCACCTCAGCAGCGCCAGCTCCAGAGCCTGGCAGCCGTACAGCAGGCAAGCCTGGTATCCAA
 TAGACAAGGAAGCACTTCAGGCAGCAATGTGTCTGCGCAGGCCCGGCCAGTCTCTTCGATCAACCTG
 GCAGCCTCCCAGCAGCAGCCAGCTCCTCAACCGGGCCAGAGTGTGAAGTCTGCAGCAGCCTCAGGCA
 TCGCTCAGCAGGCTGTGCTCTTGGGCAACAGTCTTCCCAGCCCTGACTGCAAGCCAAGCAGATGTA
 TCTGAGGGCACAGATGCTCATCTTACGCCACAGCCACCGTTCGCTACTGTGCAGCCTGAGCTCGGCACT
 GGTCCCCCGCCCGGCCCCACCCCGCCAGGTACAGAACTTGACCCTCCGAACACAGCAGACACCAG
 CGGCAGCAGCCTCGGGCCCAACCCCACTCAGCCTGTCCTGCCAGCTTGGCCCTGAAACCCACGCCGGG
 CGGTAGCCAGCCTCTGCCTACCCAGCAGCAGAGCAGAAATACTGCTCAGGCTTCCCCTGCAGGTGCCAAG
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 CAGCAGCAGCCACAGCCACAACAGCAGCAGCCCGCCCGCCAGCAGTACAGGCTGTGCTCCAAGCTGAGC
 CCCACCCAGCTCGCTCAGTCTTCCAAGCTGGCCCTCCAGCCAGCTCAGAGGCCATGCCATGCC
 ACTAGGCCCGGTTACACCCGCCCTGCCACTCCAGTGTCCCACTGCCAACCTGCACAAGCCTGGCGGCACT
 CAGCAGTGTACCCCTCCACACCTGATACTGGGCTCAGAAATGGACATCCCGAGGGCGTGCCCAACCC
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 CCACATCAGCAGGCTATTGCTCAGTGCCTGCTGGTGGCTGCCTGTACCCAGGACCCCTAACATCCAGC
 CGTCCCCAGCTCAGGACAGGGCAGGGCATTGTTTCACTGACTGACCGACCTCAGCAGCCCGGCATGAC
 CTCAGGGAACGGAACTCTGCCTCCAGCATCGCCGGCAGTGCACCCAGAAATGGTGAAGAATAAACACCA
 CAGGCCATTGTGAAACCCAAATCCTGACGCATGTTATCGAAGGGTTTGTGATCCAGGAGGGGGCGGAGC
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 GGAATGTAGAAGACGTCTACGAATTCATCCGCTCTCTGCCAGGCTGCCAGGAGATAGCAGAGGAATTCCG
 TGCCAGGAAATCGACGGGCAAGCCCTGCTGCTCAAGGAGGACCCTGATGAGCGCCATGAACATC
 AAGCTGGGCCCCGCTGAAGATCTACGCCGATCAGCATGCTCAAGGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220613 representing NM_198040
 Red=Cloning site Green=Tags(s)

MENELPVPHTSSSACATSSSTSGASSSSGCNNSSSGGSGRPTGPQISVYSGIPDRQTVQVIQQALHRQPST
 AAQYLQQMYAAQQQHLMLQTAALQQQHLSSAQLQSLAAVQQASLVSNRQGSTSGSNVSAQAPAQSSSINL
 AASPAQAQLLNRAQSVNSAAAASGIAQQAVLLGNTSSPALTASQAQMYLRAQMLIFPTATVATVQPELGT
 GSPARPPTPAQVQNLTLRTQQTPAAAASGPTPTQPVLPSLALKPTPGGSQPLPTPAQSRNTAQASPAGAK
 PGIADSVMEPHKKGDGNSVPGSMGRAGLSRTVPAVAHPLIAPAYAQLQPHQLLPQPSSKHLQPQFVI
 QQQPQPQQQPPPPQSRPVLQAEPHPQLASVSPSVALQPSSEAHAMPLGPVTPALPLQCPTANLHKPGGS
 QQCHPPTPDTGPNQHPEGVPHTPQRRFQHTSAVILQLQPASPPQQCVDDWKEVAPGEKSVPETRSGPS
 PHQQAIVTAMPGGLPVPTSPNIQPSPAHETGQGI VHAL TDLSSPGMTSGNGNSASSIAGTAPQNGENKPP
 QAIVKPQILTHVIEGFVIQEGAEPFPVGRSSLLVGNLKKKYAQGFLEKLPQQDHTTTTDSMEEPYLQE
 SKEEGAPLKLKCELCGRVDFAYKFKRSKRFCSMACAKRYNVGCTKRVGLFHSRSLKQKAGAATHNRRRA
 SKASLPLTKDTKKQPTGTVPLSVTAALQLTHSQEDSSRCSDNSSYEELSPI SASSTSRRRQGRDLE
 LPDMHMRDLVGMGHHFLPSEPTKWNVEDVYEFIRSLPGCQEI AEEFRAQEIDGQALLLLKEDHLSAMNI
 KLGPAIKIYARISMLKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

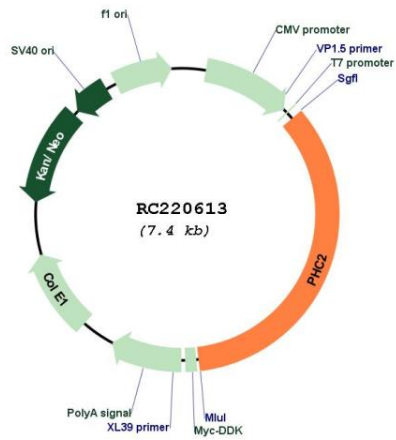
SgfI-MluI

Cloning Scheme:



| | |
|-------------------------------|---|
| ACCN: | NM_198040 |
| ORF Size: | 2574 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: | <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_198040.2 , NP_932157.1 |
| RefSeq Size: | 3873 bp |
| RefSeq ORF: | 2577 bp |
| Locus ID: | 1912 |
| UniProt ID: | Q8IXK0 |
| Cytogenetics: | 1p35.1 |
| MW: | 90.7 kDa |
| Gene Summary: | In <i>Drosophila melanogaster</i> , the 'Polycomb' group (PcG) of genes are part of a cellular memory system that is responsible for the stable inheritance of gene activity. PcG proteins form a large multimeric, chromatin-associated protein complex. The protein encoded by this gene has homology to the <i>Drosophila</i> PcG protein 'polyhomeotic' (Ph) and is known to heterodimerize with EDR1 and colocalize with BMI1 in interphase nuclei of human cells. The specific function in human cells has not yet been determined. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC220613