

Product datasheet for RC217729

PHC3 (NM_024947) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHC3 (NM_024947) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHC3
Synonyms:	EDR3; HPH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217729 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATACTGAACCAAACCCGGGAACATCTTCTGTGTCAACAACAACCAGCAGTACCACCACCACCACCA
TCACCACCTTCTCTCGAATGCAGCAGCCACAGATCTCTGTCTACAGTGGTTCAGACCGACATGCTGT
ACAGGTAATTCAACAGGCATTGCATCGGCCCCAGCTCAGCTGCTCAGTACCTTCAGCAAATGTATGCA
GCCAACAAACAGCACTTGATGCTGCATACTGCAGCTCTTCAGCAGCAGCATTTAAGCAGCTCCAGCTTC
AGAGCCTTGCTGTGTTAGGCAAGTTTGTCCAGTGAAGACCATCTACATCTCCACAGGAAGTGTAC
ACAGCAGTCAAGTATGTCCAAACGTCTATCAACCTCTCCACTTCTCTACACCTGCACAGTTAATAAGC
CGTTCACAGGCTTCCAGTCTACAGCGGAGTATTACCCAACAGACTATGTTACTAGGGAGTACTTCCC
CTACCCTAACGGCAAGCAAGCTCAAAATGTATCTCCGAGCTCAAAATGCTGATTTTACACCCGCTACCAC
TGTGGCTGCTGTACAGTCTGACATTCCTGTTGTCTCGTCGTCATCGTCATCTTCTGTGCTGCTGACGCT
ACTCAGTTTCAGAAATTAACATTACGCAGCCAGAAGTTGGGTGTATTATCTAGCTCACAGAATGGTCCAC
CAAAAAGCACTAGTCAAACCTCAGTCATTGACAATTTGTATAACAAAACAACAGTGACCGATTTCTAAAT
CAGCCAACGAGATCCTTCTCCAGAAAGTAATAAGAAAGGAGAGGCCAAGCCTGGAATCACGAAGCACA
GCTGTACCCCGGACATCAAGTATTCACCAAGTAAATAGCACCAGCTTCATATTCTCCAATTCAGCCTCATT
CTTAATAAAAACATCAGCAGATTCTCTTATTACCACCTTCCAAAGTTTCCCATCATCAGCTGATATT
ACAACAGCAGCAACAGCAAATTCAGCCAATCACACTTCAGAATTAACACTCAAGACCCACCCCATCCCAG
CACTGTATACCACTCCAGAACCATGGCCTTCTCCAGCTCCAGTAATGCCAGTCACAGCATTGTTTAC
CGATTCAGAGTCACTCCCTCTCCTTTAACAGTGTCTCCTAATCAGTCACAGTCAGCACAGCAGTCTGTAGT
GGTGTCTCTCCACCACCTATTACCAAGTCAGTCTCTACTATAAATTATTCATCCACAAGCACTATT
CAGCCACACCTCTTGTGTCATCAGCTCTCCAGCCAGGCGCAAATTTGCAGCAGTCCACTGCTAATCAGG
TGCAAGCTACAGCACAGTTGAATCTTCCATCCCATCTTCCACTTCCAGCTTCCCCTGTTGTACACATTGG
CCCAGTTCAGCAGTCTGCCTTGGTATCCCAGGCCAGCAGATTGTCTCTCCATCACACCAGCAATATTCA



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TCCCTGCAGTCTCTCCAATCCCAATTGCAAGTCTCCACAGATGTCGACATCTCTCCAGCTCAGATTC
 CACCACTGCCCTTGCAGTCTATGCAGTCTTTACAAGTGCAGCCTGAAATCTGTCCCAGGGCCAGGTTTT
 GGTGCAGAATGCTTTGGTGTGAGAAGAGGAACTCCAGCTGCAGAAGCTTTGGTCCAGTTGCCATTTAG
 ACTCTTCTCTCCACAGACTGTTGCGGTAAACCTACAAGTGAACCACCAGCACCTGTTGATCCACCAG
 TGGTTTATCAGGTAGAAGATGTGTGTGAAGAAGAAATGCCAGAAGAGTGCAGATGAATGTGTCCGGATGGA
 TAGAACCCACCACCACCCTTTGTCTCCAGCAGCTATAACAGTGGGGAGAGGAGAAGATTTGACTTCT
 GAACATCTTTGTTAGAGCAAGTGAATTACCTGCTGTGGCATCAGTCAGTCTTCAGTAATTAATCTC
 CATCAGATCCCTCACATGTTTCTGTTCCACCACCTCCATTGTTACTTCCAGCTGCCACCACAAGGAGTAA
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 CCAAGTGGCCCTGATGGGCAGCGAGAGAACATATCCTTAGGCAGCTTCCAATTACTTATCCATCTGCAG
 AAGAAGACTTGGCTTCTCATGAAGATTCTGTGCCATCTGCTATGCAACTCGTCTGCGCAGGCAGAGCGA
 GCGGGAAGAGAACGTGAGCTTCGGGATGTGAGAAATCGGAAAATGCCTGAGAACAGTGAATTGCTACCA
 GTTGACAAAACAGAGCCATCTATATGGACAGTTGATGATGTCTGGGCCTTCATCCATTCTTTGCCTGGCT
 GCCAGGATATCGCAGATGAATTCAGAGCACAGGAGATTGATGGACAGGCCCTTCTCTTGTGAAAGAAGA
 CCATCTCATGAGTGAATGAATATCAAGCTAGGCCAGCCCTGAAGATCTGTGCACGCATCAACTCTCTG
 AAGGAATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>RC217729 protein sequence
 Red=Cloning site Green=Tags(s)

MDTEPNP GTSSVSTTTSTTTTTITSSSRMQQPQISVYSGSDRHAVQVIQQALHRPSSAAQYLQQMYA
 AQQQHLMLHTAALQQQHLSSSQLQSLAAVQASLSSGRPSTSPGVSVTQSSMSQTSINLSTSPTPAQLIS
 RSQASSSTSGSITQQTMLL GSTSPTLTASQAQMYLRAQMLIFTPATTVAAVQSDIPVVSSSSSSSQSAA
 TQVQNLTLRSQKLGVLSSQNGPPKSTSQTQSLTICHNKTTVTSKISQRDPSPESNKKGESPSLESRST
 AVTRTSSIHQLIAPASYSPIQPHSLIKHQQIPLHSPPSKVSHHQLILQQQQQIQIPITLQNSTQDPPPSQ
 HCIPLQNHGLPPAPSNAQSQHCSPIQSHPSPLTVSPNQSQSAQQSVVSPPPHSPSQSPTII IHPQALI
 QPHPLVSSALQPGPNLQQSTANQVQATAQLNLP SHLPLPASPVVHIGPVQQSALVSPGQIVSPSHQQYS
 SLQSSPIPIASPPQMSTSPPAQIPPLPLQSMQSLQVQPEILSQGQVLVQNALVSEELPAAEALVQLPFQ
 TLPPPQTAVNLQVQPPAPVDPPVVYQVEDVCEEEMPEESDECVRMDRTPPPPTLSPAAITVGRGEDLTS
 EHPLELQVELPAVASVSAVSVIKSPSPDPSHVSVPPLLLLPAATTRNSTSMHSSIPSIENKPPQAIKPKQ
 ILTHVIEGFVIQEGLEPFVSRSSLLIEQPVKRPLLDNQVINSVCVQPELQNNTKHADNSSDTEMEDMI
 AEETLEEMDSELLKCEFCGKMGYANEF LRSKRFTMSCAKRYNVSCSKFALSRWRKPDNQLGHRGRR
 PSGPDGAAREHILRQLPITYPSAEEDLASHEDSVPSAMTTRLRRQSERERERELRDVIRIKMPENS DLLP
 VAQTEPSIWTVDVWAFIHSLPGCQDI ADEFRAQEIDGQALLLLKEDHLSAMNIKLGPAIKICARINSL
 KES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6712_b05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_024947

ORF Size: 2949 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 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](#)

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 Size: 12687 bp

RefSeq ORF: 2988 bp

Locus ID: 80012

UniProt ID: [Q8NDX5](#)

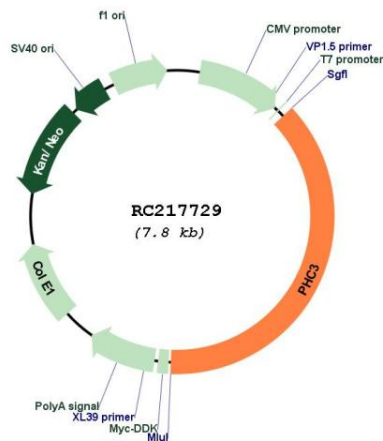
Cytogenetics: 3q26.2

Domains: SAM

MW: 106.2 kDa

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]

Product images:



Circular map for RC217729