

Product datasheet for MR216191

Phc3 (NM_153421) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Phc3 (NM_153421) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Phc3
Synonyms: E030046K01Rik; Edr3; Hph3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216191 representing NM_153421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGATAGTGAGCCGAGCTCTGGAACATCCGTGTCAACAACAGCCAGCAGTACCACCACCACCACCATCA
 CCACATCTCTCCGAATGCAGCAGCCACAGATCTCTGTCTACAGCGGGTCAGACCGACATGCTGTTCA
 GGTAATTCAGCAGGCCTTGCATCGGCCCCCGCTCGGCAGCTCAGTACCTGCAGCAGATGTACGGGCT
 CAGCAGCAGCACCTGATGCTGCACACGGTCTCTGCAGCAGCAGCACCTAAGCAGCTCGCAGCTCCAGA
 GCCTTGCGGCTGTCCAGCAAGTTGTCCAGTGAAGACCATCTACATCCCCACAGGCAGTGTTACACA
 ACAGTCAAGTATGCCCAGACATCTATCCTGTCCGCTTCTCCTGCACCTGCTCAGCTGATGAACCGTCC
 CAGACGTCAGTCTACAGCGGCAAGTATTACCCAGCAGACTATGCTACTCGGGAGTACCTCTCCACCC
 TAACTGCCAGCCAAGCCAGATGTATCTCCGAGCTCAGATGCTGATTTTACACCTGCTACCACTGTGGC
 TGCTGTACAGTCTGACATCCCTGTTGTCTCGTCTCACCGTCACCTTCTGTGCTGCTGACAGTGTCTG
 GTTCAGAAATTAACCTTACGCAGCCAGAAGCTGGGTGCTTATCTAGCTCACAGAATGGCTACCAAAAA
 GCGCTGGTCAAACCCAGTCTTGACAATTTGCCATAATAAAACAACAGTGACCAGTTCTAAAATCAGCCA
 ACGAGACCCTTCCAGAGAGCAAGAAGGGAGGAAGCCAGGTCTGGAATCTCGGAGCACGGCCGCTCACT
 CGGACATCAAGCATCCACCAGTTAATAGCACAGCTTCATATTCTCCAATTCAGCCTCATTCTCTAATCA
 AACATCAGCAGATTCTCTTATTACACCTCCTAAAGTTTCCATCATTAGCTGCTATTACAACAGCA
 ACAACAGCAAATTCAGCAATCACCCCTTACAGTCCAAGTCAAGATCCACCCCCATCCCAGCACTGTATC
 CCACTCCCAAACCATGGCCTTTCTCCGGCTCCCAGTAATGCCAGCCGCAGCATTGCTCCCAGTTCAGA
 GCCATCTCCGCCTTAACTGTGTCTCCCAACCAGGCACAGTCCGCACAGCAGTCTGTAGTGGTGTCTCC
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 CCTTTGTGTCTCAGCTCTTCAAACAGGGCAAATTTGCAGCAGGCTGCTGCTGATCAGGTACAGTCCA
 CCGCACAGCTGAATCTTCCATCCATCTTCCACTCCAGCATCCCCTGTTGTACACATTGGCCCTGTCCA
 GCAGTCTGCCTTGGTGTCCCTGGTCAGCAGATGGTGTCCCAACATCACACCAGCAGTATTAGCCCTA



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CAGTCCTCTCAATTCCCATCGCGACCCCTCCACAGATGTCGGCATCTCCTCCAGCTCAGCTCCCACCAC
 TGCCCTTGCAGTCTATGCAGTCTTTACAAGTGCAGCCTGAAATCTATCCAGGGCCAGGTTTTGGTGCA
 GAATGCTTTGGTGTGAGAAGAGGAGCTACCTGCTGCAGAAGCTTTGGTCCAGTTGCCATTTAGACTCTT
 CCTCTCCACAGACTGTTGCGGTAAATCTACAAGTACAGCCGCCAGCACCTGTTGATCCACCAGTGGTTT
 ATCAAGTAGAAGATGTGTGTGAGGAAGAAATGCCAGAGGAGTCCGATGAGTGTGCAAGGATGGACAGAAC
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 CCTTTGTTAGAGCAAGTGGAGTTGCCTGTGTGGCCTCAGTCAGTGCTTCCGTGATCAAGTCTCCATCAG
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 AAGAGAGCGAGAGCTTCGGGATGTGAGGATTAGGAAGTGCCTGAGAATAGTGACTTGCTCCAGTCGCA
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 ACGTTGCAGATGAGTTCAGGGCACAAGAGATTGATGGGCAGGCCCTGCTCTTGTCTAAAAGAAGACCATCT
 CATGAGTGAATGAACATGAAGCTGGGCCAGCCCTGAAGATTTGTGCACGCATCAACTCTCTGAAGGAC
 TCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>MR216191 representing NM_153421
 Red=Cloning site Green=Tags(s)

MDSESSGTSVSTTASSTTTTTITSSSRMQPQISVYSGSDRHAVQVIQQALHRPPSSAAQYLQQMYAA
 QQQHLMLHTAALQQHLSSSQLQSLAAVQASLSSGRPSTPTGSVTQSSMSQTSILSASPAPAQLMNRS
 QTSSSTSGSITQQTMLLGGSTPPLTASQAQMYLRAQMLIFTPATTVAAVQSDIPVSSSPSPSCQSAQAQ
 VQNLTLRSQKLGVLSSSQNGSPKSAGQTQSLTICHNKTTVTSSKISQRDPSPEKKGSPGLESRSTAVT
 RTSSIHQLIAPASYSPIQPHSLIKHQIPLHSPPPKVSHHQLLLQQQQQIQPITLQSPSQDPPPSQHCI
 PLPNHGLSPAPSNAQPQHCSPVQSHPPPLTVSPNQAQSAQSVVSPPPHSPSQSPTII IHPQALIQPH
 PLVSSALQTGPNLQQAADQVQSTAQLNLP SHLPLPASPVVHIGPVQQSALVSPGQMVSPSTSHQQYSAL
 QSSPIPIATPPQMSASPPAQLPPLPLQSMQSLQVQPEILSQGVLVQNALVSEELPAEALVQLPFQTL
 PPPQTVAVNLQVQPPAPVDPVVVYQVEDVCEEEMPEESDECARMDRTPPPPTLSPAAVTVGRGEDLTSEH
 PLLEQVELPAVASVSASVIKSPDPHTASAPAPLLIPAATRSTSLASSTPSLENKPPQAIIVKPIIL
 THVIEGFVIQEGLEFPVSRSSLLIEQPVKRPLLDNQVNSVCVQPELQNNTKHADNSSDTEIEDMMAE
 ETLEEMSELLKCEFCGKMGYPNEFLRSKRFCTMSCAKRYNVSCSKFALSRWNRKPDNQLGHRGRRPS
 GPEGAAREHILRQLPITYPSAEDVASHEDVPVPSAMTTRLRRQSERERERELRDVIRKMPENSDLLPVA
 QTEPSIWTVDVWAFIHSLPGCQDVADEFRAQIDGQALLLLKEDHLSAMNMKLGPAIKICARINSLKD
 S

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_153421

ORF Size: 2943 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_153421.2](#), [NP_700470.2](#)

RefSeq Size: 11066 bp

RefSeq ORF: 2946 bp

Locus ID: 241915

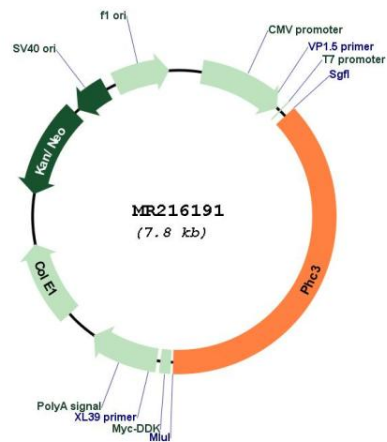
UniProt ID: [Q8CHP6](#)

Cytogenetics: 3 A3

MW: 105.8 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216191