

Product datasheet for **MR210945**

Phc2 (NM_001195130) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phc2 (NM_001195130) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phc2
Synonyms:	A3galt2; AA415044; D4Ertd810e; D130050K19Rik; Edr2; Mph2; p36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210945 representing NM_001195130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAATGAGCTGCCAGTCCCCACACATCCAACCGGCCAGTGTACCACCAACACCAGTGGGACCA
 ATAGTAGCAGTGGCTGCATCAGCAGCAGCGGCGGTGGTGGTGGCAGCGGTGGCCGCCACTGCACCCCA
 GATTTCTGTGTACAGTGGGATTCCTGACCGGCAGACTGTGCAGGTGATCCAGCAGGCCCTGCACAGGCAG
 CCCAGCACGGCGGCAGTACCTGCAGCAGATGTATGCTGCCAGCAACAACACCTCATGCTGCAGACAG
 CGGCCTTACAGCAGCAGCACCTCAGCAGCGCAGCTCCAGAGCCTGGCAGCAGTGCAGCAGGCAAGCCT
 GGTGGCCAACAGACAAGGAAGTACTCCCGGTAGCAGTGTGTCTCACAGGCTCCTGCCAGTCTTCTTCA
 CTCAATCTGGCAGCCTCCCGGCAGCAGCCAGCTTATCAACCGGCACAGAGTGTCAATTCAGCCGCAG
 CCTCGGCCCTTGGCCAGCAGGCCGTGCTCTTGGCAACACGTCTCCCTGCCCTGACTGCCAGCCAAGC
 ACAGATGTACCTCAGGGCGCAGATGCTCATCTTACGCCACGGCCACCCTCGCTACTGTTCAGCCTGAG
 CTCTGCACTGGTTCCTGCTCGGCCCTACCCCTGCCAGGTACAGAACCTGACGCTTCGCACCCAGC
 AGACACCAGCAGCAGCAGCCTCGGGCCCTCCCCCACCCAGCCTGTCTGCCAGCTTGGCCCTGAAACC
 CACACCCAGCAGTAGCCAGCCTCTGCCTGCCACCACAGGGCAGGACCATGGCTCAGGGTTCCTGCG
 GGTGCCAAGCCTAGTGGGACTGACAATGCGCCAGAGACTCAAGGCAGGAGATGGTAACTGCAACATGG
 AGGGCCGGCCAGGGCCTGGCCGGCAGTTCCTGCTGTGGTACTCACCCGCTCATTGCACAGCTTATGC
 TCACCTGCAGTCACACCAGCTCTCCACAGCCGCCAGGAAGCACCCACAGCCCAAGTTCGGCCAA
 CAGCAACCACAGCCACCAGCCTGCACCCCAAGTCCAGTCCCAACCCAGCTTGCCTCAGTCTCCCAA
 GCCTGGCCCTACAGTCCAGTCCAGAAGCCATGCCCTGCCTTAGGCTCAGTGACACAGGCCCTGCCTCT
 CCAGTGTCTACCACGCATGTCCACAAGCCAGGGAACAGCCAGCAGTGTACCTTCCACACTAGACACC
 GGGTCTCAGAATGGACATCCTGAGGGTGGTCCCATCCCCCAGCGAAGGTTCCAGCACACCTCAGCTG
 TGATCTTACAGGTGCAGCCCGTCTCCAGTTACGCCCCAGCAGTGTGCTCCCGATGACTGGAAGGAAGT
 GGTGCCAGCGGAGAAGAGTGTGCTGTGGCTCGGCCAGGCCCTCCACACCAGCAAGCCATCATCCCT
 GCCATACCCGGTGGCTTGCCTGGACCAAGAGTCCCAACATCCAGCAGTGCACAGCTCACGAGACAGGGC
 AGGGCATTGTTTACGACTGACCAGCTCAGCAGCCCGCATGACCTCAGGGAACGGAACCTCTGCCTC
 CAGCATCGCCGCACTGCCCCCAAGATGGTGAAGATAAACCACCACAGGCCATTGTGAAACCCCAATC
 CTGACGCATGTTATCGAAGGGTTTGTGATCCAGGAGGGGGCGGAGCCTTCCCGGTGGGACGCTCGTCCC
 TGCTGGTAGGGAATCTCAAAAAGAAGTATGCACAGGGGTTCTTGCTGAGAAGCCTCCACAGCAGGACCA
 CACCACCACCACCGACTCAGAGATGGAGGAGCCCTACCTGCAAGAATCCAAGAGGAGGGCACTCCCTC
 AAACCAAGTGTGAGCTCTGTGGACGGGTGGACTTTGCCTACAAGTTCAAGCGTTCCAAGCGCTTCTGTT
 CCATGGCTTGTGCAAGAGGTAATATGTGGATGCACCAACAGAGTGGGACTTTTTCACTCAGACCGAAG
 CAAGCTGCAGAAGGCAGGGACCACAACCCACAACCGCCGACGGCCAGCAAGGCCAGTCTGCCACACTC
 ACCAAGGACACCAAGAAGCAGCCCTCAGGCACTGTACCCCTTTCAGTTACTGCCGCTTGCAGCTGGCGC
 ACAGCCAGGAGGACTCCAGCCGGTGTCTAGATAACTCCAGCTATGAGGAGCCCTTGTACCCATCTCAGC
 CAGCTCGTCCACCTCGCAGCGGCCAAGGCCAGAGGGACCTGGATCTCCCTGACATGCACATGAGGGAC
 CTTGTGGCGTGGGACACCACTTCTGCCGAGCGAGCCCAAAAATGGAATGTAGAGGATGTCTATGAGT
 TCATCCGCTCTCTGCCAGGCTGCCAGGAGATCGCGGAGGAGTTCCGTGCCAGGAGATTGATGGGCAAGC
 CTTGCTGCTGCTCAAGGAGGACCACCTAATGAGCGCCATGAACATCAAGCTAGGGCCCGCCTGAAGATC
 TACGCACGCATCAGCATGCTCAAGGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210945 representing NM_001195130
 Red=Cloning site Green=Tags(s)

MENELPVPHTSNRASVTTNTSGTNSSSGCISSSGGGGGSGRPTAPQISVYSGIPDRQTVQVIQQALHRQ
 PSTAAQYLQQMYAAQQHLMLQTAALQQHLSSAQLQSLAAVQQASLVANRQGSTPGSSVSSQAPAQSSS
 LNLAASPAQAQLINRAQSVNSAAAASGLAQAVLLGNTSSPALTASQAQMYLRAQMLIFTPTATVATVQPE
 LCTGSPARPPTPAQVQNLTLRTQQTPAAAASGPPPTQPVLPSLALKPTPSSSQPLPAPPQGRMAQGSPA
 GAKPSGTDNAPETLKAGDGNMGRPGGRAVPAVATHPLIAPAYAHLQSHQLLPQPPAKHPQPQFVAQ
 QQPQPPRPAPQVQSQPQLASVSPSLALQSSPEDHALPLGSVTQALPLQCSTTHVHKPGNSQQCHLPTLDT
 GSQNGHPEGGSHPPQRRFQHTSAVILQVQPASPVTPQQCAPDDWKEVVPAAEKSVVVARPGSPHQQAIIIP
 AIPGGLPGPKSPNIQQCPAHETGQIVHALTDLSSPGMTSGNGNSASSIAGTAPQNGENKPPQAIIVKQPI
 LTHVIEGFVIQEGAEPFVGRSSLLVGNLKKKYAQGFLPEKPPQDHTTTTDSMEEPYLQESKEEGTPL
 KLKCELCGRVDFAYKFKRSKRFCSMACAKRYNVGCTKRVGLFHSRSLKQKAGTTTHNRRRASKASLPTL
 TKDTKKQPSGTVPLSVTAALQLAHSQEDSRCSNDSSYEELSPIASSSTSRRRQGRDLPLDMHMRD
 LVGVGHFLPSEPTKWNVEDVYEFIRSLPGCQEI AEEFRAQEIDGQALLLLKEDHLSAMNIKLPALKI
 YARISMLKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

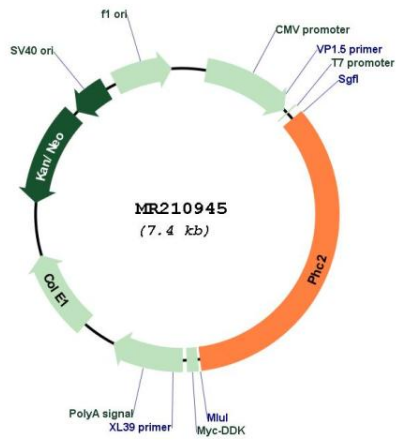
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001195130
ORF Size:	2550 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_001195130.1 , NP_001182059.1
RefSeq Size:	3949 bp
RefSeq ORF:	2553 bp
Locus ID:	54383
UniProt ID:	Q9QWH1
Cytogenetics:	4 62.12 cM
MW:	89.8 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210945