

## Product datasheet for MC209973

### Phc2 (NM\_001195083) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Phc2 (NM\_001195083) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Phc2  
**Synonyms:** A3galt2; AA415044; D4Ertdd810e; D130050K19Rik; Edr2; Mph2; p36  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209973 representing NM\_001195083  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGACCTCAGGGAACGGAACTCTGCCTCCAGCATCGCCGGCACTGCCCCCAGAATGGTGAGAATAAAC  
 CACCACAGGCCATTGTGAAACCCCAATCCTGACGCATGTTATCGAAGGGTTTGTGATCCAGGAGGGGGC  
 GGAGCCTTTCCCGTGGGACGCTCGTCCCTGCTGGTAGGGAATCTCAAAAAGAAGTATGCACAGGGGTTT  
 TTGCCTGAGAAGCCTCCACAGCAGGACCACACCACCACCGACTCAGAGATGGAGGAGCCTACCTGC  
 AAGAATCCAAAGAGGAGGGCACTCCCCTCAAATCAAGTGTGAGCTCTGTGGACGGTGGACTTTGCCTA  
 CAAGTTCAAGCGTTCCAAGCGCTTCTGTTCCATGGCTTGTGCAAAGAGGTATAATGTGGGATGCACAAA  
 CGAGTGGGACTTTTTCACTCAGACCGAAGCAAGCTGCAGAAGGCAGGGACCACAACCCACAACCGCCGAC  
 GGGCCAGCAAGGCCAGTCTGCCACACTCACCAAGGACACCAAGAAGCAGCCCTCAGGCACTGTACCCCT  
 TTCAGTTACTGCCGCTTGCAGCTGGCGCACAGCCAGGAGGACTCCAGCCGGTGTCTAGATAACTCCAGC  
 TATGAGGAGCCCTTGTACCCATCTCAGCCAGCTCGTCCACCTCGCGACGGCCCAAGGCCAGAGGGACC  
 TGGATCTCCCTGACATGCACATGAGGGACCTTGTGGCGTGGGACCACTTCTGCCAGCGGACCCAC  
 AAAATGGAATGTAGAGGATGTCTATGAGTTCATCCGCTCTCTGCCAGGCTGCCAGGAGATCGCGGAGGAG  
 TTCCGTGCGCAGGAGATTGATGGCAAGCCTTGTCTGCTCAAGGAGGACCACCTAATGAGCGCCATGA  
 ACATCAAGCTAGGGCCCGCCCTGAAGATCTACGCACGCATCAGCATGCTCAAGGACTCCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001195083  
**Insert Size:** 972 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001195083.1</a></u> , <u><a href="#">NP_001182012.1</a></u>
<b>RefSeq Size:</b>	2549 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	54383
<b>UniProt ID:</b>	<u><a href="#">Q9QWH1</a></u>
<b>Cytogenetics:</b>	4 62.12 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks 8 coding exons in the 5' region, and initiates translation at a downstream AUG, compared to variant 1. The resulting protein (isoform B) has a shorter N-terminus, compared to isoform A. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>