

## Product datasheet for **MC202903**

### **Pcgf2 (NM\_009545) Mouse Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** Pcgf2 (NM\_009545) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pcgf2  
**Synonyms:** mel-18; Mel18; Rnf110; Zfp144  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC016419 sequence for NM\_009545  
 GTCTCTCTCTCTTTTTTTTTCTTTCCCTCCCTTCCAAGATGGCCGAAGTGGATTCCCCCTCTTAACGATT  
 TGGAGTCTCCCTCGACCCTCCTCTTTGTGCAGCAGCCCCCTGCTAAGACCCTGCTTGGCAGGCAGGAA  
 ACAGCCTCCAGGATCCAGTCCGGCTGTCCGCTCGCCTGATCCTGTTCAAGTTGAAGGCTTGGGAGGGTGA  
 CACTTCCCAAATCTCCTCAGTCCTGACCCGGCATCATGCATCGGACCACACGGATTAATAATCACGGAGC  
 TGAACCTCACCTCATGTGTGCCCTCTGTGGGGCTATTTTATTGATGCCACCACCTATTGTGAATGCTT  
 ACATTCCTTCTGCAAACTGCAATCGTACGCTACTTGGAGACCAAAATACTGCCCATGTGTGACGTC  
 CAGGTCCATAAACTCGACCCTGCTGAGCATCAGATCAGACAAAACCTCCAGGACATTGTCTACAAGT  
 TGGTGCCTGGGCTTTTTAAAGATGAAATGAAACGGCGACGGGACTTCTATGCAGCATACCCCTGACAGA  
 GGTCCCAACGGCTCCAACGAGGACCGAGGCGAGGTCCTGGAACAGGAGAAGGGGCTCTGGGTGACGAC  
 GAGATTGTCAGTCTTCCATTGAGTTCTACGAAGGCGTCAGGGACCGAGAGGAGAAGAAGAACCTCACGG  
 AGAATGGAGATGGGGACAAGGAGAAGACAGGAGTGCATTCTGCGGTGCCAGCAGCCATGACCCTCAT  
 GCACCTGGCAAAGTTCCTCCGCAACAAAATGGATGTGCCAGCAAGTACAAGGTGGAGATCCTCTATGAA  
 GATGAGCCCTGAAGGAATACTACACCTTAATGGACATTGCGTACATCTACCCCTGGCGAAGGAATGGGC  
 CTCTCCCCTCAAGTACCGTGTCCAGCCAGCCTGCAAGCGGCTCACCCCTGCCACGGTGCCAACCCCTC  
 AGAAGGCACCAACACCAGCGGGCATCAGAGTGTGAGTCAGTCAGCGACAAGGCTCCCAGCCCTGCCACC  
 CTTCCGGCCACCTCCTCCTCTTGGCCAGCCCTGCGACCCATCCCATGGCTCTCCAGCTCCCACGGCC  
 CCCCAGCTACCCATCCTACTTCCCCACTCCACCTTCACTGCGGCTGGGACCACCACAGCTACCAATGG  
 GGGCACTTGAAGTGCCTGCAACGCCATCCTCCACCAGCAGGGGGCGCAAGATGACTGTTAATGGCGCT  
 CTTGCCCCCTTGAGGAAAGGGACCCTCCTTCCGAGCCATCTTTTCCCTCTTTTACTTTTTCTG  
 GGCCCCCTTTTCACTTTTGACTTTCCCTGGTTCTCCCATTTTTCAGAGTGGGAGGTGGGTTTTATAAAT  
 AAATCTATATATATAAATATATATATGTACATAGGAAAAACCAATATACATACTTATTTTCAAAAAA AAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_009545  
**Insert Size:** 1029 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>	<a href="#">BC016419</a> , <a href="#">AAH16419</a>
<b>RefSeq Size:</b>	1479 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	22658
<b>UniProt ID:</b>	<a href="#">P23798</a>
<b>Cytogenetics:</b>	11 61.06 cM
<b>Gene Summary:</b>	<p>Transcriptional repressor (PubMed:8521824). Binds specifically to the DNA sequence 5'-GACTNGACT-3' (PubMed:8521824). Has tumor suppressor activity (PubMed:8521824). May play a role in control of cell proliferation and/or neural cell development (Probable). Regulates proliferation of early T progenitor cells by maintaining expression of HES1(PubMed:15728456). Also plays a role in antero-posterior specification of the axial skeleton and negative regulation of the self-renewal activity of hematopoietic stem cells (PubMed:8625838, PubMed:15183898). 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. Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1-3 encode the same protein.</p>