

Product datasheet for **MC207686**

Pcgf3 (NM_172716) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pcgf3 (NM_172716) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pcgf3
Synonyms: 2310035N15Rik; AI662857; D630042K08Rik; DONG1; E430039C14; Rnf3; RNF3A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207686 representing NM_172716
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGACCAGGAAGATTAACTCTGGGATATAAATGCCACATCACCTGCCGCCTGTCAGCGGCTACC
TCATTGACGCAACCACAGTGACTGAGTGTGGCACACATTCTGCAGGAGCTGCCTGGTGAAGTATCTGGA
GGAGAATAATACCTGCCACCTGCAGGATCGTGATCCATCAGAGCCACCCATTACAGTATATCGGTCAT
GACAGAACCATGCAGGACATTGTTTACAAGCTGGTGCCAGGCCTCCAGGAAGCGGAAATGAGGAAACAGA
GGGAATTCTATCAAAACCTGGGCATGGAGTACCAGGTGACATCAAGGGGAGGCGTGCTCAGCAAAACA
GCCTTAGATCCCCGAAATGGTGAACCAAGCAGACGACAATTCAAATAAAGAGACAGCAGAGGAGAAG
CAGGAGGAGGACAATGACTACCACAGGAGTGACGAGCAGGTAAGCATCTGTCTGGAATGCAACAGCAGCA
AACTACGTGGCCTCAAGCGGAAGTGGATCAGATGCTCAGCCCAAGCAACTGTGCTGCACCTGAAAAAATT
TATCGCCAAGAAGCTTAACCTCTCCTCTTTAATGAGCTGGACATTTTATGCAATGAGGAGATCTGGGC
AAGGACCACACTCTCAAGTTCGTGGTTGTTACAAGATGGAGATCAAGAAGGCACCCCTCCTGCTACACT
ACAGACCAAGATGGACTTGCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172716
Insert Size: 726 bp



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OTI Disclaimer:	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).
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_172716.4 , NP_766304.2
RefSeq Size:	3731 bp
RefSeq ORF:	726 bp
Locus ID:	69587
UniProt ID:	Q8BTQ0
Cytogenetics:	5 F
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 (PubMed:28596365). Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity (By similarity). Plays a redundant role with PCGF5 as part of a PRC1-like complex that mediates monoubiquitination of histone H2A 'Lys-119' on the X chromosome and is required for normal silencing of one copy of the X chromosome in XX females (PubMed:28596365).[UniProtKB/Swiss-Prot Function]