

## Product datasheet for **RR202077**

### **Pcgf6 (NM\_001013154) Rat Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcgf6 (NM_001013154) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcgf6
Synonyms:	Rnf134
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR202077 representing NM_001013154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGGCTGAGACGGACGCCACGAAAACAAGCGCGCCTCTGAGGCCAAGCGAGCCTCGGCCATGC  
TGCCACCGCCCTCCGCTCCCATCTCTCCGCCCGCCCTATCCCGGCGCCAGCGGCCGGTGGAGAGGGCCC  
GGCGTCCCTGGCCAGGCGGGCGCACCCGGCTGTTCTCGCTCTCGGCCCCGGAGTTGGAGCCCAGCGC  
AGCCTGGGCCGCTTGAGAGGCCGCTTCGAGGACTACGATGAAGAGTTGGAAGAGGATGAGGAGATGGAGG  
AGGAGGAAGAGGAGGAGGAAGAGATGAGCCACTTCTCTGCGTCTGGAGTCCGGACGGCGGACTCCGA  
GGACGAGGAAGAGCGCCTGATCAACCTGGTTGAGCTGACCCCTACATCTTGTGCTCCATTTGCAAAGGT  
TACTTGATAGATGCCACCACTATTACAGAATGTCTCCACACCTTCTGTAAAAGCTGCATTGTGAGACATT  
TTACTATAGCAACAGATGCCCAAATGCAACATAGTCGTCCACCAGACTCAGCCTTTTATAATATAAG  
GTTGGACCGGCAGTTACAAGACATAGTATACAAATAGTAGTCAATCTAGAGGAAAGAGAAAAAAGCAA  
ATGCATGACTTCTATAAAGAAAGAGGTCTAGAAGTCCCTAAGCCTGCTGTTCCACAGCCCCTCCGTCGAA  
GCAAAGGAAGAACCAAGAAAGCCCTAGAGTCAGTGTTCGTATTCCGCTGAACTTGATGTGCTTTATT  
ACTTGAGTTCATTGGTGCTAATGAAGACACAGGACATTTAAGCCATTGAAAAGAAGTTTGTGCGTGTT  
TCAGGAGAAGCAACTATTGGCATGTAGAAAAATTTCTTAGAAGAAAAATGGGTCTTGATCCAGCTTGTC  
AGGTAGACATCATCTGTGGGATCACTTACTGGAGCGGTACCAAACCTCTCGGGAAATCCGACGTGCAAT  
AGGTGACACAGCAATGCAGGATGGTCTACTTGTCTTATTATGGTCTTGTGGTTTCTCCTTTAAAAATA  
ACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RR202077 representing NM\_001013154  
Red=Cloning site Green=Tags(s)

MEEAETDATENKRASEAKRASAMLP PPPPPISPPALIPAPAAGEEGPASLAQAGAPGCSRSRPELEPER  
 SLGRLRGRFEDYDEELEDEEMEEEEEEEEEMSHFSRLRESGRADSEDEEERLINLVELTPYILCSICKG  
 YLIDATTITECLHTFCCKSCIVRHFYYSNRCPKCNIVVHQTPLYNIRLDRQLQDIVYKLVNLEEREKKQ  
 MHDFYKERGLEVPKPAVPQVPVASKGRTKKALESVFRIPPELDVSLLEF IGANEDTGHFKPLEKKFVRV  
 SGEATIGHVEKFLRRKMGLDPACQVDIICGDHLLERYQTLREIRRAIGDTAMQDGLLVLHYGLVVSPLKI  
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001013154

**ORF Size:** 1053 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\\_001013154.1](#), [NP\\_001013172.1](#)

**RefSeq Size:** 2110 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 309457

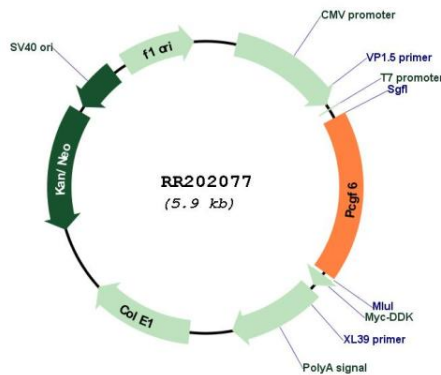
**UniProt ID:** [Q5XI70](#)

**Cytogenetics:** 1q54

**MW:** 39.7 kDa

**Gene Summary:** Transcriptional repressor. May modulate the levels of histone H3K4Me3 by activating KDM5D histone demethylase. 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.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR202077