

Product datasheet for **MG202980**

Pcgf3 (NM_172716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcgf3 (NM_172716) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcgf3
Synonyms:	2310035N15Rik; AI662857; D630042K08Rik; DONG1; E430039C14; Rnf3; RNF3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202980 representing NM_172716 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGACCAGGAAGATTAACTCTGGGATATAAATGCCACATCACCTGCCGCTGTGCAGCGGCTACC
TCATTGACGCAACCACAGTGACTGAGTGTCTGCACACATTCTGCAGGAGCTGCCTGGTGAAGTATCTGGA
GGAGAATAATACCTGCCACCTGCAGGATCGTGATCCATCAGAGCCACCCATTACAGTATATCGGTCAT
GACAGAACCATGCAGGACATTGTTACAAGCTGGTGCCAGGCCTCCAGGAAGCGGAAATGAGGAAACAGA
GGGAATTCTATCACAACCTGGGCATGGAGTACCAGGTGACATCAAGGGGAGGCGTGCTCAGCAAAACA
GCCTTAGATCCCGAAATGGTAAACCAAGCAGACGACAATCAAATAAGAGACAGCAGAGGAGAAG
CAGGAGGAGGACAATGACTACCACAGGAGTGACGAGCAGGTAAGCATCTGTCTGGAATGCAACAGCAGCA
AACTACGTGGCCTCAAGCGGAAGTGGATCAGATGCTCAGCCCAAGCAACTGTGCTGCACCTGAAAAAATT
TATCGCCAAGAAGCTTAACCTCTCCTCTTAATGAGCTGGACATTTTATGCAATGAGGAGATCCTGGGC
AAGGACCACACTCAAGTTCGTGGTTGTACAAGATGGAGATCAAGAAGGCACCCCTCCTGCTACACT
ACAGACCAAGATGGACTTGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202980 representing NM_172716
Red=Cloning site Green=Tags(s)

MLTRKIKLWDINAHITCRLCSGYLIDATTVTECLHTFCRSCLVKYLEENNTCPTCRIVIHQSHPLQYIGH
 DRTMQDIVYKLVPLGQEAEMRKQREFYHKLGMVPGDIKGEACSAKQHLDPNGETKADDNSNKETAEEK
 QEEDNDYHRSDEQVSICLECNSSKLRGLKRWIRCSAQATVLHLKKFIAKKLNLSSFNELDILCNEEILG
 KDHTLKFVVVTRWRFKAPLLLHYRPKMDLL

TRTRPLE - GFP Tag - V

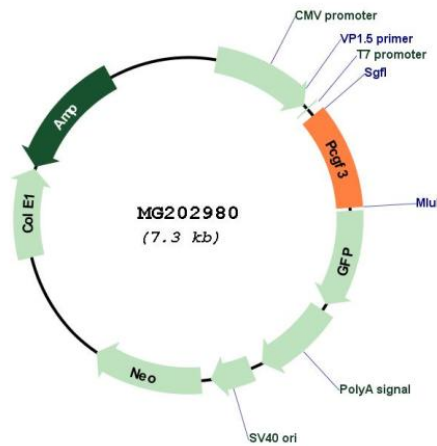
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_172716

ORF Size: 723 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_172716.2 , NP_766304.2
RefSeq Size:	3733 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]