

## Product datasheet for **RG208679**

### PCGF5 (NM\_032373) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCGF5 (NM_032373) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCGF5
Synonyms:	RNF159
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208679 representing NM_032373 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACCCAAAGGAAACACTTGGTGAAAGATTTTAATCCTTACATTACCTGCTATATCTGTAAAGGGT  
ATCTGATCAAGCCAACAACAGTGACGGAATGCCTCCATACATTCTGTAAGACTTGTATTGTTTCAGCACTT  
TGAAGATAGCAATGATTGCCAAGGTGTGGCAACCAAGTTCATGAGACAAATCCATTAGAAATGTTGAGG  
TTGGACAATACATTAGAGGAAATATATTTAAGCTGGTCCCTGGACTACGAGAACAAGAAGCTTGAGCGTG  
AATCTGAATTTTGAAGAAAAAATAGCCTCAAGAAAATGGACAAGATGATACTTCAAAGCTGACAAACC  
GAAAGTAGATGAAGAAGGTGATGAAAATGAAGATGATAAAGATTATCACAGAAGTGACCCACAAATTGCT  
ATCTGTCTAGATTGTTTACGAAATAATGGCAATCAGGGGACAATGTAGTAAAGGGTTTAAATGAAGAAAT  
TCATTGATGTTCTACACGTGTAAGTGTGGAACTATTAATAAATTTCTAAGTTTAAACTAAAACCTTCC  
AAGTTCTATGAGTTGGATGTGCTGTGCAATGGTGAATATGGGGAAGGATCATACTATGGAATTCATC  
TACATGACAAGATGGCGACTAAGAGGCGAAAACCTTCGGTGTCTGAACTGCTCAGCTTCGCAAGTCTGCT  
CTCAGGATGGCCCTTTGTATCAGTCATACCCTATGGTACTGCAGTATCGACCAAGAATTGATTTCCGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208679 representing NM\_032373  
 Red=Cloning site Green=Tags(s)

MATQRKHLVKDFNPYITCYICKGYLIKPTTVTECLHTFCKTCIVQHFEDSNDPCRCGNQVHETNPLEMLR  
 LDNTLEEIIIFKLVPLREQELERESEFWKKNKPQENGQDDTSKADKPKVDEEGDENEDDKDYHRSDPQIA  
 ICLDCLRNNGQSGDNVVKGLMKKFIRCSTRVTVGTIKKFLSLKLLPSSYELDLVLCNGEIMGKDHTMEFI  
 YMTRWRLRGENFRCLNCSASQVCSQDGPLYQSYPMVLQYRPRIDFG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032373

**ORF Size:** 768 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_032373.5](#)

**RefSeq Size:** 7179 bp

**RefSeq ORF:** 771 bp

**Locus ID:** 84333

**UniProt ID:** [Q86SE9](#)

**Cytogenetics:** 10q23.32

**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:26151332). Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity (PubMed:26151332). Plays a redundant role with PCGF3 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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG208679