

Product datasheet for **RC233568**

PCGF5 (NM_001257101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCGF5 (NM_001257101) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCGF5
Synonyms:	RNF159
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233568 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACCCAAAGGAAACACTTGGTGAAGATTTTAATCCTTACATTACCTGCTATATCTGTAAAGGGT
ATCTGATCAAGCCAACAACAGTGACGGAATGCCTCCATACATTCTGTAAGACTTGTATTGTTTCAGCACTT
TGAAGATAGCAATGATTGCCAAGGTGTGGCAACCAAGTTCATGAGACAAATCCATTAGAAATGTTGAGG
TTGGACAATACATTAGAGGAAATATATTTAAGCTGGTCCCTGGACTACGAGAACAAGAAGCTTGAGCGTG
AATCTGAATTTTGAAGAAAAAATAGCCTCAAGAAAATGGACAAGATGATACTTCAAAGCTGACAAACC
GAAAGTAGATGAAGAAGGTGATGAAAATGAAGATGATAAAGATTATCACAGAAGTGACCCACAAATTGCT
ATCTGTCTAGATTGTTTACGAAATAATGGCAATCAGGGGACAATGTAGTAAAGGGTTTAAATGAAGAAAT
TCATTGATGTTCTACACGTGTAAGTGTGGAACTATTAATAAATTTCTAAGTTTAAAACTAAAACCTCC
AAGTTCCTATGAGTTGGATGTGCTGTGCAATGGTGAATATGGGGAAGGATCATACTATGGAAATCATC
TACATGACAAGATGGCGACTAAGAGGCGAAAACCTTCGGTGTCTGAACTGCTCAGCTTCGCAAGTCTGCT
CTCAGGATGGCCCTTTGTATCAGTCATACCCATGGTACTGCAGTATCGACCAAGAATTGATTTTCGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233568 protein sequence
 Red=Cloning site Green=Tags(s)

MATQRKHLVKDFNPYITCYICKGYLIKPTTVTECLHTFCKTCIVQHFEDSNDPCRCGNQVHETNPLEMLR
 LDNTLEEIIIFKLVPLREQELERESEFWKKNKPQENGQDDTSKADKPKVDEEGDENEDDKDYHRSDPQIA
 ICLDCLRNNGQSGDNVVKGLMKKFIIRCSTRVTVTGIKKFLSLKLLKLPSSYELDLVLCNGEIMGKDHTMEFI
 YMTRWRLRGENFRCLNCSASQVCSQDGPLYQSYPMVLQYRPRIDFG

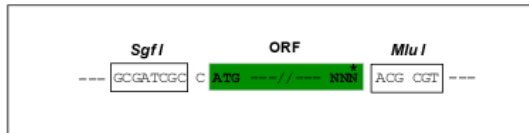
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6361_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001257101

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.

RefSeq: [NM_001257101.1](#), [NP_001244030.1](#)

RefSeq Size: 7057 bp

RefSeq ORF: 771 bp

Locus ID: 84333

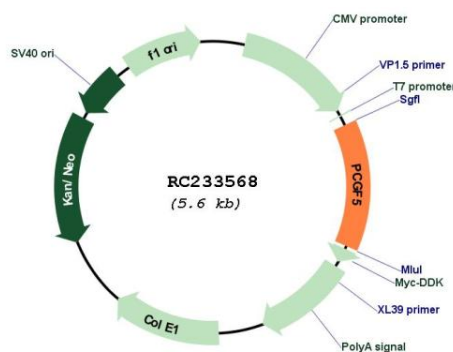
UniProt ID: [Q86SE9](#)

Cytogenetics: 10q23.32

MW: 29.7 kDa

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 RC233568