

Product datasheet for **SC332502**

PCGF5 (NM_001257101) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PCGF5 (NM_001257101) Human Untagged Clone
Tag: Tag Free
Symbol: PCGF5
Synonyms: RNF159
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332502 representing NM_001257101.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTACCCAAAGGAAACACTTGGTGAAGATTTTAATCCTTACATTACCTGCTATATCTGTAAAGGG
TATCTGATCAAGCCAACAACAGTGACGGAATGCCTCCATACATTCTGTAAGACTTGTATTGTTTCAGCAC
TTTGAAGATAGCAATGATTGCCAAGGTGTGGCAACCAAGTTCATGAGACAAATCCATTAGAAATGTTG
AGGTTGGACAATACATTAGAGGAAATTATATTTAAGCTGGTCCCTGGACTACGAGAACAAGAACTTGAG
CGTGAATCTGAATTTTGAAGAAAAATAAGCCTCAAGAAAATGGACAAGATGATACTTCAAAGCTGAC
AAACCGAAAGTAGATGAAGAAGGTGATGAAAATGAAGATGATAAAGATTACACAGAAGTGACCCACAA
ATTGCTATCTGTCTAGATTGTTTACGAAATAATGGGCAATCAGGGGACAATGTAGTAAAGGTTTTAATG
AAGAAATTCATTTCGATGTTCTACACGTGTAAGTGTGGAACTATTAATAAATTTCTAAGTTTAAACTA
AACTTCCAAGTCTTATGAGTTGGATGTGCTGTGCAATGGTGAATTTATGGGGAAGGATCATACTATG
GAATTCATCTACATGACAAGATGGCGACTAAGAGGCGAAAACCTTCGGTGTCTGAACTGCTCAGCTTCG
CAAGTCTGCTCAGGATGGCCCTTTGTATCAGTCATACCCTATGGTACTGCAGTATCGACCAAGAAT
GATTTTCGGTTAG
```

Restriction Sites: SgfI-MluI
ACCN: NM_001257101
Insert Size: 771 bp
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).



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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](#)

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]

Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 all encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.