

Product datasheet for SC105959

PCGF5 (AL832496) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCGF5 (AL832496) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCGF5
Synonyms:	RNF159
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC105959 sequence for AL832496 edited (data generated by NextGen Sequencing)

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ATGGCTACCCAAAGGAAACACTTGGTGAAGATTTTAATCCTTACATTACCTGCTATATC
TGTAAGGGTATCTGATCAAGCCAACAACAGTGACGGAATGCCTCCATACATTCTGTAAG
ACTTGTATTGTTGAGCACTTTGAAGATAGCAATGATTGCCCAAGGTGTGGCAACCAAGTT
CATGAGACAAATCCATTAGAAATGTTGAGGTTGGACAATACATTAGAGGAAATTATATTT
AAGCTGGTCCCTGGACTACGAGAACAAGAAGCTTGGAGCGTGAATCTGAATTTTGAAGAAA
AATAAGCCTCAAGAAAATGGACAAGATGATACTTCAAAGCTGACAAACCGAAAAGTAGAT
GAAGAAGGTGATGAAAATGAAGATGATAAAGATTATCACAGAAGTGACCCACAAATTGCT
ATCTGTCTAGATTGTTTACGAAATAATGGGCAATCAGGGGACAATGTAGTAAAGGGTTTA
ATGAAGAAATTCATTGATGTTCTACACGTGTAAGTGTGGGAATTAATAAAAAATTTCTA
AGTTTAAACTAAACTTCCAAGTTCTTATGAGTTGGATGTGCTGTGCAATGGTGAATTT
ATGGGGAAAGGATCATACTATGGAATTCATCTACATGACAAGATGGCGACTAAGAGGCGAA
AACTTTCCGGTGTCTGAACTGCTCAGCTTCGCAAGTCTGCTCTCAGGATGGCCCTTTGTAT
CAGTCATACCCTATGGTACTGCAGTATCGACCAAGAATTGATTTCCGGTTAG

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Clone variation with respect to AL832496.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for AL832496 unedited
 TTCACATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGCCGGCGCG
 GGCTCCCTCACCTACCGCCCCACGCGCGCGCTCGCGCACCACGCGCCCCGCGCGGCC
 GCCCGGATCGTGGCCTCTCGAGAGCAAGACATGGGAAAGCGGAACCACAAAAGGAGTGA
 TGATCAACGATCTCATGATAAATCTGGATGCTAGTTCTCATGCCTCAGGACATCCTACTG
 GGAACGACACACCAGCTCCTGGGATCAGACTTTCATCTACTTAGGACCCCTCTTTGCCCA
 GACTACTAAAGCCAGTCTTCACTAGCCACGAATGGCTACCCAAAGGAAACACTTGGTGAA
 AGATTTTAACTCCTTACATTACCTGCTATATCTGTAAGGGTATCTGATCAAGCCAACAAC
 AGTGACGGAATGCCTCCATACATTCTGTAAAGACTTGATTGTTTCAGCACTTTGAAGATAG
 CAATGATTGCCCAAGGTGTGGCAACCAAGTTCATGAGACAAATCCATTAGAAATGTTGAG
 GTTGGACAATACATTAGAGGAAATTATATTTAAGCTGGTCCCTGGACTACGAGAACAAGA
 ACTTGAGCGTGAATCTGAATTTTGAAGAAAAATAAGCCTCAAGAAAATGGACAAGATGA
 TACTTCAAAGCTGACAAACCGAAAGTAGATGAAGAAGGTGATGAAAATGAAGATGATAA
 AGATTATCACAGAAGTGACCCACAAATTGCTATCTGTCTAGATTGTTACGAAAATATGGG
 CAATCAGGNNGACACTGTAGTAAAGGTTAATGAAGAAATCATTGATGTTCTACACGTG
 TAACTGTGGGAACATAAAAAATNCTAGTTTAACTAAAACCTCCAAGTCTATGAGTTG
 GAGTGCTGTGCATGGTGAATATGGGGAGGATCTACTATGGATCACTACTGACAGATGC

3' Read Nucleotide Sequence:

>OriGene 3' read for AL832496 unedited
 NNNTTCGTATACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTT
 TTTTTGGAAGTAAAGGTCTTTCAGTTTATTGCTTAAGAAACAACAGATTAAGAAAACCTT
 TTAGTTTTAGTCTCTGATGTTACAGATTCAGATGATTCTATAGGTTATTTAAAGAATTC
 ATTTTATCATTTTATAAGCACCTAAATTTATAAAGCTAACCCACAAAAGTTGCCTGTACA
 TTTTTCTATACCTAGTTTCTTGCAAATCTACAATCTGACTTAAGGGATAATTACGGG
 GAATACAGTGTATTACTAGACATGAAAGTAGTCCTATCCTTAGAAAGCTGTAGTTGAATA
 TACCAAAATAAGTCAGTTGAAGAAATCTGTGATTCTAGTAGTAATACCATACACTTAGG
 ACCATCAAAAAATGTGTACCTTTCTCCAAACGACAACACTGATGCCTTTCTTTATGTAAGC
 TTTTCACGTGTTTTGGCAGATATCCATTGCATTTCAATAAAAAATGTTAATGCATTATCA
 GTAAATAAAGAATTCTATATAAACTATTCTCAGTTTCATAATTGCTTCCTATATATTT
 CCTTGGAAAATAGTGAATTTACATATGACAAGGCAACCAGCCAAATTTAAAGAGATTTTG
 TAGATAAAATTCATTTATGACCATTAAGTTTTGGCTGGGGGCCAAAACATCAAAGTCTC
 ACTTGTGATTTTTAAAATGCACTCTTAATTCATTTTGAATTAATTAATAATTCATTTGCA
 AAACACTATTTTAAATCGCTGACCTTAGTGTGACCAATTTATTATAATTTGTNAAAGTTCT
 TAGGGATGTCTGGGGACAGTTTCCACCATAGAAAAAAATTTCTGG

Restriction Sites:

NotI-NotI

ACCN:

AL832496

Insert Size:

3800 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).

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: [AL832496.1](#), [CAD91165.1](#)

RefSeq Size: 3718 bp

RefSeq ORF: 3718 bp

Locus ID: 84333

Cytogenetics: 10q23.32

Domains: RING

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]