

## Product datasheet for **RC216322**

### PCGF1 (NM\_032673) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCGF1 (NM_032673) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCGF1
Synonyms:	2010002K04Rik; NSPC1; RNF3A-2; RNF68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216322 representing NM_032673 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
GCC

ATGGCGTCTCCTCAGGGGGCCAGATTGCGATCGCGATGAGGCTTCGGAACCAGCTCCAGTCAGTGTACA  
AGATGGACCCGCTACGGAACGAGGAGGTTTCGAGTGAAGATCAAAGACTTGAATGAACACATTGTTT  
CTGCCTATGCGCCGGCTACTTCGTGGATGCCACCACCATCACAGAGTGTCTTCACTTTCTGCAAGAGT  
TGTATTGTGAAGTACCTCAAACCTAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGC  
CACTGCTCAACCTCAAACCTGGACCGGTCATGCAGGACATCGTGTATAAGCTGGTGCCTGGCTTGAAGA  
CAGTGAAGAGAAACGGATTTCGGGAATTCACCAGTCCCGAGGTTTGGACCGGGTCAACCCAGCCCACTGGG  
GAAGAGCCAGCACTGAGCAACCTCGGCCTCCCCTTCAGCAGCTTTGACCACTCTAAAGCCCACTACTATC  
GCTATGATGAGCAGTTGAACCTGTGCCTGGAGCGGCTGAGTTCTGGCAAAGACAAGAATAAAGCGTCTCT  
GCAGAACAAGTATGTCGATGTTCTGTTAGAGCTGAGGTACGCCATCTCCGGAGGGTCTGTGTACCCGC  
TTGATGCTAAACCCTCAGCATGTGCAGCTCCTTTTGAACAATGAAGTTCTCCCTGATCACATGACAATGA  
AGCAGATATGGCTCTCCCGCTGGTTCGGAAGCCATCCCCTTTGCTTTTACAATACAGTGTGAAAGAGAA  
GAGGAGG

ACGCGTACGCGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC216322 representing NM\_032673  
 Red=Cloning site Green=Tags(s)

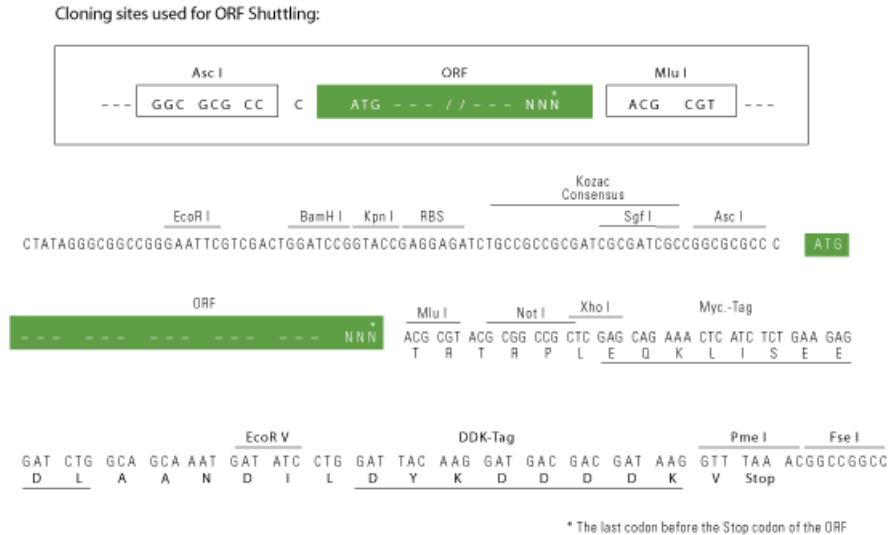
MASPQGGQIAIAMRLRNQLQSVYKMDPLRNEEEVVKIKDLNEHIVCCLCAGYFVDATTITECLHTFCKS  
 CIVKYLQTSKYCPMCNIKIHTQPLLNLKLDKRVMDIVYKLVPLGLQDSEEKRIREFYQSRGLDRVTQPTG  
 EEPALSNLGLPFSFDHSHKAHYRYDEQLNLCLERLSSGKDKNKSVLQNKYVRCSVRAEVRHLRRVLCR  
 LMLNPQHVQLLFDNEVLPDHMTMKQIWL SRWFGKPSPLLLQYSVKEKRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8017\\_c11.zip](https://cdn.origene.com/chromatograms/mk8017_c11.zip)

**Restriction Sites:** AscI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032673

**ORF Size:** 777 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\\_032673.3](#)

**RefSeq Size:** 939 bp

**RefSeq ORF:** 780 bp

**Locus ID:** 84759

**UniProt ID:** [Q9BSM1](#)

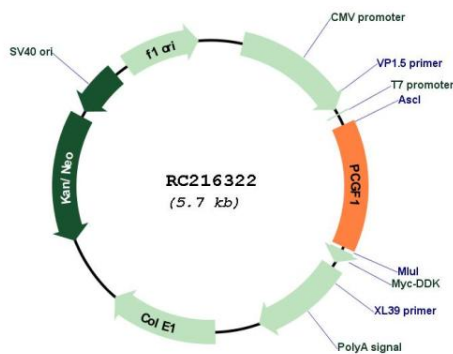
**Cytogenetics:** 2p13.1

**Domains:** RING

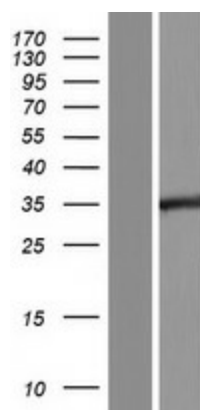
**MW:** 30.2 kDa

**Gene Summary:** PCGF1 is a mammalian homolog of the Drosophila polycomb group genes, which act as transcriptional repressors to regulate anterior-posterior patterning in early embryonic development (Nunes et al., 2001 [PubMed 11287196]). See also PCGF2 (MIM 600346). [supplied by OMIM, Aug 2008]

**Product images:**



Circular map for RC216322



Western blot validation of overexpression lysate (Cat# [LY409978]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216322 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).