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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:

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>RC216322 representing NM_032673
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCCC

ATGGCGTCTCCTCAGGGGGGCCAGATTGCGATCGCGATGAGGCTTCGGAACCAGCTCCAGTCAGTGTACA
AGATGGACCCGCTACGGAACGAGGAGGAGGTTCGAGTGAAGATCAAAGACTTGAATGAACACATTGTTTG
CTGCCTATGCGCCGGCTACTTCGTGGATGCCACCACCATCACAGAGTGTCTTCATACTTTCTGCAAGAGT
TGTATTGTGAAGTACCTCCAAACTAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGC
CACTGCTCAACCTCAAACTGGACCGGGTCATGCAGGACATCGTGTATAAGCTGGTGCCTGGCTTGCAAGA
CAGTGAAGAGAAACGGATTCGGGAATTCTACCAGTCCCGAGGTTTGGACCGGGTCACCCAGCCCACTGGG
GAAGAGCCAGCACTGAGCAACCTCGGCCTCCCCTTCAGCAGCTTTGACCACTCTAAAGCCCACTACTATC
GCTATGATGAGCAGTTGAACCTGTGCCTGGAGCGGCTGAGTTCTGGCAAAGACAAGAATAAAAGCGTCCT
GCAGAACAAGTATGTCCGATGTTCTGTTAGAGCTGAGGTACGCCATCTCCGGAGGGTCCTGTGTCACCGC
TTGATGCTAAACCCTCAGCATGTGCAGCTCCTTTTTGACAATGAAGTTCTCCCTGATCACATGACAATGA
AGCAGATATGGCTCTCCCGCTGGTTCGGCAAGCCATCCCCTTTGCTTTTACAATACAGTGTGAAAGAGAA
GAGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC216322 representing NM_032673
Red=Cloning site Green=Tags(s)

MASPQGGQIAIAMRLRNQLQSVYKMDPLRNEEEVRVKIKDLNEHIVCCLCAGYFVDATTITECLHTFCKS
CIVKYLQTSKYCPMCNIKIHETQPLLNLKLDRVMQDIVYKLVPGLQDSEEKRIREFYQSRGLDRVTQPTG
EEPALSNLGLPFSSFDHSKAHYYRYDEQLNLCLERLSSGKDKNKSVLQNKYVRCSVRAEVRHLRRVLCHR
LMLNPQHVQLLFDNEVLPDHMTMKQIWLSRWFGKPSPLLLQYSVKEKRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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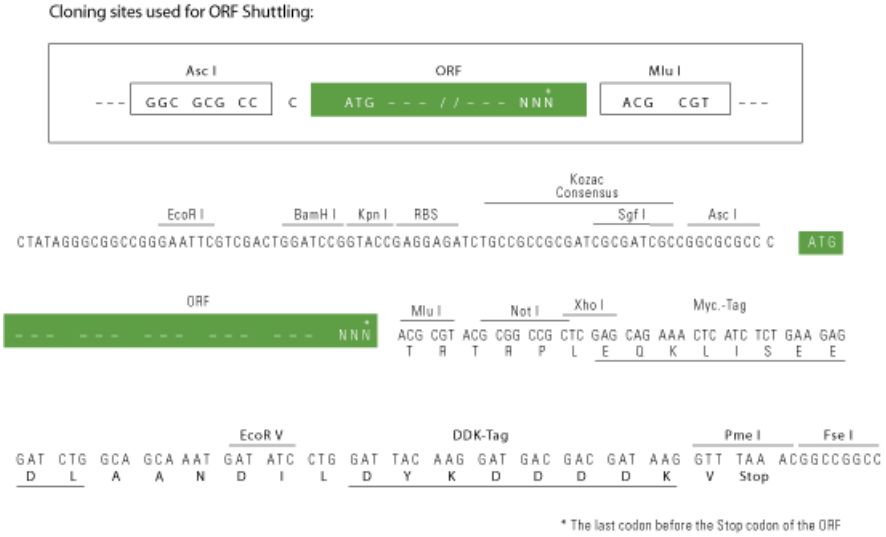
Chromatograms: https://cdn.origene.com/chromatograms/mk8017_c11.zip

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).

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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.

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

RefSeq: NM_032673.3

RefSeq Size: 939 bp

RefSeq ORF: 780 bp

Locus ID: 84759

UniProt ID: Q9BSM1

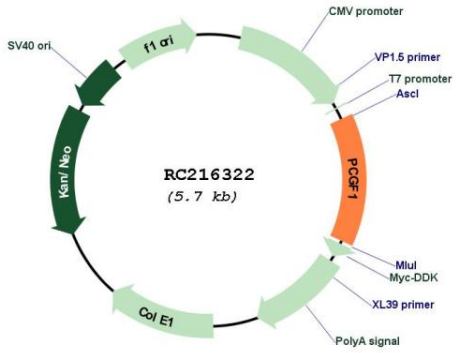
Cytogenetics: 2p13.1

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

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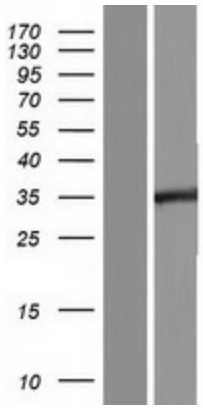

Western blot validation of overexpression lysate (Cat# [LY409978]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216322 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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