

Product datasheet for MR205368

Pcgf6 (NM_027654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcgf6 (NM_027654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcgf6
Synonyms:	4933407A11Rik; AI604840; MBLR; Rnf134
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205368 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGACGAGGCTGAGACGGACGCCACGAAAACAAGCGCGCCTCTGAGGCCAAGCGAGCCTCAGCCATGC
CGCCACC GCCACC GCCTCCGCTCCCATCTCTCCGCCCGCCCTCATCCCGCACCCGCGGCCGCGAGGA
GGCCCGCGTCCCTGGCCAGGCGGGCGCTGCCGGTCTCGCTCTCGGCCCGCGGTTGGAGCCC
GAGCGCAGCCTGGCCGCTTGAGAGGCCGCTTCGAGGACTACGATGAAGAGTTGGAAGAGGAGGAGGAGA
TGGAGGAGGAAGAAGAGGAGGAGGAAGAGATGAGCCACTTCTCTCGCTCTGGAGTCCGGACGGGCAGA
CTCCGAGGACGAGGAGGAGCGCCTGATAAACCTTGTGCGAGCTGACCCCTACATCCTGTGTTGATTG
AAAGTTACCTGATAGATGCAACCACATTACAGAGTGTCTTACCTTTTGTAAAAGTGCATTGTGA
GACATTTTACTATAGTAACAGATGCCAAAATGCAACATAGTTGTCCACCAGACTCAGCCTCTTTATAA
TATAAGTTGGACCGGCAGTTACAAGACATAGTATACAAATTAGTGATCAATCTAGAGGAAAAGAAAAA
AAGCAATGCATGACTTCTATAAAGAAAGAGGTCTAGAAGTCCCCAAGCCTGCTGCTCCACAGCCAGTCC
CTTCAAGCAAAGGAAAAACCAAGAAGTCTAGAGTCAGTGTTCGTATTCCACCTGAAC TTGATATGC
TTTATTACTTGAGTTCATTGGTGCTAATGAAGACACCGGACATTTAAGCCATTGGAAAAGAAGTTTGTG
CGTGTTCAGGAGAAGCAACTATCGGGCATGTAGAAAAATTTCTAGAAGAAAAATGGGTCTTGATCCAG
CTTGTCAGGTAGATATCATCTGTGGGATCACTTACTGGAGCGGTACCAAACCTCTACGGGAAATCCGACG
TGCAATAGGTGATACAGCAATGCAGGACGGTCTGCTTGTCTTTCATTATGGTCTTGTTTCTCCTTTG
AAATAACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205368 protein sequence
Red=Cloning site Green=Tags(s)

MDEAETDATENKRASEAKRASAMPPPPPPPPISPPALIPAPAAGEEGPASLGQAGAAGCSRSRPPALEP
 ERS LGRLGRFEDYDEELEEEEEEMEEEEEMSHFSLRLESGRADEDEEERLINLVELTPYILCSIC
 KGYLIDATTITECLHTFCKSCIVRHFYYSNRCPKCNIIVHQTQPLYNIRLDRQLQDIVYKLVINLEEREK
 KQMHDFYKERGLEVPKPAAPQVPVSSKGGTKKVLSEVFRIPPELDMSSLLEFIGANEDTGHFKPLEKKFV
 RVSGEATIGHVEKFLRRKMGLDPACQVDIICGDHLLERYQTLREIRRAIGDTAMQDGLLVLHYGLVVSPL
 KIT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027654

ORF Size: 1062 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_027654.3](#)

RefSeq Size: 2126 bp

RefSeq ORF: 1062 bp

Locus ID: 71041

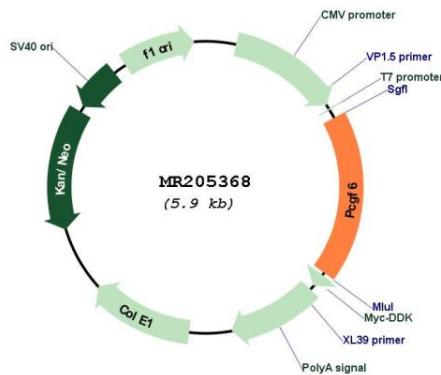
UniProt ID: [Q99NA9](#)

Cytogenetics: 19 C3

MW: 39.8 kDa

Gene Summary: Transcriptional repressor. May modulate the levels of histone H3K4Me3 by activating KDM5D histone demethylase. 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. Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205368