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Product datasheet for MR224590

Pcgf5 (NM_029508) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcgf5 (NM_029508) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcgf5
Synonyms:	0610009F02Rik; 1110054A01Rik; 5830406C17Rik; 5830443C21Rik; 9530023M17Rik; AI324127
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR224590 representing NM_029508
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTACCCAAAGGAAACACTTGGTGAAAGACTTCAACCCTTACATCACCTGCTACATCTGTAAAGGCT
ATCTGATCAAGCCCACGACAGTGACGGAATGCCTCCATACATTCTGTAAGACCTGTATTGTCCAGCACTT
TGAAGACAGCAATGATTGTCCAAGGTGTGGCAACCAAGTTCATGAAACAAATCCATTAGAAATGTTAAGG
CTGGATAACACGTTGGAGGAAATTATCTTTAAATTAGTGCCTGGACTACGAGAACAAGAACTTCAGCGTG
AGTTGGAATTTTGGAAGAAAAACAAACCTCAAGAAAATGGGCAAGATGATATTTCGAAGGTTGACAAGTC
TAAAGCAGATGAGGAAGGTGATGAAAACCAAGATGATAAGGACTATCATAGAAGTGACCCGCAAATTGCT
ATCTGTCTGGACTGTTTACGAAATAATGGGCAGTCAGGGGACAACGTAGTGAAGGGTCTCATGAAGAAAT
TTATTCGCTGTTCTACACGAGTTACTGTAGGAACTATTAAAAAGTTTCTAAGTTTAAAACTAAAACTTCC
AAGTTCTTATGAGTTGGATGTGCTGTGCAATGGTGAAATTATGGGAAAGGATCATACTATGGAATTCATC
TATATGACAAGATGGCGACTAAGAGGAGAAAATTCATACCCGATGGTATTGCAGTATCGACCGAGAATTG
ATTTTGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR224590 representing NM_029508
Red=Cloning site Green=Tags(s)

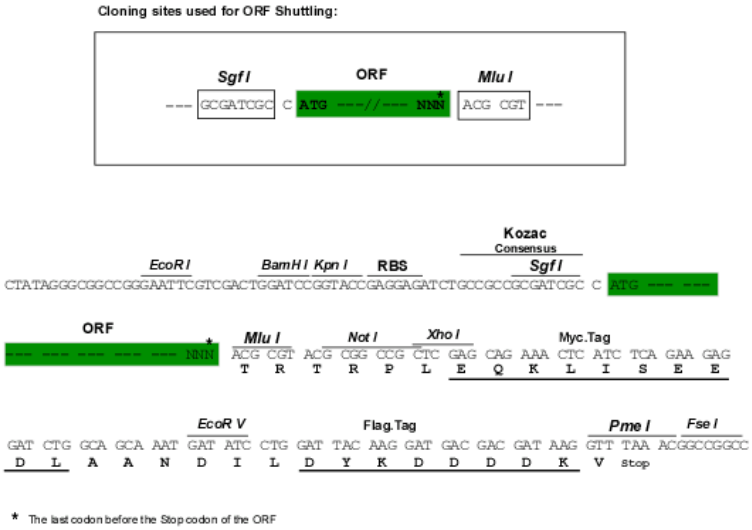
MATQRKHLVKDFNPYITCYICKGYLIKPTTVTECLHTFCKTCIVQHFEDSNDCPRCGNQVHETNPLEMLR
LDNTLEEIIFKLVPGLREQELQRELEFWKKNKPQENGQDDISKVDKSKADEEGDENQDDKDYHRSDPQIA
ICLDCLRNNGQSGDNVVKGLMKKFIRCSTRVTVGTIKKFLSLKLKLPSSYELDVLCNGEIMGKDHTMEFI
YMTRWRLRGENSYPMVLQYRPRIDFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9044_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029508

ORF Size: 708 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

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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_029508.4
RefSeq Size:	1509 bp
RefSeq ORF:	711 bp
Locus ID:	76073
UniProt ID:	Q3UK78
Cytogenetics:	19 C2
MW:	28 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:27136092, PubMed:28596365). Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity (By similarity). 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 (PubMed:28596365).[UniProtKB/Swiss-Prot Function]

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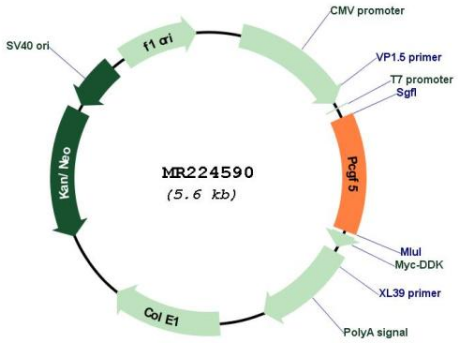
Product images:



Circular map for MR224590

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