

Product datasheet for **MG215739**

Pcgf2 (NM_009545) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pcgf2 (NM_009545) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pcgf2
Synonyms: mel-18; Mel18; Rnf110; Zfp144
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215739 representing NM_009545
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCGGACCACGGATTAATAACACGGAGCTGAACCCTCACCTCATGTGTGCCCTCTGTGGGGGCT
 ATTTTATTGATGCCACCACCATTGTGGAATGCTTACATTCCTTCTGCAAAACCTGCATCGTACGCTACTT
 GGAGACCAACAAATACTGCCCATGTGTGACGTCCAGGTCCATAAACTCGACCACTGCTGAGCATCAGA
 TCAGACAAAACCTCCAGGACATTGTCTACAAGTTGGTGCCTGGGCTTTTAAAGATGAAATGAAACGGC
 GACGGGACTTCTATGCAGCATACCCCTGACAGAGGTCCCAACGGCTCCAACGAGGACCGAGGCGAGGT
 CCTGGAACAGGAGAAGGGGGCTCTGGGTGACGACGAGATTGTCACTTTCCATTGAGTTCTACGAAGGC
 GTCAGGGACCGAGAGGAGAAGAAGAACCTCACGGAGAATGGAGATGGGGACAAGGAGAAGACAGGAGTGC
 GATTCCTGCGGTGCCAGCAGCCATGACCGTCATGCACCTGGCAAAGTTCCTCCGCAACAAAATGGATGT
 GCCCAGCAAGTACAAGGTGGAGATCCTCTATGAAGATGAGCCCTGAAGGAATACTACACCTTAATGGAC
 ATTGCGTACATCTACCCCTGGCGAAGGAATGGGCTCTCCCCCTCAAGTACCGTGTCCAGCCAGCCTGCA
 AGCGGCTCACCTGCCCACGGTGCCAACCCCTCAGAAGGCACCAACACCAGCGGGGCATCAGAGTGTGA
 GTCAGTCAGCGACAAGGCTCCCAGCCCTGCCACCCTCCGGCCACCTCCTCCTTGCCAGCCCTGCC
 ACCCCATCCCATGGCTCTCCCAGCTCCCAGGCCCCAGTACCCATCCTACTTCCCCACTCCACCT
 CAACTGCCGCTGGGACCACACAGCTACCAATGGGGCACTTCAACTGCCTGCAAACGCCATCCTCCAC
 CAGCAGGGGGCGCAAGATGACTGTTAATGGCGCTCCTTGCCCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215739 representing NM_009545
 Red=Cloning site Green=Tags(s)

MHRTRRIKITELNPHLMCALCGGYFIDATTIVECLHSFCKTCIVRYLETNKYCPMCDVQVHKTRPLL SIR
 SDKTLQDIVYKLVPLFKDEMRRRDFYAAAYPLTEVPNGSNEDRGEVLEQEKALGDDEIVSLSIEFYEG
 VRDREEKKNLTENGDDKEKTGVRFLRCPAAMTVMHLAKFLRNKMDVPSKYKVEILYEDEPLKEYYTLMD
 IAYIYPWRRNGPLPLKYRVQPACKRLTLPTVPTPSEGTNTSGASECESVSDKAPSPATLPATSSSLPSPA
 TPSHGSPSSHGPPATHPTSPTPPSTAAGTTATNGGTSNCLQTPSSTSRRGRKMTVNGAPCPP

TRTRPLE - GFP Tag - V

Restriction Sites:

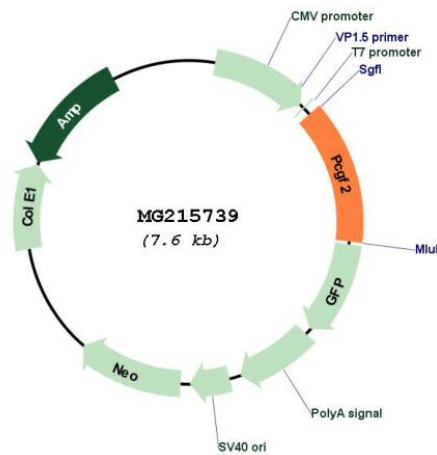
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_009545

ORF Size: 1026 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:	<ol style="list-style-type: none">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_009545.2 , NP_033571.1
RefSeq Size:	2752 bp
RefSeq ORF:	1029 bp
Locus ID:	22658
UniProt ID:	P23798
Cytogenetics:	11 61.06 cM
Gene Summary:	Transcriptional repressor (PubMed:8521824). Binds specifically to the DNA sequence 5'-GACTNGACT-3' (PubMed:8521824). Has tumor suppressor activity (PubMed:8521824). May play a role in control of cell proliferation and/or neural cell development (Probable). Regulates proliferation of early T progenitor cells by maintaining expression of HES1(PubMed:15728456). Also plays a role in antero-posterior specification of the axial skeleton and negative regulation of the self-renewal activity of hematopoietic stem cells (PubMed:8625838, PubMed:15183898). 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 (By similarity).[UniProtKB/Swiss-Prot Function]