

Product datasheet for **RG202490**

Mel18 (PCGF2) (NM_007144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mel18 (PCGF2) (NM_007144) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCGF2
Synonyms:	MEL-18; RNF110; TPFS; ZNF144
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202490 representing NM_007144 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCGGACTACACGGATCAAATCACAGAGCTGAACCCACCTCATGTGTGCCCTCTGCGGGGGT
ACTTCATCGACGCCACCACTATCGTGGAGTGCCTGCATTCCTTCTGCAAAACCTGCATCGTGCCTACCT
GGAGACCAACAAATACTGCCCATGTGTGACGTGCAGTCCATAAAACCCGGCCGCTGCTGAGCATCAGG
TCTGACAAAACACTTCAAGACATTGTCTACAAATTGGTCCCTGGGCTTTTTAAAGATGAGATGAAACGGC
GGCGGGATTTCTATGCAGCGTACCCCTGACGGAGGTCCCAACGGCTCCAATGAGGACCGCGCGAGGT
CTTGAGCAGGAGAAGGGGGCTCTGAGTGATGATGAGATTGTGAGCCTCTCCATCGAATTCTACGAAGGT
GCCAGGGACCGGACGAGAAGAAGGGCCCTGGAGAATGGGGATGGGGACAAAGAGAAAACAGGGGTGC
GCTTCTCGCATGCCAGCAGCCATGACCGTCATGCATCTTGCCAAGTTTCTCCGCAACAAGATGGATGT
GCCCAGCAAGTACAAGGTGGAGTTCTGTACGAGGACGAGCCACTGAAGGAATACTACACCTCATGGAC
ATCGCCTACATCTACCCCTGGCGGCGGAACGGGCTCTCCCCCTCAAGTACCGTGTCCAGCCAGCCTGCA
AGCGGCTACCCTAGCCACGGTGCCACCCCTCCGAGGGCACCAACACCAGCGGGGCGTCCGAGTGTGA
GTCAGTCAGCGACAAGGCTCCCAGCCCTGCCACCCTGCCAGCCACCTCCTCCTCCCTGCCAGCCAGCC
ACCCCATCCCATGGCTCTCCCAGTCCCATGGGCTCCAGCCACCACCTACCTCCCCACTCCCCCTT
CGACAGCCAGTGGGGCCACCACAGCTGCCAACGGGGTAGCTTGAACCTGCCTGCAGACACCATCCTCCAC
CAGCAGGGGGCGCAAGATGACTGTCAACGGCGCTCCCGTCCCCCCTTAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202490 representing NM_007144
Red=Cloning site Green=Tags(s)

MHRTRRIKITELNPHLMCALCGGYFIDATTIVECLHSFCKTCIVRYLETNKYCPMCDVQVHKTRPLL SIR
 SDKTLQDIVYKLVPLFKDEMRRRDFYAAAYPLTEVPNGSNEDRGEVLEQEKALSDDEIVLSIEFYEG
 ARDRDEKKGLENGDGKEKTGVRFLRCPAAMTMHLAKFLRNKMDVPSKYKVEVLYEDEPLKEYYTLMD
 IAYIYPWRRNGPLPLKYRVQPACKRLTLATVPTPSEGTNTSGASECESVSDKAPSPATLPATSSSLPSPA
 TPSHGSPSSHGPPATHPTSPPTPPSTASGATTAANGGSLNCLQTPSSTSRRGRKMTVNGAPVPLT

TRTRPLE - GFP Tag - V

Restriction Sites:

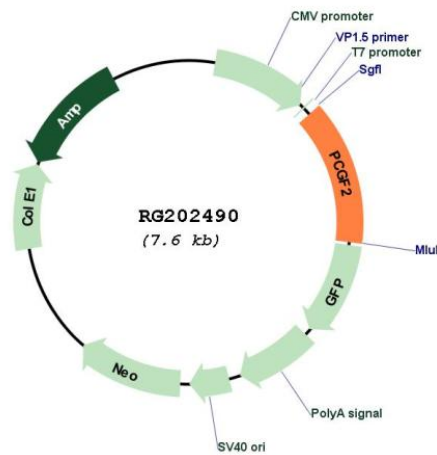
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_007144

ORF Size: 1032 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_007144.3
RefSeq Size:	2622 bp
RefSeq ORF:	1035 bp
Locus ID:	7703
UniProt ID:	P35227
Cytogenetics:	17q12
Domains:	RING
Protein Families:	Transcription Factors
Gene Summary:	The protein encoded by this gene contains a RING finger motif and is similar to the polycomb group (PcG) gene products. PcG gene products form complexes via protein-protein interaction and maintain the transcription repression of genes involved in embryogenesis, cell cycles, and tumorigenesis. This protein was shown to act as a negative regulator of transcription and has tumor suppressor activity. The expression of this gene was detected in various tumor cells, but is limited in neural organs in normal tissues. Knockout studies in mice suggested that this protein may negatively regulate the expression of different cytokines, chemokines, and chemokine receptors, and thus plays an important role in lymphocyte differentiation and migration, as well as in immune responses. [provided by RefSeq, Jul 2008]