

Product datasheet for **MG210164**

Pcif1 (NM_146129) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcif1 (NM_146129) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcif1
Synonyms:	2310022K11Rik; C20orf67; F730014I05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210164 representing NM_146129
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAATGAGAATCACGGCAGCCCCGGGAAGGAGCCTCCCTTCTAAGTCACTCTCCAGGCACCTCCA
GTCAGAGCCAGCCCTGTTCTCCAAGCCAGTTCGCCTGGTACAGGACCTTCCAGAGGAGCTGGTACATGC
AGGCTGGGAGAAGTGCTGGAGCCGGAGGAGAGCCGTCCTACTACTTCAACCGATTACCAACCCAGTCT
CTGTGGGAGATGCCCGTCTGGGTGAGCAGCAGCTGCTTTCGGACCCCTCTGGGGTGAATGCAACCCAC
TGCCCCAAGACTCAAGCTTGGTGGAAACGCCCCAGTAGAGAACAAGTCCAGAAAGCGACAGCTCTCAGA
GGAGCAGCAAGTGGAACGGAGTGAAGAAGCCCAAGATTGAAATCCCTGTGACACCCACAAGCCAGTCA
GTGCCAGTTCCTTAGCATCCCAGGAACCCCAACTGAAGATTGGGGTTCATCCACTGAAGATAAAC
AGGCAGCTCTCCTCCGACCCACTGAGGTGACTGGACCTGGACATCCAGACCAATGCTGTCATCAAGCA
CAGGGGTCTTCAGAGGTCTGCCTCCACCCCTGATGTTGAGTTGCTCCGCTCGCAGCTCATCTTGAAG
CTCCGCCAGCACTACCGGAACTGTGCCAGCAGCGGGAGGGCATTGAGCCGCCCGGGAATCTTTCAACC
GCTGGATGCTGGAGCGCAAAGTGGTGGCAAAGGATGTGATCCTCTGTTGCCAAGCAACTGTGAACCACT
TGTGTCTCCATCCATGTTTCGTGAAATTATGAATGACATTCCTCAGGTTATCCCGAATCAAGTCCCGG
GAGGAAGCCAAACGCCTGCTCTTTAAATACGCAGAAGCTGCCAGGCGGCTCATTGAGTCCAGGAGTGCAT
CCCCTGACAGCAGAAAAGTGGTCAAATGGAACGTGGAGGACACCTTCAGCTGGTGCAGGAAAGAGCACTC
GGCCTCCAAGGAGGATTACATGGACCGCTGGAGCACCTTCGGAGGCAGTGTGGGCCCATGTCTCTGCT
GCAGCCAAAGACTCTGTGAAGGCATCTGCAGCAAGATCTACCACATCTCCCTGGAATATGTTAAACGGA
TCCGAGAAAAGCACCTTGCTGTCTCAAGGAAAACAACATCCCAGAGGAAGTGGAGCCCTCAGAGTTGGA
GCCCCGCTGGTGTACTGCTACCCAGTGCCTGGCCGTGTCGGCACCCCCATGCCTAGTGTGGAGATG
CACGTGGAGAACAGTGTGGTCTGCATCCCTATAAGGGGGAGATGGTCAAGGTCAGCCGAGCTACTTCA
GCAAACCTGAGCTCCTCTACCGCTATAGCTGTGTGGATGACTCTGCCTTTGAGAGGTTCTGCCTCGAGT
CTGGTGTCTTCTCCGCCGATATCAGATGATGTTTGGCGTGGCCTCTATGAGGGGACTGGCTGCAGGGG
TCACTGCCAGTGCATGTCTTTGAGACCTCCACCGACTCTTGGTGTGAGTTTCGAGTGTCTGCCTCCC
CCCTCAACTGCTACTTCCGCCAGTACTGTTCTGCCTTCCCTGACACAGATGGCTACTTTGGCTCCCGAGG
GCCCTGCCTGGACTTACCCCGCTGAGTGGTTCCTTTGAGGCCAACCTCCGTTCTGCGAGGAGCTCATG
GATGCTATGGTCTCTCACTTCGAGAACTGCTGGAGAGCTCAGCAGAACCCTGTCTTTCATCGTGTTC
TCCCGGAGTGGCGGGAGCCCCACACCAGCGCTCACCAGGATGGAGCAGAGCCGTTCAAACGCCACCA
GCTGGTCTTGCTGCCTTTGAGCAGAGTACCGCAGTGGCTCCCAGCACATCTGCAAGAAGGAGGAAATG
CACTACAAGGCCGTCCACAACACGGCAGTGTCTTCTGCAGAATGGCCCCGGGTTTCGCAAAGTGGGGGC
CGACGCCAGAGCGGCTGCAGGAGCTCACCGCTGCCTATAAGCAGTCGGGCCGAGCCATGGCTCCAGCTC
TTCTTCTCCTCTTCTCCTCCTCCGAGGCCAAGGACCGGGACTCAGGCCGGGAACAGGGCCCTAGT
AGAGAGCTCACCCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210164 representing NM_146129
 Red=Cloning site Green=Tags(s)

MANENHGSPREGASLLSHSPGTSSSQPCSPKPVRLVQDLPEEL VHAGWEKCWSRRESRPYYFNRF TNQS
 LWEMPVLGQHDVLS DPLGLNATPLPQDSSLVETPPVENKSRKRQLSEEQPSGNGVKKPKIEIPVTPTSQS
 VPSSPSIPGTPTLKIWGSSTEDKQAALLRPTEVYWDLDIQTNVAVIKHRGPSEVLPPHPDVELLRSQILK
 LRQHYREL CQOREGIEPPRESFNRWMLERKVVDKGC DPLLPSNCEPVVSPSMFREIMNDIPIRLSRIKFR
 EEAKRLLFKYAE AARRLIESRSASPDSRKVVKNVVEDTF SWLRKEHSASKEDYMDRLEHLRRQCGPHVSA
 AAKDSVEGICSKYIYHISLEYVKRIREKHLAVLKENNIPEEVEASELEPRLVYCYPVRLAVSAPPMPVEM
 HVENSVCIRYKEMVKVRSYF SKLWLLYRYSVDDSAFERFLPRVWCLLRRYQMMFGVGLYEGTGLQG
 SLPVHVFE TLHRLFGVSFE CFASPLNCYFRQYCSAFPDTDGYFGSRGPCLDFTPLSGSFEANPPFCEELM
 DAMVSHFEKLL ESSAEPLSFIVF IPEWREPPTPALTRMEQSRFKRHQLVLP AFEHEYRSGSHICKKEEM
 HYKAVHNTAVLFLQNGPGFAKWGPTPERLQELT AAYKQSGRSHGSSSSSSSSSSSSSEAKDRDSGREQGPS
 REPHPT

TRTRPLE - GFP Tag - V

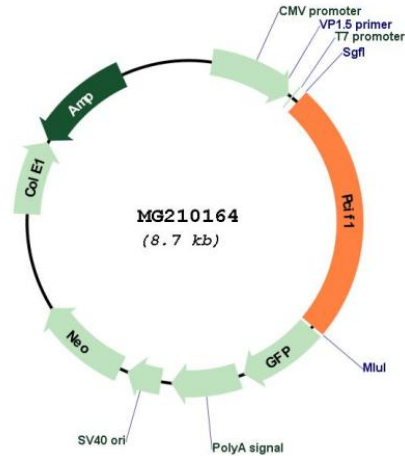
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_146129

ORF Size: 2118 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_146129.3](#)

RefSeq Size: 2753 bp

RefSeq ORF: 2121 bp

Locus ID: 228866

UniProt ID: [P59114](#)

Cytogenetics: 2 H3

Gene Summary: Cap-specific adenosine methyltransferase that catalyzes formation of N(6),2'-O-dimethyladenosine cap (m6A(m)) by methylating the adenosine at the second transcribed position of capped mRNAs. Recruited to the early elongation complex of RNA polymerase II (RNAPII) via interaction with POLR2A and mediates formation of m6A(m) co-transcriptionally. N6-methylation of m6A(m) promotes the translation of capped mRNAs.[UniProtKB/Swiss-Prot Function]