

Product datasheet for **RG203430**

PCIF1 (NM_022104) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCIF1 (NM_022104) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCIF1
Synonyms:	C20orf67; CAPAM; hCAPAM; hPCIF1; PPP1R121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG203430 representing NM_022104
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCAATGAGAATCACGGCAGCCCCGGGAGGAAGCGTCCCTGCTGAGTCACTCCCCAGGTACCTCCA
 ATCAGAGCCAGCCCTGTTCTCCAAAGCCAATCCGCCTGGTTCAGGACCTCCAGAGGAGCTGGTGCATGC
 AGGCTGGGAGAAGTGCTGGAGCCGAGGAGGAATCGTCCCTACTACTTCAACCGATTACCAACCAAGTCC
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 AGTCGTGTACCTTCCATGTTTCGTGAAATCATGAACGACATTCTATCAGGTTATCCCGAATCAAGTTC
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 CGCCGACGCCTGAACGGCTGCAGGAGCTGAGTGTGCTACCGGCAGTCAGGCCGAGCCACAGCTCTGG
 TTCTTCTCATCGTCTCTCTCGGAGGCCAAGGACCGGGACTCGGGCCGTGAGCAGGGTCTAGCCGCGAG
 CCTACCCCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203430 representing NM_022104
 Red=Cloning site Green=Tags(s)

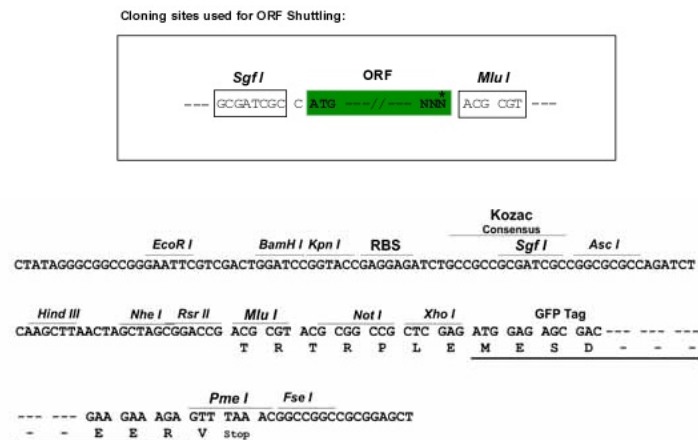
MANENHGSPREEASLLSHSPGTSNQSPCSPKPIRLVQDLPEELVHAGWEKCWSRRENRPYYFNRFNQSLWEMPVLGQHDVISDPLGLNATPLPDSSLVETPPAENKPRKRQLSEEQPSGNGVKKPKIEIPVTPTGQSVPSIPGTPTLKMWGTSPEDKQQAALLRPTEVYWDLDIQTNAVIKHRGPSEVLPPHPEVELLSQLILKLRQHYRELQQREGIEPPRESFNRWMLERKVVVDKGSDDLPSNCEPVVSPSMFREIMNDIPIRLSRIKFREEAKRLLFKYAEAAARLIESRSASPSDRKVVKNVEDTFSWLRKDHSAKEDYMDRLEHLRRQCGPHVSAKDSVEGICSKYHISLEYVKRIREKHLAILKENNISEEVEAPEVEPRLVYCYPVRLAVSAPPMPVSVMHMENNVCIRYKGMVKVSRNYFSKLWLLYRSCIDDSAFERFLPRVWCLLRRYQMMFGVGLYEGTGLQGSLPVHVFEALHRLFGVSFEFCFASPLNCYFRQYCSAFPDTDGYFGSRGPCLDFAPLSGSFEANPPFCEELMDAMVSHFERLLESSPEPLSFIVFIPWEPPPTPALTRMEQSRFKRHLILPAFEHEYRSGSQHICKKEEMHYKAVHNTAVLFLQNDPGFAKWAPTPERLQELSAAYRQSGRSHSSGSSSSSSSEAKDRDSGREQGSREPHPT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_022104

ORF Size: 2112 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022104.4](#)

RefSeq Size: 2703 bp

RefSeq ORF: 2115 bp

Locus ID: 63935

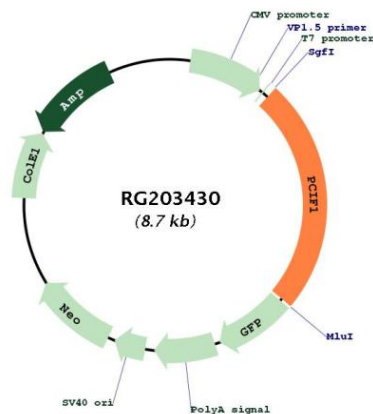
UniProt ID: [Q9H4Z3](#)

Cytogenetics: 20q13.12

Domains: WW

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 (PubMed:30467178). Recruited to the early elongation complex of RNA polymerase II (RNAPII) via interaction with POLR2A and mediates formation of m6A(m) co-transcriptionally (PubMed:30467178). N6-methylation of m6A(m) promotes the translation of capped mRNAs (PubMed:30467178).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203430