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Product datasheet for RC203430

PCIF1 (NM_022104) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCIF1 (NM_022104) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCIF1
Synonyms:	C20orf67; CAPAM; hCAPAM; hPCIF1; PPP1R121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203430 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAATGAGAATCACGGCAGCCCCCGGGAGGAAGCGTCCCTGCTGAGTCACTCCCCAGGTACCTCCA
ATCAGAGCCAGCCCTGTTCTCCAAAGCCAATCCGCCTGGTTCAGGACCTCCCAGAGGAGCTGGTGCATGC
AGGCTGGGAGAAGTGCTGGAGCCGGAGGGAGAATCGTCCCTACTACTTCAACCGATTCACCAACCAGTCC
CTGTGGGAGATGCCCGTGCTGGGGCAGCACGATGTGATTTCGGACCCTTTGGGGCTGAATGCGACCCCAC
TGCCCCAAGACTCAAGCTTGGTGGAAACTCCCCCGGCTGAGAACAAGCCCAGAAAGCGGCAGCTCTCGGA
AGAGCAGCCAAGCGGCAATGGTGTGAAGAAGCCCAAGATTGAAATCCCAGTGACACCCACAGGCCAGTCG
GTGCCCAGCTCCCCCAGTATCCCAGGAACCCCAACGCTGAAGATGTGGGGTACGTCCCCTGAAGATAAAC
AGCAGGCAGCTCTCCTACGACCCACTGAGGTCTACTGGGACCTGGACATCCAGACCAATGCTGTCATCAA
GCACCGGGGGCCTTCAGAGGTGCTGCCCCCGCATCCCGAAGTGGAACTGCTCCGCTCTCAGCTCATCCTG
AAGCTTCGGCAGCACTATCGGGAGCTGTGCCAGCAGCGAGAGGGCATTGAGCCTCCACGGGAGTCTTTCA
ACCGCTGGATGCTGGAGCGCAAGGTGGTAGACAAAGGATCTGACCCCCTGTTGCCCAGCAACTGTGAACC
AGTCGTGTCACCTTCCATGTTTCGTGAAATCATGAACGACATTCCTATCAGGTTATCCCGAATCAAGTTC
CGGGAGGAAGCCAAGCGCCTGCTCTTTAAATATGCGGAGGCCGCCAGGCGGCTCATCGAGTCCAGGAGTG
CATCCCCTGACAGTAGGAAGGTGGTCAAATGGAATGTGGAAGACACCTTTAGCTGGCTTCGGAAGGACCA
CTCAGCCTCCAAGGAGGACTACATGGATCGCCTGGAGCATCTGCGGAGGCAGTGTGGCCCCCACGTCTCG
GCCGCAGCCAAGGACTCCGTGGAAGGCATCTGCAGTAAGATCTACCACATCTCCCTGGAGTACGTCAAAC
GGATCCGAGAGAAGCACCTTGCCATCCTCAAGGAAAACAACATCTCAGAGGAGGTGGAGGCCCCTGAGGT
GGAGCCCCGCCTAGTGTACTGCTACCCAGTCCGGCTGGCTGTGTCTGCACCGCCCATGCCCAGCGTGGAG
ATGCACATGGAGAACAACGTGGTCTGCATCCGGTATAAGGGAGAGATGGTCAAGGTCAGCCGCAACTACT
TCAGCAAGCTGTGGCTCCTTTACCGCTACAGCTGCATTGATGACTCTGCCTTTGAGAGGTTCCTGCCCCG
GGTCTGGTGTCTTCTCCGACGGTACCAGATGATGTTCGGCGTGGGCCTCTACGAGGGGACTGGCCTGCAG
GGATCGCTGCCTGTGCATGTCTTTGAGGCCCTCCACCGACTCTTTGGCGTCAGCTTCGAGTGCTTCGCCT
CACCCCTCAACTGCTACTTCCGCCAGTACTGTTCTGCCTTCCCCGACACAGACGGCTACTTTGGCTCCCG
CGGGCCCTGCCTAGACTTTGCTCCACTGAGTGGTTCATTTGAGGCCAACCCTCCCTTCTGCGAGGAGCTC
ATGGATGCCATGGTCTCTCACTTTGAGAGACTGCTTGAGAGCTCACCGGAGCCCCTGTCCTTCATCGTGT
TCATCCCTGAGTGGCGGGAACCCCCAACACCAGCGCTCACCCGCATGGAGCAGAGCCGCTTCAAACGCCA
CCAGTTGATCCTGCCTGCCTTTGAGCATGAGTACCGCAGTGGCTCCCAGCACATCTGCAAGAAGGAGGAA
ATGCACTACAAGGCCGTCCACAACACGGCTGTGCTCTTCCTACAGAACGACCCTGGCTTTGCCAAGTGGG
CGCCGACGCCTGAACGGCTGCAGGAGCTGAGTGCTGCCTACCGGCAGTCAGGCCGCAGCCACAGCTCTGG
TTCTTCCTCATCGTCCTCCTCGGAGGCCAAGGACCGGGACTCGGGCCGTGAGCAGGGTCCTAGCCGCGAG
CCTCACCCCACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203430 protein sequence
Red=Cloning site Green=Tags(s)

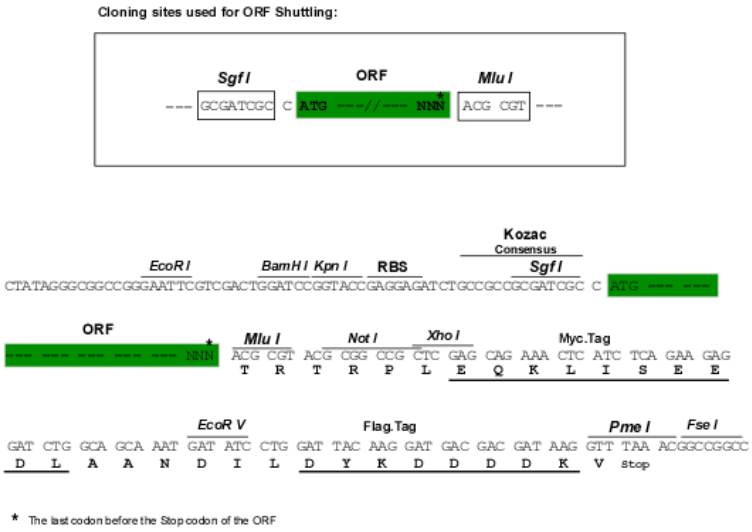
MANENHGSPREEASLLSHSPGTSNQSQPCSPKPIRLVQDLPEELVHAGWEKCWSRRENRPYYFNRFTNQS
LWEMPVLGQHDVISDPLGLNATPLPQDSSLVETPPAENKPRKRQLSEEQPSGNGVKKPKIEIPVTPTGQS
VPSSPSIPGTPTLKMWGTSPEDKQQAALLRPTEVYWDLDIQTNAVIKHRGPSEVLPPHPEVELLRSQLIL
KLRQHYRELCQQREGIEPPRESFNRWMLERKVVDKGSDPLLPSNCEPVVSPSMFREIMNDIPIRLSRIKF
REEAKRLLFKYAEAARRLIESRSASPDSRKVVKWNVEDTFSWLRKDHSASKEDYMDRLEHLRRQCGPHVS
AAAKDSVEGICSKIYHISLEYVKRIREKHLAILKENNISEEVEAPEVEPRLVYCYPVRLAVSAPPMPSVE
MHMENNVVCIRYKGEMVKVSRNYFSKLWLLYRYSCIDDSAFERFLPRVWCLLRRYQMMFGVGLYEGTGLQ
GSLPVHVFEALHRLFGVSFECFASPLNCYFRQYCSAFPDTDGYFGSRGPCLDFAPLSGSFEANPPFCEEL
MDAMVSHFERLLESSPEPLSFIVFIPEWREPPTPALTRMEQSRFKRHQLILPAFEHEYRSGSQHICKKEE
MHYKAVHNTAVLFLQNDPGFAKWAPTPERLQELSAAYRQSGRSHSSGSSSSSSSEAKDRDSGREQGPSRE
PHPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6566_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022104

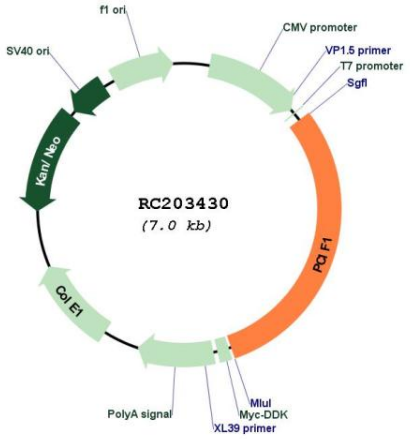
ORF Size: 2112 bp

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

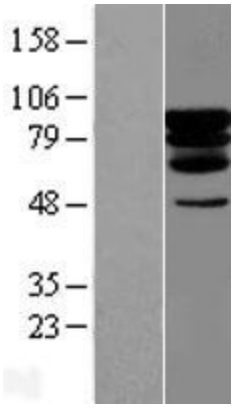
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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
MW:	80.7 kDa
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]

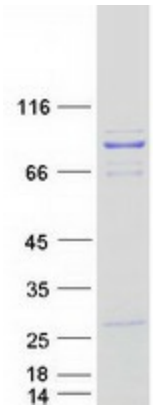
Product images:



Circular map for RC203430



Western blot validation of overexpression lysate (Cat# [LY411778]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203430 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PCIF1 protein (Cat# [TP303430]). The protein was produced from HEK293T cells transfected with PCIF1 cDNA clone (Cat# RC203430) using MegaTran 2.0 (Cat# [TT210002]).