

Product datasheet for **RC203119**

Coilin (COIL) (NM_004645) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coilin (COIL) (NM_004645) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Coilin
Synonyms:	CLN80; p80-coilin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203119 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCTTCCGAGACGGTTAGGCTACGGCTTCAATTTGATTACCCGCCCGCAGCTACCCCGACTGTA
 CGGCCTTCTGGCTTCTGGTCGACTTGAACAGATGCCGAGTCGTACAGATCTCATTAGTCTCATCCGCCA
 GCGCTTCCGGCTTCACTTCTGGGGCTTCTAGGCTCTACCTGGAGGGGGGGCTCTTGCCCCCGCCGAG
 AGCGCGCGCCTTGTGAGAGACAACGACTGCCTCAGAGTAAATAGAAGAGAGAGGAGTTGCTGAGAATT
 CTGTAGTCATCAGTAATGGTGACATTAATTTATCTTTAGAAAAGCAAAGAAGCGGGCATTTCAGTTAGA
 GGAGGGTGAAGAACTGAACCAGATTGCAAAATTTCAAAGAAGCATTGGAAGAGTCGAGAGAAACAATAAC
 AATAATGAGAAGTCTTGGATCTGGAACAAAAGCTGTACAGATCAGACTGTACAGAAAAAACAAGA
 GAAAAATAAAGCAACCTGTGGCACAGTGGGTGATGATAACGAAGAGGCCAAAAGAAAATACCAAAGAA
 AAAGGAGAAATGTGAATATAAAAAAAGGCTAAGAATCCCAAGTCTCCGAAAGTACAGGCAGTGAAGAC
 TGGGCCAATCAGAGATGTAGTTCTCAAAGGTTCTGCTAGAAAACAGCCTTGTTAAAGCCAAAAGGAAAG
 GTAGTGAAGCGTTTGTCAAAAAGAGAGTCCCAGTTCTCCTCGAGTCTGAATCTTGTGATGAATCTAT
 CAGTGATGGTCCCAGCAAAGTCACTTTGGAGGCCAGAAATTCCTCAGAGAAATTACCAACTGAGTTATCA
 AAGGAAGAACCCTTACCAAAAAACAACCTGCAGACAACTGGCTATAAACTTGGCTTTAGCCTTACCC
 CCAGCAAGGGCAAGACCTCTGGAACAACATCTCCAGTTCAGACTCTAGTGCAGAGTCAGACGACCAATG
 CTTGATGTCATCGAGCACCCGGAGTGTGCTGCGGGTTTCTTAAAGACAGTAGGCCTTTTTGCAGGAAGA
 GGTGTCAGGCCCAGGGCTGTCTCACAGACTGCAGGTGCTGCTGGATGGAGGCGTTCTGGCTCAAATG
 TGGTGGACAGGCTCTGGTCTCTCCAGTGTCTCTCCCTGCTAGTTTAGGAAGAGGATGGGCTAG
 AGAAGAGAACCCTTTTTCTTGAAGGGAGCTAAGGGACGGGCATGCGGGGGAGAGGTTCGAGGACGAGGG
 CATCTGTTTCTGTGTTGTAATAGAAGCACTGACAACCAAGGCAACGCAATTAATGACGTGGTAA
 AAAATTCATCTACTATTATCCAGAATCCAGTAGAGACCCCAAGAAGGACTATAGTCTGTTACCACTGTT
 AGCAGCTGCCCTCAAGTTGGAGAAAAGATTGCATTTAAGCTTTTGGAGCTAACATCCAGTTACTCTCT
 GATGCTCTGACTACAAGGAAGGAAGAATTAAGCCACAATCCAGAGACCCAGCAAGTAGATATAGAAA
 TTCTTTCATCTTACCTGCCTTGGAGAACCTGGGAAATTTGATTTAGTTTATCACAATGAAAATGGAGC
 CGAGGTAGTGGAGTACGCTGTGACACAGGAGCAAGATCACTGTATTTGGAAAGAGTTGATTGACCCA
 AGACTGATTATTGAATCTCCAAGTAACACATCAAGTACAGAACCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203119 protein sequence
 Red=Cloning site Green=Tags(s)

MAASETVRLRLQFDYPPPATPHCTAFWLLVDLNRVVDLISLIRQRFSSGAFGLGLYLEGGLLPPAE
 SARLVRDNDCLRVLKLEERGVAENSVVISNGDINLSLRKAKKRAFQLEEGEETEPDCKYSKKHWSRENNN
 NNEKVLDLLEPKAVTDQTVSKKNRKNKATCGTVGDDNEEAKRSPKKEKCEYKKKAKNPKSPKVQAVKD
 WANQRCS SPKGSARNL VKAKRKGVSVCSESPSSSESESCDESIDGSPKVTLEARNSEKLPTELS
 KEEPSTKNNTADKLAIKLGFSLTPSKGKTSGTTSSSDSSAESDDQCLMSSTPECAAGFLKTVGLFAGR
 GRPGPGLSSQTAGAAGWRRSGSNGGQAPGASPSVSLPASLGRGWGREENLFSWKGAKGRGMRGRGRGRG
 HPVSCVNRSTDNQRQQQLNDVVKNSSTIIQNPVETPKKDYSLLPLLAAPQVGEKIAFKLLELTSSYSP
 DVSDYKEGRILSHNPETQQVDIEILSSLPALREPDKFDLVYHNENGAEVVEYAVTQESKITVFWKELIDP
 RLIIESPNTSSTEPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6569_d02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004645

ORF Size: 1728 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_004645.3](#)

RefSeq Size: 2649 bp

RefSeq ORF: 1731 bp

Locus ID: 8161

UniProt ID: [P38432](#)

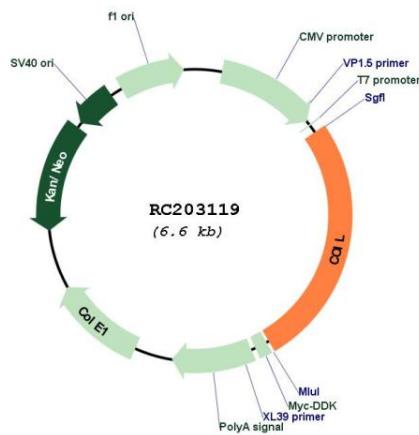
Cytogenetics: 17q22

Protein Families: Stem cell - Pluripotency

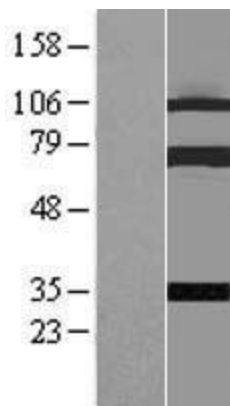
MW: 62.6 kDa

Gene Summary: The protein encoded by this gene is an integral component of Cajal bodies (also called coiled bodies). Cajal bodies are nuclear suborganelles of varying number and composition that are involved in the post-transcriptional modification of small nuclear and small nucleolar RNAs. The N-terminus of the coilin protein directs its self-oligomerization while the C-terminus influences the number of nuclear bodies assembled per cell. Differential methylation and phosphorylation of coilin likely influences its localization among nuclear bodies and the composition and assembly of Cajal bodies. This gene has pseudogenes on chromosome 4 and chromosome 14. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC203119



Western blot validation of overexpression lysate (Cat# [LY417847]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203119 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).