OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC117247

Coilin (COIL) (NM_004645) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coilin (COIL) (NM_004645) Human Untagged Clone
Tag:	Tag Free
Symbol:	Coilin
Synonyms:	CLN80; p80-coilin
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC117247 sequence for NM_004645 edited (data generated by NextGen Sequencing)

ATGGCAGCTTCCGAGACGGTTAGGCTACGGCTTCAATTTGATTACCCGCCGCCAGCTACC
CCGCACTGTACGGCCTTCTGGCTTCTGGTCGACTTGAACAGATGCCGAGTCGTCACAGAT
CTCATTAGTCTCATCCGCCAGCGCTTCGGCTTCAGTTCTGGGGCCTTCCTAGGCCTCTAC
CTGGAGGGGGGGCTCTTGCCCCCCGCCGAGAGCGCGCGCCTTGTGAGAGACAACGACTGC
CTCAGAGTTAAATTAGAAGAGAGAGGAGTTGCTGAGAATTCTGTAGTCATCAGTAATGGT
GACATTAATTTATCTCTTAGAAAAGCAAAGAAGCGGGCATTTCAGTTAGAGGAGGGTGAA
GAAACTGAACCAGATTGCAAATATTCAAAGAAGCATTGGAAGAGTCGAGAGAACAATAAC
AATAATGAGAAGGTCTTGGATCTGGAACCAAAAGCTGTCACAGATCAGACTGTCAGCAAA
AAAAACAAGAGAAAAAATAAAGCAACCTGTGGCACAGTGGGTGATGATAACGAAGAGGCC
AAAAGAAAATCACCAAAGAAAAAGGAGAAATGTGAATATAAAAAAAAGGCTAAGAATCCC
AAGTCTCCGAAAGTACAGGCAGTGAAAGACTGGGCCAATCAGAGATGTAGTTCTCCAAAA
GGTTCTGCTAGAAACAGCCTTGTTAAAGCCAAAAGGAAAGGTAGTGTAAGCGTTTGCTCA
AAAGAGAGTCCCAGTTCCTCCTCGGAGTCTGAGTCTTGTGATGAATCTATCAGTGATGGT
CCCAGCAAAGTCACTTTGGAGGCCAGAAATTCCTCAGAGAAATTACCAACTGAGTTATCA
AAGGAAGAACCCTCTACCAAAAATACAACTGCAGACAAACTGGCTATAAAACTTGGCTTT
AGCCTTACCCCCAGCAAGGGCAAGACCTCTGGAACAACATCTTCCAGTTCAGACTCTAGT
GCAGAGTCAGACGACCAATGCTTGATGTCATCGAGCACCCCGGAGTGTGCTGCGGGTTTC
TTAAAGACAGTAGGCCTTTTTGCAGGAAGAGGTCGTCCAGGCCCAGGGCTGTCATCACAG
ACTGCAGGTGCTGCTGGATGGAGGCGTTCTGGCTCAAATGGTGGTGGACAGGCTCCTGGT
GCTTCTCCCAGTGTGTCTCTCCCTGCTAGTTTAGGAAGAGGATGGGGTAGAGAAGAGAAC
CTTTTTTCTTGGAAGGGAGCTAAGGGACGGGGCATGCGGGGGAGAGGTCGAGGACGAGGG
CATCCTGTTTCCTGTGTTGTAAATAGAAGCACTGACAACCAGAGGCAACAGCAATTAAAT
GACGTGGTAAAAAATTCATCTACTATTATCCAGAATCCAGTAGAGACACCCAAGAAGGAC
TATAGTCTGTTACCACTGTTAGCAGCTGCCCCTCAAGTTGGAGAAAAGATTGCATTTAAG
CTTTTGGAGCTAACATCCAGTTACTCTCCTGATGTCTCTGACTACAAGGAAGGAAGAATA
TTAAGCCACAATCCAGAGACCCAGCAAGTAGATATAGAAATTCTTTCATCCTTACCTGCC
TTGAGAGAACCTGGGAAATTTGATTTAGTTTATCACAATGAAAATGGAGCCGAGGTAGTG
GAGTACGCTGTGACACAGGAGAGCAAGATCACTGTATTTTGGAAAGAGTTGATTGACCCA
AGACTGATTATTGAATCTCCAAGTAACACATCAAGTACAGAACCTGCCTGA

Clone variation with respect to NM_004645.2
753 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004645 unedited
GAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGCCTCGTGCCGAA
TTCGGCACGAGGCACCAAGCAAGATGGCAGCTTCCGAGACGGTTAGGCTACGGCTTCAAT
TTGATTACCCGCCGCCAGCTACCCCGCACTGTACGGCCTTCTGGCTTCTGGTCGACTTGA
ACAGATGCCGAGTCGTCACAGATCTCATTAGTCTCATCCGCCAGCGCTTCGGCTTCAGTT
CTGGGGCCTTCCTAGGCCTCTACCTGGAGGGGGGGCTCTTGCCCCCCGCCGAGAGCGCGC
GCCTTGTGAGAGACAACGACTGCCTCAGAGTTAAATTAGAAGAGAGAGGAGTTGCTGAGA
ATTCTGTAGTCATCAGTAATGGTGACATTAATTTATCTCTTAGAAAAGCAAAGAAGCGGG
CATTTCAGTTAGAGGAGGGTGAAGAAACTGAACCAGATTGCAAATATTCAAAGAAGCATT
GGAAGAGTCGAGAGAACAATAACAATAATGAGAAGGTCTTGGATCTGGAACCAAAAGCTG
TCACAGATCAGACTGTCAGCAAAAAAAACAAGAGAAAAAATAAAGCAACCTGTGGCACAG
TGGGTGATGATAACGAAGAGGCCAAAAGAAAATCACCAAAGAAAAAGGAGAAATGTGAAT
ATAAAAAAAAGGCTAAGAATCCCAAGTCTCCGAAAGTACAGGCAGTGAAAGACTGGGCCA
ATCAGAGATGTAGTTCTCCAAAAGGGTCTGCTAGAAACAGCCTTGTTAAAGCCAAAGGNA
AAGGTAGTGTAAGCGTTTGCTCAAAGAGAGTCCCCAGTTCCTCCTCGAGTCTGAGTCTGT
GATGATCTATCAGTGATGGTCCCAGCAAGTCACTTTGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004645 unedited
TGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAGTTCAATATGATTTTATTTAAAAATGTGT
ACAGCTGAAGGAGGGATCTGATCTTTTGTTAAATGAAACCAATTTTCACGGTATATATTT
GGCCATTTTAGCTTCGTAGTGAATAATAACAGAAAAGGAAGTTTCTGTTCAAGATCCTCA
CTCCAGCACACTCAGCCAGGTGCCTGGCAAGATGACACATTTCCTGGTCTGAAGCTCACA
GCCAATCCTCTCACTGAAGTGAAACACCAATTCTCCAGGCATACACACACATACGCACAT
CTTATTTTCACTGCTCTACACAGGGACCTGAGAATCCTTAATTTTAAAGTTGGGAAAAAC
GTGAAAGGATTCCTTAACTCATTGTCTGCGACAAATCCAACTACCTGTTAACTCTTAACA
ATTGCAAGTATAAAATACTTGAAATTTACAAGATGCTCCATTTAATGGAACAACTCANAT
GCTAAAAAATTAGGTCAAATAACATGCTTTAATATTTTTAAATGTTACTTAAAACTTATT
GAGANCAGATACGCAGCACATTCTTGGTATTATAAACTCCTACTGACGACTGCTACTTGA
TGGCCAANAACATTTAAAGAAAGAGAAGAAACCATACTGGTATACCACAATATCTGCAAG
GGATGTCATGTTTTACATTTTGTTAACCTGAATTAAACCTGACCAAAAAACCAAGATCTA
CAAAACCGACACCCATGTCATTTTAAATGATGAGGTANATNGTTTCCTATGCAGTAAGGG
AAGATACCAAAAAATCCTCCACTTTCAAATCTTTTAAAAAAAAAAAGTTTGGTTTTGTCA
CTTTCAAACAGACATCATAACTTTAAGTGAAAGGTCTACTCAGCCGGCCTGCCTGAGGGG
TACTTGAGATCAAAACAACCTGGTCCATACACTTTCCAAAAANGGATTGTTTCTGGTACA
GGACCCACTCCCGTCCATTAATGGGAAATAATCAATTCCAGTTTCTAGGGGAAGTGAAAA
TTTATCTTGTGGTTCGT

Restriction Sites: NotI-NotI

ACCN: NM_004645

Insert Size: 2940 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_004645.2, NP_004636.1

RefSeq Size: 2649 bp

RefSeq ORF: 1731 bp

Locus ID: 8161

UniProt ID: P38432

Cytogenetics: 17q22

Protein Families: Stem cell - Pluripotency

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]