

Product datasheet for SC313181

CCDC16 (ZNF830) (NM 052857) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: CCDC16 (ZNF830) (NM_052857) Human Untagged Clone

Tag: Tag Free Symbol: CCDC16

Synonyms: CCDC16; OMCG1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC313181 representing NM_052857.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCGTCCTCCGCCCGGACTCCGGCAGGGAAGCGAGTGATAAATCAGGAAGAATTGCGGCGG TTAATGAAGGAGAAGCAGCGTCTGAGCACCAGTCGGAAACGGATAGAATCTCCATTCGCGAAGTACAAC TCCGCCAGTTCAGCGCCTCATTCCGTCAAGAGGAAAGCGCCGGACGCAGACGACCAAGATGTCAAGAGA GCGAAGGCCACCTTGGTGCCTCAGGTACAGCCCTCCACATCTGCGTGGACCACCCAACTTTGACAAAATA GGAAAGGAGTTCATTAGAGCGACTCCCAGTAAGCCTTCAGGACTCAGTTTACTCCCCGATTATGAAGAT TCCGACGCACAGGGCAAGGAGCACTCAGTTTCCTCTCACGGGAGGTAACAAGTAGTGTGCTGCCAAAC GATTTCTTTAGTACTAATCCTCCCAAGGCCCCCATAATTCCTCATTCAGGGTCAATTGAGAAAGCAGAA ATACATGAAAAAGTGGTGGAAAGGAGAGAAAACACCGCGGAAGCGTTACCGGAAGGTTTTTTTGACGAC CCTGAGGTAGATGCAAGAGTACGAAAGGTTGATGCTCCAAAAGATCAGATGGACAAAGAGTGGGACGAA TTCCAAAAAGCCATGAGGCAGGTCAACACTATTTCCGAAGCCATAGTTGCCGAAGAGGATGAGGAGGAG CGGTTGGACCGCCAGATTGGGGAGATCGATGAGCAGATAGAGTGTTACCGACGGGTGGAAAAGCTACGG AATCGCCAGGATGAAATAAAAATAAACTTAAAGAAATCCTGACCATAAAAGAACTGCAGAAAAAGGAA GAAGAGAATGCTGACAGCGATGATGAGGGGGAACTACAGGATTTGTTGTCTCAGGATTGGAGGGTGAAA **GGGGCATTGTTATAG**

ACGCGTACGCCGCCCCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul



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CCDC16 (ZNF830) (NM_052857) Human Untagged Clone - SC313181

ACCN: NM_052857 **Insert Size:** 1119 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: <u>NM 052857.3</u>

 RefSeq Size:
 1657 bp

 RefSeq ORF:
 1119 bp

 Locus ID:
 91603

 UniProt ID:
 Q96NB3

 Cytogenetics:
 17q12

 Domains:
 ZnF_U1

 MW:
 42 kDa

Gene Summary: May play a role in pre-mRNA splicing as component of the spliceosome (PubMed:25599396).

Acts as an important regulator of the cell cycle that participates in the maintenance of genome integrity. During cell cycle progression in embryonic fibroblast, prevents replication fork collapse, double-strand break formation and cell cycle checkpoint activation. Controls mitotic cell cycle progression and cell survival in rapidly proliferating intestinal epithelium and embryonic stem cells. During the embryo preimplantation, controls different aspects of M phase. During early oocyte growth, plays a role in oocyte survival by preventing chromosomal

breaks formation, activation of TP63 and reduction of transcription (By similarity).

[UniProtKB/Swiss-Prot Function]