

Product datasheet for **RC218305**

CCDC16 (ZNF830) (NM_052857) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC16 (ZNF830) (NM_052857) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCDC16
Synonyms:	CCDC16; OMCG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218305 representing NM_052857 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGTCCTCCGCTCCGCCGGAAGCGAGTGATAAATCAGGAAGAATTGCGGCGGT
 TAATGAAGGAGAAGCAGCGTCTGAGCACCAGTCGGAAACGGATAGAATCTCCATTCGCGAAGTACAACCG
 TTTGGGCGAGTGTGTTGCTGTGTAACTCCGGTTAAGAGCGAGCTCCTGTGGCAGACTCACGTC
 CTGGGAAAGCAGCACCAGAGAAAGTGGCCGAGCTGAAAGGCGCAAGGAAGCCAGGGTTCGTCCG
 CCAGTTCAGCGCCTCATTCCGTCAGAGGAAAGCGCCGACGACGACCAAGATGTCAAGAGAGCGAA
 GGCCACCTTGGTGCCTCAGGTACAGCCCTCCACATCTGCGTGGACCACCACTTTGACAAAATAGGAAAG
 GAGTTCATTAGAGCGACTCCCAGTAAGCCTTCAGGACTCAGTTTACTCCCGATTATGAAGATGAGGAGG
 AGGAGGAAGAGGAGGAGGAAGGAGATGGAGAAAGAAAAGGGGGGACGCCAGCAAGCCGCTCTCCGACGC
 ACAGGGCAAGGAGCACTCAGTTTCCTCTTCACGGGAGGTAACAAGTAGTGTGCTGCCAACGATTTCCTT
 AGTACTAATCCTCCAAGGCCCCATAATTCTCATTACGGGTCAATTGAGAAAGCAGAAATACATGAAA
 AAGTGGTGAAAGGAGAGAAAACACCGCGGAAGCGTTACCGGAAGGTTTTTTGACGACCCTGAGGTAGA
 TGCAAGAGTACGAAAGGTTGATGCTCCAAAGATCAGATGGACAAAGAGTGGGACGAATTCAAAAAGCC
 ATGAGGCAGGTCAACACTATTTCCGAAGCCATAGTTGCCGAAGAGGATGAGGAGGGACGGTTGGACCGCC
 AGATTGGGAGATCGATGAGCAGATAGAGTGTACCGACGGGTGAAAAGCTACGGAATCCCGAGGATGA
 AATAAAAAATAAACTAAAGAAATCCTGACCATAAAAGAACTGCAGAAAAAGGAAGAAGAGAATGCTGAC
 AGCGATGATGAGGGGAACTACAGGATTGTTGTCTCAGGATTGGAGGTGAAAGGGGCATTGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC218305 representing NM_052857
 Red=Cloning site Green=Tags(s)

MASSASARTPAGKRVINQEELRRLMKEKQRLSTSRKRIESPFAYNRLGQLSCALCNPVKSELLWQTHV
 LGKQHREKVAELKGAEASQGSSASSAPHSVKRKAPDADDQDVKRAKATLVPQVQPSTSAWTTNFDKIGK
 EFIRATPSKPSGLSLLPDYEDEEEEEEEGDGERKRGDASKPLSDAQGKEHSVSSSREVTSSVLPNDF
 STNPPKAPIIPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDARVRKVDAPKDQMDKEWDEFQKA
 MRQVNTISEAIVAEDEEGRLDRQIGIDEQIECYRRVEKLNRQDEIKNKLKEILT IKELQKKEENAD
 SDDEGELQDLLSQDWRVKGALL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8021_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_052857

ORF Size: 1116 bp

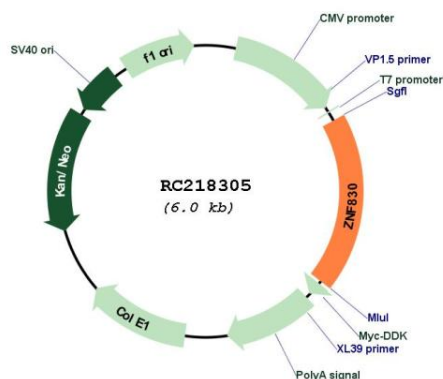
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

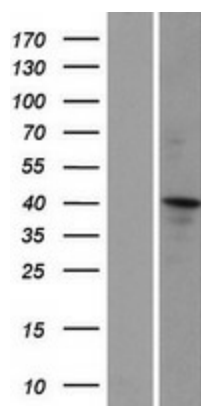
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_052857.4</u>
RefSeq Size:	1646 bp
RefSeq ORF:	1119 bp
Locus ID:	91603
UniProt ID:	<u>Q96NB3</u>
Cytogenetics:	17q12
Domains:	ZnF_U1
MW:	41.8 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]

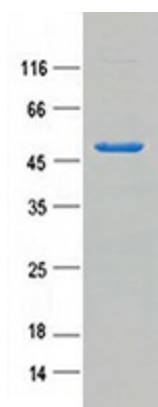
Product images:



Circular map for RC218305



Western blot validation of overexpression lysate (Cat# [LY409433]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218305 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNF830 protein (Cat# [TP318305]). The protein was produced from HEK293T cells transfected with ZNF830 cDNA clone (Cat# RC218305) using MegaTran 2.0 (Cat# [TT210002]).