

Product datasheet for **MR219067**

Ccdc36 (NM_001135198) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc36 (NM_001135198) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccdc36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219067 representing NM_001135198
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTTTAATGTCTGGAATGTTAAAGAGATGCTCAGCATCCCCTCAGGCTCTGGGATCACTAAACCAT
 CTAAGTGAATAATAATCAGACTGACTGTTCTCTCAGTGATTCCCAGTTCCTCTTTGGATCTCAGTTCTG
 TCCTGAAAATTCAGAGACTCTGCTACCGTCTTGATGCTGGTGTCTGCTTAAGACACCCAAAACAGACA
 CAACAGAAATTCGTGGATAGTGAACCTAGTATTTTCATAAAAATACCAGGCCAAAGCCCAAGTTGCTTGGAG
 GCGATACAAAAGATGAAAGCTTATTTTCTCTTCCCTTGGCAGTTGGGAAATCAAAGGACTCTCAAACA
 GTTTGAGGAGAAAAACGAAGGGCAACGGACCAATCTGACAGTGAGACCTGCACAGCTTTGTTTCTCAT
 TTTCCAGAAGTCATTAACAAGTTGCAGACATCTGTGAAAAGACTGAGGAAAATCTCAGCTCTAGAAGCC
 AGTCTATTTTAGATTCTGTGGAGACCATAGCCAAGACTTTTCAAGAGACTGCACGGTCCAGCACGACCT
 GATGGTTGAGTCAGTGAGAGACAAAGGCAGCATGGAGCAGGCCATCCTTGAGATCCAGCGGACATGTGCA
 GCTAGACAAGCAGAAATTTATGGAGATGAAATCCACCCTGAAGAACCTTGAAGTTTAGTTGTGGAGCAGA
 CTAAGAATTGCAGCAGTTTTGTGACAACCTGAGCCAGCTCATTGTGCCTGGTATCCTAGAAGAGCTGAA
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 CAGCACAAGGGAACCTCGTGCAGCATCCAGCGCTTCCACAGACAGCAGCTCCAGGGAGACCAGCA
 GATAAATTGGTTCAGTGACCTCAGCCTGAAAACCTAGAGCCGCCACAGTGAAGAAGGGAGGGACGAAT
 TTGCTCTGTGACCCGATTTTATAGCAGCGATGATAATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219067 representing NM_001135198
 Red=Cloning site Green=Tags(s)

MNFNVWVKEMLSIPSGSGITKPSNWNQNTDCSLSDSQFLFGSQFCPENSETLLPSLDAGACL RHPKQT
 QQNSVDSEPSIFIKYQAKPQLLGGDTKDESLFSLPLPVGKSKGLSKQFEEKRRATDQSDSETLHSFVSH
 FPEVINKLQTSVEKTEENLSSRSQSILDSVETIAKTFQETARVQHDL MVESVRDKGSMEQAILEIQRTCA
 ARQAEFMEMKSTLKNLEVLVVEQTKNLQQFCNLSQLIVPGILEELKKFTSVPQVAGHLK DSTSQTSPSL
 TQSLHFTRQEKHPSEEPATWQAQEAPAGNPSTSSQRPGECEGVWDEGAESGVFQKAALPTDGLHRGDGHVK
 NKTVPITYCKNWMTTRS VSNHFSNLPSQRAGNGQGLMAQGASQRDVSKFEARVKNACPEYGPQSMCSFDS
 LEQSATEQKGRPCRKR RRRGKKQPQRSKRGLLDRKQGQTSKAACAFIARHHCQPSPVCDPQGPLICWLT
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 LLCDDPDFDSSDDNF

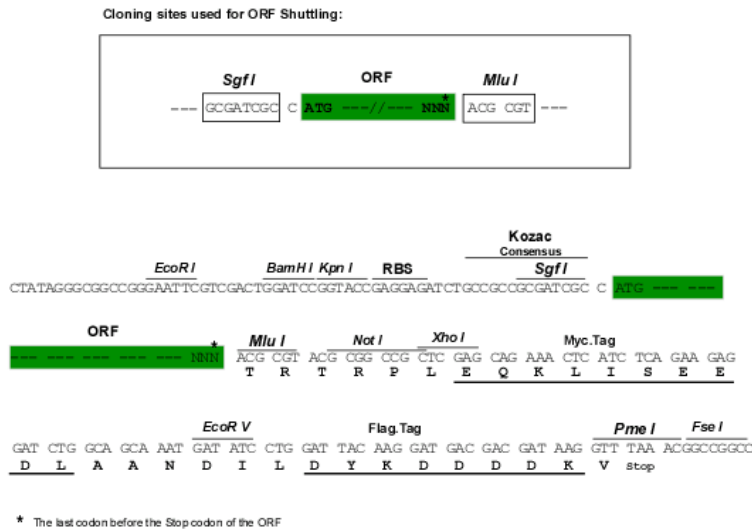
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9072_d06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001135198

ORF Size: 1722 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_001135198.2](#)

RefSeq Size: 2878 bp

RefSeq ORF: 1725 bp

Locus ID: 434438

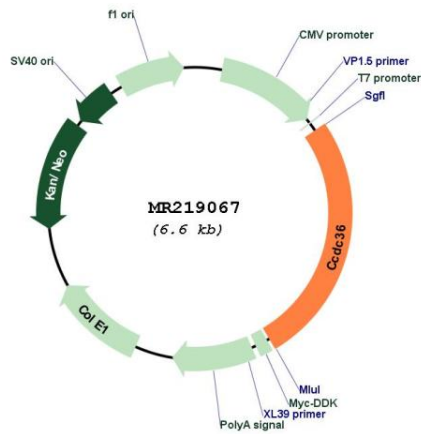
UniProt ID: [Q6PDM4](#)

Cytogenetics: 9 F2

MW: 63.3 kDa

Gene Summary: Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination (PubMed:27723721). Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis (PubMed:27723721). Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance (PubMed:27723721).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219067