

## Product datasheet for **MC219250**

### **Ccdc36 (NM\_001135198) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC219250 representing NM\_001135198  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATTTTAATGTCTGGAATGTTAAAGAGATGCTCAGCATCCCCCTCAGGCTCTGGGATCACTAAACCAT  
 CTAAGTGAATAATAATCAGACTGACTGTTCTCTCAGTGATTCCAGTTCCTCTTTGGATCTCAGTTCTG  
 TCCTGAAAATTCAGAGACTCTGCTACCGTCTTGATGCTGGTGTCTGCTTAAGACACCCAAAACAGACA  
 CAACAGAATTCTGTGGATAGTGAACCTAGTATTTTCATAAAAATACCAGGCAAAGCCCCAGTTGCTTGGAG  
 GCGATACAAAAGATGAAAGCTTATTTTCTCTTCCCTTGGCAGTTGGGAAATCAAAGGACTCTCAAACA  
 GTTTGAGGAGAAAAACGAAGGGCAACGGACCAATCTGACAGTGAGACCTGCACAGCTTTGTTTCTCAT  
 TTTCCAGAAGTCATTAACAAGTTGCAGACATCTGTGAAAAGACTGAGGAAAATCTCAGCTCTAGAAGCC  
 AGTCTATTTTAGATTCTGTGGAGACCATAGCCAAGACTTTTCAAGAGACTGCACGGTCCAGCACGACCT  
 GATGGTTGAGTCAGTGAGAGACAAAGGCAGCATGGAGCAGGCCATCCTTGAGATCCAGCGGACATGTGCA  
 GCTAGACAAGCAGAATTTATGGAGATGAAATCCACCCTGAAGAACCTTGAAGTTTAGTTGTGGAGCAGA  
 CTAAGAATTGCAGCAGTTTTGTGACAACCTGAGCCAGCTCATTGTGCCTGGTATCCTAGAAGAGCTGAA  
 AAAATTCACCTCTGTGCCTCAGGTGGCTGGGCATCTGAAAGACAGCACCTCTCAGACCTCACCATCTCTG  
 ACCCAGAGCCTCCATTTTACCAGGCAGGAAAAGCATCCCTCTGAGGAGCCAGCTACTTGGCAGGCCCAGG  
 AGGCTCCTGCAGGAAATCCAGTACGAGTTCAGAGGCTGGGGAGTGTGGTGTCTGGGATGAAGGAGC  
 AGAGAGTGGTGTTTTCAAAGGCTGCATTGCCAACAGATGGGCTCCATAGAGGCGATGGGCATGTAAG  
 AACAGACCGTGCCGACTTACTGCAAGAAGTGGTTCATGACCACCAGAAGCGTCAGTAACCACTTCTCTA  
 ACCTCCCAAGCCAGAGGGCTGGCAATGGCCAAGTCTGATGGCCCAAGGAGCTTACAGCGGGACGTAAG  
 TAAGTTTGAAGCCAGAGTGAAGAATGCCTGCCCGAATATGGGCCCAAAGCATGTGTTCTTTGACTCA  
 CTTGAACAGTCAGCAACCGAACGAAAGCAGGCCCTGCAGAAAAGGAGGAGAGGCAAGAAGCAACAAC  
 CCCAGAGATCAAAGAGAGGTGGGCTTCTAGATAGGAAGCAAGGACAGACCTCAAAGGCGGCTGTGCTTT  
 CATAGCTAGGCATCACTGCCCCAGTCTCCAGTGTGTGATCCACAGGGGCCCTCATCTGTTGGCTGACT  
 CCGAGAAGTTCACAAAGTCAACCTGTACATTTTGGGAGGAACGGGAGAGACCAGTCCAGACAGCAAGGG  
 CAGCACAAGGGAACCTCGTGCAGCATCCAGCGCTTCCACAGACAGCAGCTCCAGGGAGACCAGCA  
 GATAAATTGGTTCAGTGACCTCAGCCTGAAAACCTAGAGCCGCCACAGTGAAGAAGGGAGGGACGAAT  
 TTGCTCTGTGACCCGATTTTATAGCAGCGATGATAATTTCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001135198
- Insert Size:** 1725 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\\_001135198.1](#), [NP\\_001128670.1](#)

**RefSeq Size:** 2878 bp

**RefSeq ORF:** 1725 bp

**Locus ID:** 434438

**UniProt ID:** [Q6PDM4](#)

**Cytogenetics:** 9 F2

**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]