

## Product datasheet for **MC223895**

### Ccdc40 (NM\_175430) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ccdc40 (NM\_175430) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ccdc40  
**Synonyms:** B930008I02Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223895 representing NM\_175430  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGATGCTGAGAAAGTCAGCACGGATGGGAAGCCATCTCTGAAGGAGAAGTGGGGTCCAATGGAG  
AGACTCCCCAGAAACAGAAGTGAATTTCATTGGAGAGACCGCTCCAGACACAGATGTGGAATTCATTGG  
AGAGACCTCCCCAGGAACAGACGTGGAACCCACTGGAGAGAGCATACAGGAAACAGAAGTTGAATCCATC  
GGAGAGGCTACCCAGGAATGGACGTGGAACCCATTAAGAAAGACCATGACAGAATCAACGTTGAATCCCA  
TCGGAGAAGAAACCTCAGAAACAGACGTGGACTCCATTAGGAAGGCCCTCCGAGGAATAGACTTGAATC  
TATCACAGTTGCCTATCCGCCAAAAAAGGCTAAACACAGAAAGGTGAGACCCCAAGCGGAAGTTGAATCC  
ACTGGAAGAGCTGCCCGAAGGAGAATTAGAAGTTTCTGACCACGAGAAAGTAGAAGCCCTTCTCGATG  
AGTTGGATGAGCTCTCTGAGATAGTCAGCTCTCCGAGGTCTCCTACTCTGACATCAGTCCCTTGGAGAT  
GGGTGAAGATGACACAAACGTCTCAGCCACATCAACCGACACATTCCAGCAAGGCATATATGAGCCATA  
GAACCCATAGAGCCACAGAGCCCCAGAGCCTGCAGAGCCCCAAAGCCTGCAGAGCCCCAGAGGACA  
GCACGGTGAGAGCCCCAGCGCATCCCTATCAAAGAGACTTCCCAATGGGGGCACGACCCGATTCAGACT  
GAGCATCATGGGAAGTCTGACTCCCTCGGACACGACGATCTTCCCTGGAAACGACGAGCCGCCTCAG  
CAAGAGTCAGTGCACTCACTCCAGAGCCCTGAAGAAACCCGGATACAGTTCTAGACCAGGTCCAGA  
GCCTCAGCCCGGAGGCCCTGCTCGATAGAGCAACTGAAGGGAGTGATGAAGCAGAGGAGGAAGGCTCCCA  
GCTGATCGTGCTGGACCCAGACCATCCTCTGATGATCAGATTCCAGGAGGCTCTGAAGGGCTACCTCAAC  
CGGCAGATGGACAAACTGAAGCTGGACGTCCAAGAGCTGGATGTGGCCACCAAGCAAACCCGAAGCCAGA  
GGCAGGAGCTGGGCGTGAACCTCTACGGGGTCCAGCAGCACCTGGCCCGCTGCAGATGCAGCTGGAGAA  
GAGCCATGACCGCACTCTCTGGTGGCCTGTGAGCGGAGAAGGAAGGAGGAGGAGCTGCAATGCGCACGC  
TCCGTCTACAACAAGACCTGCCAGACCCCAATGAGGAACGAAAGAAGTTGGCCCGCTGCAGACAGAGG  
TGGAGAGCCTGGCCCTGCACCTTCTACATGCAGAACATAGAGCAGGAGGTGCGCGATGACATCCAAGT  
CATGAAGCAGGTGGTGAGGAAGCCGAGACGGAGAAGATGCACGCCGAGGTGGAGAAGAAAAAGCAGGAC  
CTGTTTGTGGACCAGCTCACCGAAAGGTCACACAGCTAGAAGAAAACATCGCCCTGTTTGAGGCTCAAT



ACTTGTCCCAGGCTGAGGACACCCGGTCTCAAGAAAGCAGTGACTGAGGCCATCACAGAGATTGACAC  
 CATTGCCGTGGAGAAGAAGCGAATCCTACAGCAGTGGACCACCAGCCTAGTGGGCATGAAGCACCGTAAC  
 GAGGCATACAAGACAGTGATGGATGCGCTCAGGGAGTGTGAGCATCAGGTGAAGTCCACCACAGTGAGA  
 TCGAAGTCTGCAAGAAGTCCATCATGCAGGAGGAAGAGAAGAATGAGAAGCTGGCCCGTCTCTGAACCG  
 CGCAGAGACAGAAGCCACACTGGTGCAGAAAATGACCCCCAGTGCTTAAGCAAGCAAGAGGCTCTGCAG  
 ACGGAGTTTAAACACGTACCAGCTCGCCCTGCAGGACACGGAGGAGATGCTGAACAAGGGCTATGTGGAAC  
 ACTCGGCAGTCTTGAGCGAGCTCCAGGCCACGCCAGGCTTTCCACCAGGAACAGGAGCTACGGCAAAA  
 GATGGACATGTCCATGGTGGACAAGCTGCAGGAACAGGGGACCTCCAGCAAGATGACCAAGTACTTTCAT  
 CAGCTCCTTCGGAAGCTGCAAAAAGGAAAACACCAACCTGGTGACACATCTTTCAAAAATTGACGGCGATA  
 TCGCCAGGCCACCCTGGACATCACCAACACCAACTGCAAAAATAGACATGCATAAGAAGACGCTGGCAGA  
 GATGGACAAGGAGGTAAGAGGTTCAACGATCTCATCACCAACAGCGAGAGCGAGATCGCCCGGCGCACC  
 ATCCTCATTGAGAGGAAGCAGAGCCTCATCAACTTCTTCAACAAGCAGCTGGAACAGATGGTGTGCGAGC  
 TGGGGGGGAAGAAGCTGGACCCCTGGAAGTGGAGATCAAAGGCTGTGGAAGCTGACAGAAGAGTACAA  
 CACGGGAGTGGCTGAGGGCAGATGACCTGGTTGCGCCTGCAGCAGGAAGTGGTCCAGGTACGCATGAG  
 CGCGAGGAGCAGTGGTGTCCGTGGACCAACTGAAGAAGGAGGTGCACATCATGGAACAAAAGAAGCTTC  
 GCATAGAGAGCAAGATTGCACATGAGAAGAAGGAACAAAAGATAGTGAGCCGCCACATGAGGGACCTGGA  
 CAACGACCTGAGCAAGCTCAACATGCTGTTGGACAAGAACCAGTGCAGTTCGGAAGAGCTGGAGCAGAAC  
 AATATAGCAACTGAGACGGAGTTTCTGCGCAGCTGAAGGACTCAGAAAGAGAGACCATTCAAATGCAGG  
 AAAAGCTGATGGAACCTCTGAGGAAAAGGCCACCCTCTCAACAGCTTCATGGAGGCAGAGCACCAAAAT  
 CATGCTGTGGGAGAAGAAAATCCAACCTGGCCAAGGAGATGCGCAGCTCGGTGGATTCTGAGACCGGGCAG  
 ACAGAGATCCGTGCTATGAAGGCCGAGATCCACAGGATGAAGTTAGGCACGGGCAGCTACTGAAGCAGC  
 AGGAGAAGATGATCCGTGACATGGAGTTGGCTGTGGCCCGCAGGGAGACCATCGTCGTCCAGGCTGAAGG  
 GCAGAGCAAGATAGACAAGAAAGTAATCACCAAGACAGAGTTCCACTACCAGCAGCGCAGCTGCAGAAG  
 AAAGTCAGGGAGATGCACAAGGCCACAGATGACTGCACCAACACCATCTCAGAAGTGAAGAAAACCTCAAA  
 AGTTCCTAAGCAGCTCCCTCCAGGAGAAGCAGCAACTGCTGTGCAAAAATGCAGGCTACCACAGATGTTCT  
 TGAAGAGGAGATCAACCAGCTAACAGCTCTCAAACGGCAGAACCTTCTGGAGATCGTGACCCTGCAGACC  
 CGTGGCAAGCACCTGCAGGCCGCAATTGAGGGGAAATATGTGTTCTGCACCGCAACAGCAGGTCCCAGC  
 TGATGGAGCGTAAGCGCCTGAGCGTCCGGCTGTCCAGCTCAACAAGGTCTCTCCAGCTGCAGGAAGA  
 CTACCCCCAGTACCAGGAGGTGCTGCAGAGCATTCAACAGAAGATCGCCACCAAGCTGGAGACCCAGAG  
 CCCTCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_175430

**Insert Size:**

3579 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\\_175430.4](#), [NP\\_780639.1](#)

**RefSeq Size:** 4979 bp

**RefSeq ORF:** 3579 bp

**Locus ID:** 207607

**UniProt ID:** [Q8BI79](#)

**Cytogenetics:** 11 E2

**Gene Summary:** Required for assembly of dynein regulatory complex (DRC) and inner dynein arm (IDA) complexes, which are responsible for ciliary beat regulation, thereby playing a central role in motility in cilia and flagella. Probably acts together with CCDC39 to form a molecular ruler that determines the 96 nanometer (nm) repeat length and arrangements of components in cilia and flagella. Not required for outer dynein arm complexes assembly. Required for axonemal recruitment of CCDC39.[UniProtKB/Swiss-Prot Function]