

## Product datasheet for **MG217042**

### **Ccdc39 (NM\_026222) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ccdc39 (NM_026222) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccdc39
Synonyms:	4921507O14Rik; AI447426; AI844750; b2b1304Clo; b2b1735Clo; b2b2025.1Clo; D3Ertd789e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217042 representing NM\_026222  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGCAGTGAGTCTTGTGCAGAGCTGCACTGGGAAGATGGGTTCCGCATCCCCGTGGCCAATCAGGAGA  
 ACAAGATCCTGGAGGATCAGTTGGCAAAGCTCCGAGAGGAAAAATCAAACCTTGAAGATCAGCTTATGA  
 CTATGAAGAACGAATTAATTCTATGACTTCTCACCTTAAAAATGTGAATCAGGAATTTTTATTACACAG  
 TCTCTTTACAAGCAAGGGAGAGTGAGATCGAGAGCGAAGAACATTTTAAGGCCATTGCTGAAAGAGAGC  
 TGGGCCGAGTCAAGAATGAGACCAACTGCTGGAGAAGGAGATGGCGATCATCCGGGAGCGCAAGAGCCA  
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 AGCCATGCTTACCTCACAGATCAGATGTGTTGAACAGCAGCGAAAAACTATGAGTTCTGAATTTTCATGAG  
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 TAGAACTACCTACAGCAAGAGGCCCGAGCTCGAGATCTTCTTCCAGTCTTCTCCCTTTTCATCATTGAG  
 GTCGCTCGAGGATGTAAGTCTCCAGTCTCCCCCAGCTAAAGTATACAGCTCAGATTTCCAGAGCCT  
 CCTCCAGCAACAATGACAGTTCTAGTCAAGTCTAGTGGCAGTAATCCAACATTCCTAAAGAAAAAA  
 AGCTCAGCAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217042 representing NM\_026222  
 Red=Cloning site Green=Tags(s)

MCSEFLSELHWEDGFAIPVANQENKILEDQLAKLREEKSNLQDQLHDYEERINSMTSHLKNVNQEFLLFTQ  
 SLYKARESEIESEEHFKAIARELGRVKNETQLLEKEMAIIRERKSMENNIFKTTQKLDLKCQMNWDQ  
 QALEAWLEESAHKSDSLSLTKYQSQDDNKIRALTLQLEKLTMEYNEKRKLLDSELTETLSAQLELDKAA  
 QDFRKIHLEERQELIQQWENTIEQMQRDQEI DNCALALSRKQEAAREKEGVVKEIKFLENEVENNIEYE  
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 DNLLKLQVKRARELLYSKAEVLSLEKRRQQLGKDMEERAEEIKVHKAMLT SQIRCVEQQRKTMSSFEHE  
 RLSKIDKLNRYEILTVVMLPPEGEEETQSYVVIKAAQEKEELQREGDSLDAKINKAEKEIYALQNTLQ  
 VLNSCNSNYKQSFKKVTPSSDEYALKIQLEEQRKRTADERYRCKQRQIRELQEDIQSMENFVIGHLANN  
 AKEKLTEKQTLAFQLRKETEEQPKLQRI TKQCGRLRREIRILKQTDNETLEEQDIQLREIIQFHKDIDQ  
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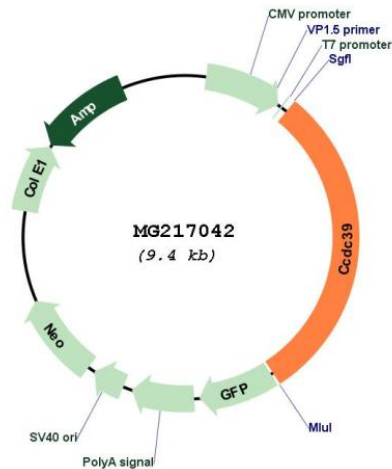
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_026222

**ORF Size:** 2811 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\\_026222.2](#), [NP\\_080498.1](#)

**RefSeq Size:** 3616 bp

**RefSeq ORF:** 2814 bp

**Locus ID:** 51938

**UniProt ID:** [Q9D5Y1](#)

**Cytogenetics:** 3 A3

**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 CCDC40 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.[UniProtKB/Swiss-Prot Function]