

## Product datasheet for MR223550

### Ccdc40 (NM\_175430) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc40 (NM_175430) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccdc40
Synonyms:	B930008I02Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR223550 representing NM_175430 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >MR223550 representing NM\_175430  
 Red=Cloning site Green=Tags(s)

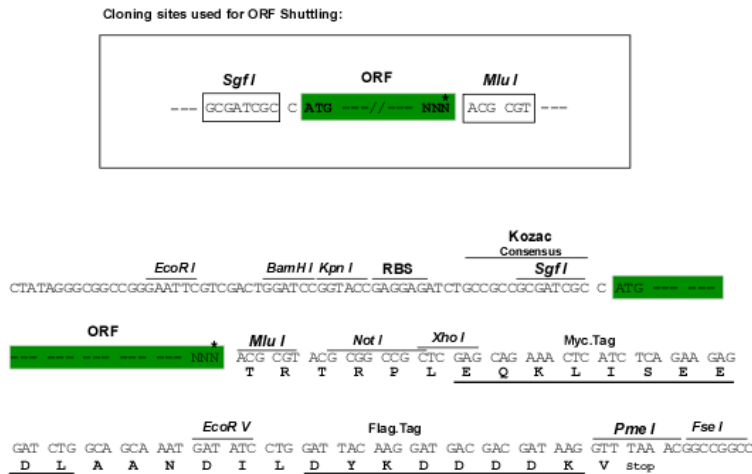
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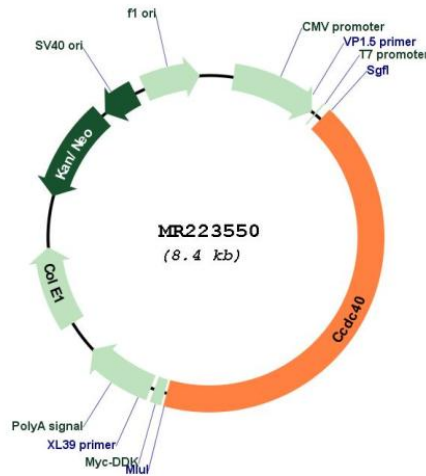
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_175430

ORF Size: 3576 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\\_175430.4](#), [NP\\_780639.1](#)

RefSeq Size: 4979 bp

RefSeq ORF: 3579 bp

Locus ID: 207607

UniProt ID: [Q8BI79](#)

Cytogenetics: 11 E2

**MW:** 137.2 kDa

**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]