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Product datasheet for MR211668

Ccdc40 (BC085159) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Ccdc40
Synonyms:	B930008I02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211668 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGATGCTGAGAAAGTCAGCACGGATGGGGAAGCCATCTCTGAAGGAGAAGTGGGGTCCAATGGAG
AGACTCCCCCAGAAACAGAAGTGGAATTCATTGGAGAGACCGCTCCAGACACAGATGTGGAATTCATTGG
AGAGACCTCCCCAGGAACAGACGTGGAACCCACTGGAGAGAGCATACAGGAAACAGAAGTTGAATCCATC
GGAGAGGCTACCCCAGGAATGGACGTGGAACCCATTAAAAAGACCATGACAAAACTCAACGTTGAATCCA
TCGGAGAAGAAACCTCAGAAACAGACGTGGACTCCATTAGGAAGGCCCTCCGAGGAATAGACTTGGAATC
TATCACAGTTGCCTATCCGCCAAAAAAGGCTAAACACAGAAAGGTCAGACCCCAAGCGGAAGTTGAATCC
ACTGGAAGAGCTGCCCCAGAAGGAGAATTAGAAGTTTCTGACCACGAGAAAGTAGAAGCCCTTCTCGATG
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GGGTGAAGATGACACAAACGTCTCAGCCACATCAACCGACACATTCCAGCAAGGCATATATGAGCCCATA
GAACCCATAGAGCCCACAGAGCCCCCAGAGCCTGCAGAGCCCCCAAAGCCTGCAGAGACCCCAGAGGACA
GCACGGTGAGAGCCCCAGCGCATCCCTATCAAAGAGACTTCCCAATGGGGGCACGACACCGATTCAGACT
GAGCATCATGGGAAGTCTGACTCCCTCGGACACGGACGATCTTCCCCTGGAAACGGACGAGCCGCCTCAG
CAAGAGTCAGTGCAGTCAACTCCCAGAGCCCTTGAAGAAACCCGGATACAGTTCCTAGACCAGGTCCAGA
GCCTCAGCCCGGAGGCCCTGCTCGATAGAGCAACTGAAGGGAGTGATGAAGCAGAGGAGGAAGGCTCCCA
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CGGCAGATGGACAAACTGAAGCTGGACGTCCAAGAGCTGGATGTGGCCACCAAGCAAACCCGAAGCCAGA
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TCCGTCTACAACAAGACCTGCCAGACCGCCAATGAGGAACGAAAGAAGTTGGCCGCCCTGCAGACAGAGG
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CATGAAGCAGGTGGTGAGGAAGACCGAGACGGAGAAGATGCACGCCGAGGTGGAGAAGAAAAAGCAGGAC
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ACTTGTCCCAGGCTGAGGACACCCGGGTCCTCAAGAAAGCAGTGACTGAGGCCATCACAGAGATTGACAC
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CTGCAGAAGAAAGTCAGGGAGATGCACAAGGCCACAGATGACTGCACCAACACCATCTCAGAACTGGAAG
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GCAGGAAGACTACCCCCAGTACCAGGAGGTGCTGCAGAGCATTCAACAGAAGATCGCCACCAAGCTGGAG
ACCCCAGAGCCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211668 protein sequence
Red=Cloning site Green=Tags(s)

MMDAEKVSTDGEAISEGEVGSNGETPPETEVEFIGETAPDTDVEFIGETSPGTDVEPTGESIQETEVESI
GEATPGMDVEPIKKTMTKLNVESIGEETSETDVDSIRKALRGIDLESITVAYPPKKAKHRKVRPQAEVES
TGRAAPEGELEVSDHEKVEALLDELDELSEIVSSPEVSYSDISPLEMGEDDTNVSATSTDTFQQGIYEPI
EPIEPTEPPEPAEPPKPAETPEDSTVRAPAHPYQRDFPMGARHRFRLSIMGSLTPSDTDDLPLETDEPPQ
QESVQSTPRALEETRIQFLDQVQSLSPEALLDRATEGSDEAEEEGSQLIVLDPDHPLMIRFQEALKGYLN
RQMDKLKLDVQELDVATKQTRSQRQELGVNLYGVQQHLARLQMQLEKSHDRHSLVACERRRKEEELQCAR
SVYNKTCQTANEERKKLAALQTEVESLALHLFYMQNIEQDVRDDIQVMKQVVRKTETEKMHAEVEKKKQD
LFVDQLTERSHQLEENIALFEAQYLSQAEDTRVLKKAVTEAITEIDTIAVEKKRILQQWTTSLVGMKHRN
EAYKTVMDALRECQHQVKSTDSEIEVCKKSIMQEEEKNEKLARLLNRAETEATLVQKMTAQCLSKQEALQ
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QLLRKLQKENTNLVTHLSKIDGDIAQATLDITNTNCKIDMHKKKLTEEYNTGVAEAQMTWLRLQQELVQV
THEREEQLVSVDQLKKEVHIMEQKKLRIESKIAHEKKEQKIVSRHMRDLDNDLSKLNMLLDKNRCSSEEL
EQNNIATETEFLRTLKDSERETIQMQEKLMELAEEKATLLNSFMEAEHQIMLWEKKIQLAKEMRSSVDSE
TGQTEIRAMKAEIHRMKVRHGQLLKQQEKMIRDMELAVARRETIVVQAEGQSKIDKKVITKTEFHYQQRE
LQKKVREMHKATDDCTNTISELEETQKFLSSSLQEKQQLLSEMQATTDVLEEEINQLTALKRQNLLEIVT
LQTRGKHLQAAIEGKYVFLHRNSRSQLMERKRLSVRLSQLNKVLSSVQEDYPQYQEVLQSIQQKIATKLE
TPEPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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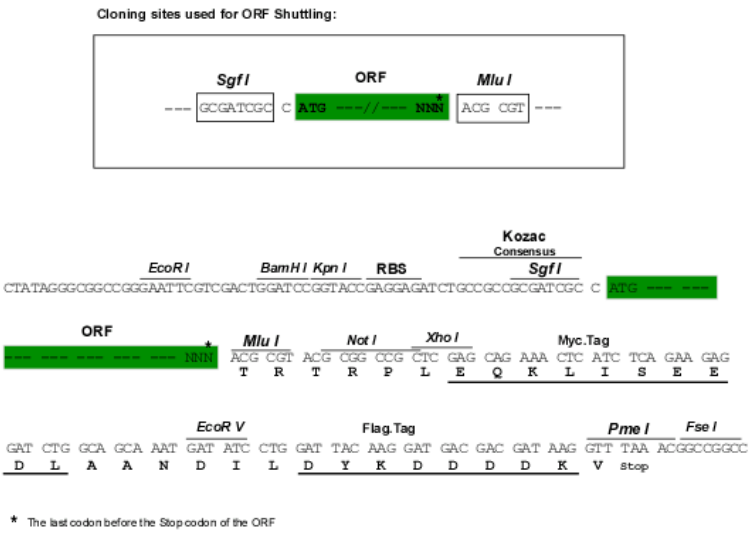
Cloning Scheme:



ACCN: BC085159

ORF Size: 3375 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: BC085159, AAH85159

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RefSeq Size: 4591 bp

RefSeq ORF: 3377 bp

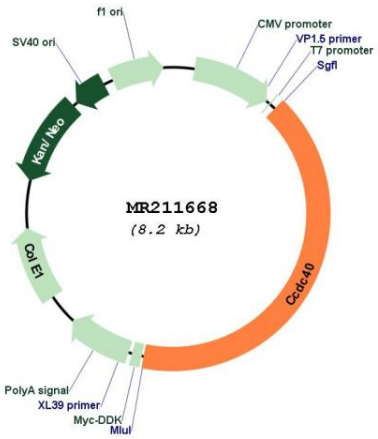
Locus ID: 207607

Cytogenetics: 11 E2

MW: 129 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]

Product images:



Circular map for MR211668

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