OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG211668

Ccdc40 (BC085159) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Ccdc40
Synonyms:	B930008I02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG211668 representing BC085159
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGATGCTGAGAAAGTCAGCACGGATGGGGAAGCCATCTCTGAAGGAGAAGTGGGGTCCAATGGAG
AGACTCCCCCAGAAACAGAAGTGGAATTCATTGGAGAGACCGCTCCAGACACAGATGTGGAATTCATTGG
AGAGACCTCCCCAGGAACAGACGTGGAACCCACTGGAGAGAGCATACAGGAAACAGAAGTTGAATCCATC
GGAGAGGCTACCCCAGGAATGGACGTGGAACCCATTAAAAAGACCATGACAAAACTCAACGTTGAATCCA
TCGGAGAAGAAACCTCAGAAACAGACGTGGACTCCATTAGGAAGGCCCTCCGAGGAATAGACTTGGAATC
TATCACAGTTGCCTATCCGCCAAAAAAGGCTAAACACAGAAAGGTCAGACCCCAAGCGGAAGTTGAATCC
ACTGGAAGAGCTGCCCCAGAAGGAGAATTAGAAGTTTCTGACCACGAGAAAGTAGAAGCCCTTCTCGATG
AGTTGGATGAGCTCTCTGAGATAGTCAGCTCTCCCGAGGTCTCCTACTCTGACATCAGTCCCTTGGAGAT
GGGTGAAGATGACACAAACGTCTCAGCCACATCAACCGACACATTCCAGCAAGGCATATATGAGCCCATA
GAACCCATAGAGCCCACAGAGCCCCCAGAGCCTGCAGAGCCCCCAAAGCCTGCAGAGACCCCAGAGGACA
GCACGGTGAGAGCCCCAGCGCATCCCTATCAAAGAGACTTCCCAATGGGGGCACGACACCGATTCAGACT
GAGCATCATGGGAAGTCTGACTCCCTCGGACACGGACGATCTTCCCCTGGAAACGGACGAGCCGCCTCAG
CAAGAGTCAGTGCAGTCAACTCCCAGAGCCCTTGAAGAAACCCGGATACAGTTCCTAGACCAGGTCCAGA
GCCTCAGCCCGGAGGCCCTGCTCGATAGAGCAACTGAAGGGAGTGATGAAGCAGAGGAGGAAGGCTCCCA
GCTGATCGTGCTGGACCCAGACCATCCTCTGATGATCAGATTCCAGGAGGCTCTGAAGGGCTACCTCAAC
CGGCAGATGGACAAACTGAAGCTGGACGTCCAAGAGCTGGATGTGGCCACCAAGCAAACCCGAAGCCAGA
GGCAGGAGCTGGGCGTGAACCTCTACGGGGTCCAGCAGCACCTGGCCCGCCTGCAGATGCAGCTGGAGAA
GAGCCATGACCGGCACTCTCTGGTGGCCTGTGAGCGGAGAAGGAAGGAGGAGGAGCTGCAATGCGCACGC
TCCGTCTACAACAAGACCTGCCAGACCGCCAATGAGGAACGAAAGAAGTTGGCCGCCCTGCAGACAGAGG
TGGAGAGCCTGGCCCTGCACCTCTTCTACATGCAGAACATAGAGCAGGACGTGCGCGATGACATCCAAGT
CATGAAGCAGGTGGTGAGGAAGACCGAGACGGAGAAGATGCACGCCGAGGTGGAGAAGAAAAAGCAGGAC
CTGTTTGTGGACCAGCTCACCGAAAGGTCACACCAGCTAGAAGAAAACATCGCCCTGTTTGAGGCTCAAT

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

ACTTGTCCCAGGCTGAGGACACCCGGGTCCTCAAGAAAGCAGTGACTGAGGCCATCACAGAGATTGACAC
CATTGCCGTGGAGAAGAAGCGAATCCTACAGCAGTGGACCACCAGCCTAGTGGGCATGAAGCACCGTAAC
GAGGCATACAAGACAGTGATGGATGCGCTCAGGGAGTGTCAGCATCAGGTGAAGTCCACCGACAGTGAGA
TCGAAGTCTGCAAGAAGTCCATCATGCAGGAGGAAGAGAAGAATGAGAAGCTGGCCCGTCTCCTGAACCG
CGCAGAGACAGAAGCCACACTGGTGCAGAAAATGACCGCCCAGTGCTTAAGCAAGCAAGAGGCTCTGCAG
ACGGAGTTTAACACGTACCAGCTCGCCCTGCAGGACACGGAGGAGATGCTGAACAAGGGCTATGTGGAAC
ACTCGGCAGTCTTGAGCGAGCTCCAGGCCACACGCCAGGCTTTCCACCAGGAACAGGAGCTACGGCAAAA
GATGGACATGTCCATGGTGGACAAGCTGCAGGAACAGGGGACCTCCAGCAAGATGACCAAGTACTTTCAT
CAGCTCCTTCGGAAGCTGCAAAAGGAAAACACCAACCTGGTGACACATCTTTCAAAAATTGACGGCGATA
TCGCCCAGGCCACCCTGGACATCACCAACACCAACTGCAAAATAGACATGCATAAGAAGAAGCTGACAGA
AGAGTACAACACGGGAGTGGCTGAGGCGCAGATGACCTGGTTGCGCCTGCAGCAGGAACTGGTCCAGGTC
ACGCATGAGCGCGAGGAGCAGCTGGTGTCCGTGGACCAACTGAAGAAGGAGGTGCACATCATGGAACAAA
AGAAGCTTCGCATAGAGAGCAAGATTGCACATGAGAAGAAGGAACAAAAGATAGTGAGCCGCCACATGAG
GGACCTGGACAACGACCTGAGCAAGCTCAACATGCTGTTGGACAAGAACCGATGCAGTTCGGAAGAGCTG
GAGCAGAACAATATAGCAACTGAGACGGAGTTTCTGCGCACGCTGAAGGACTCAGAAAGAGAGACCATTC
AAATGCAGGAAAAGCTGATGGAACTCGCTGAGGAAAAGGCCACCCTCCTCAACAGCTTCATGGAGGCAGA
GCACCAAATCATGCTGTGGGAGAAGAAAATCCAACTGGCCAAGGAGATGCGCAGCTCGGTGGATTCTGAG
ACCGGGCAGACAGAGATCCGTGCTATGAAGGCCGAGATCCACAGGATGAAGGTTAGGCACGGGCAGCTAC
TGAAGCAGCAGGAGAAGATGATCCGTGACATGGAGTTGGCTGTGGCCCGCAGGGAGACCATCGTCGTCCA
GGCTGAAGGGCAGAGCAAGATAGACAAGAAAGTAATCACCAAGACAGAGTTCCACTACCAGCAGCGCGAG
CTGCAGAAGAAAGTCAGGGAGATGCACAAGGCCACAGATGACTGCACCAACACCATCTCAGAACTGGAAG
AAACTCAAAAGTTCCTAAGCAGCTCCCTCCAGGAGAAGCAGCAACTGCTGTCAGAAATGCAGGCTACCAC
AGATGTTCTTGAAGAGGAGATCAACCAGCTAACAGCTCTCAAACGGCAGAACCTTCTGGAGATCGTGACC
CTGCAGACCCGTGGCAAGCACCTGCAGGCCGCCATTGAGGGGAAATATGTGTTCCTGCACCGCAACAGCA
GGTCCCAGCTGATGGAGCGTAAGCGCCTGAGCGTCCGGCTGTCCCAGCTCAACAAGGTCCTCTCCAGCGT
GCAGGAAGACTACCCCCAGTACCAGGAGGTGCTGCAGAGCATTCAACAGAAGATCGCCACCAAGCTGGAG
ACCCCAGAGCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211668 representing BC085159
Red=Cloning site Green=Tags(s)

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

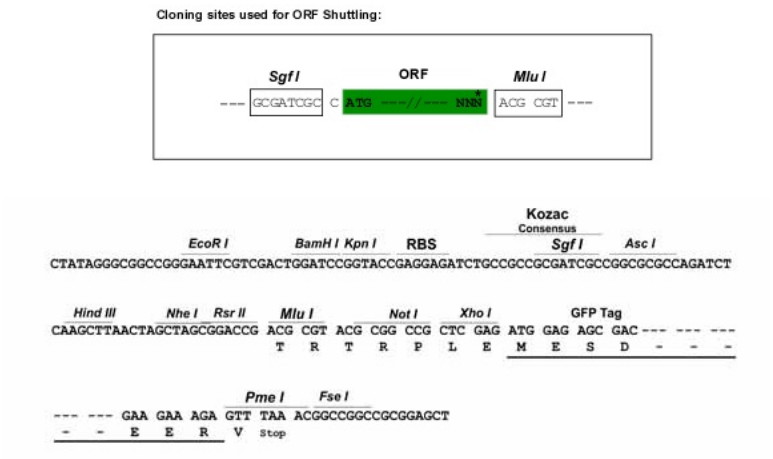
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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:

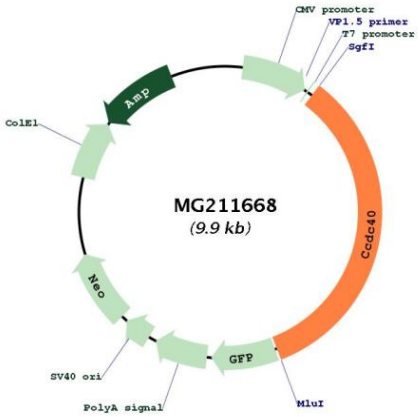
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

RefSeq:	BC085159, AAH85159
RefSeq Size:	4591 bp
RefSeq ORF:	3377 bp
Locus ID:	207607
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]

Product images:



Circular map for MG211668

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US