

Product datasheet for **MR210489**

Ccdc66 (NM_177111) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc66 (NM_177111) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccdc66
Synonyms:	E230015L20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210489 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAACCTGGGAGATGGTTAAAGCTTGAACTGAATTACTGGATGGAAAAACCAAGTTAATACTGTCCC
 CATATGAGCATAAATCAAAAGTTTCTGTGAAGATGGGAAATAAGTTCAAAATTGCAAAATGCCTTTAAG
 AACAAAACAGACTGGACATACTTTAAAAACAACACAAAATACTTACATTGGGAATGAAAACCTTTCTCAA
 AAGAAGATCTCTACTTTAGACACTTCACAAGCAAAACCTGAAAATAGTAGATTGACATTTTCACCCAGTA
 CGGATAAGCAGTATTCAGAAAAAGACAGTGTCCGTGTTCAAAAGGAGATTTACCTACAACCTCTAATAT
 ACGGAAGATTATAAACTACCGGTACTGTCCAGTGGCTAAACAGAAGCCTTGCAAAAAAACCCACA
 GCGGAGACCATGAACAGCGGTTTGGTGTGTCTCACACAAGACCAGCTTCGGCAGATTTTGATGCTGAGTG
 TGAACCAGGGAATGGATCTGTGTGCCTCACTGAGACTGGGGAGGAGGAAGCAAGTCAAGATAGTTTACA
 TTTAATCAATATTCCTAGTCAGCCAAAGGATGTGAATGACACAGGATTCCTGCAAAACACGGAGGCCGCT
 TCCCCTGTACGAGTGAACATGAGCATGTCCACCGGAGAGCTCAAGAGGCATTTACGAGTGTGAGCAGA
 AAGCTGCCACAGAGAATGAATGGAACACAGCTGACATATTCAGTACTCTGGGGGAAAGGGAACGTGATAA
 AAGTTTGTGGAAGCAAGAAGAGCCAGTGGAAGGAGCTAGATGAACAGGTTGCCTTAAAGAAGAAA
 GAGAAAGAAGCTTCCCAAAATGGCATAACCTTGGAAGCCATCTGATATAGAGTGTGAGAAGTCTCAAG
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 AAAATGGATTGAAGAATTGAATAACAAGTTGAAGATGACCAGCAAGAAAAGCAGAGGAAAGAATGATA
 TATTCAAAGGGTGAGGAACATGACAGATGGGCAGTGCATTTTGATTTCATTAAAGAGTCATCCTGGCTCCC
 AGTCTCGACTGTCCTCTCAGTTAACACACCAACACCTGGAGTCCGTTTGTGTCTCCCGACACTCAGGA
 GCTGGCTGATGTCAATGGTGTTTTACACCTCCACCTGGAGTCCAGGCGGAGCCTTCAGAGAAAAGAACAA
 AGAGCCAGACCTGTTCTGGAGATGGCTGTATCACACGGTCCGAAAAACAACCTTTCTCCGTTCTATGACTG
 CACTCTTGGATCCAGCCAGATTGAGGAGCGGGAACGACGCCGACAAAAACAATTAGAACATCAGAAAGC
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 AGCAGAGACAGAGAGAAGAAATCATGACTCTAAAGACAAACGAGCTATTCCACACAATGCAGCGAGCTCA
 GGAGTTGGCAGAGGCTCAAACAGGAGCAGAGGATCAGAGAACTGGCTCAGAAGGGACATGATACATCC
 AGGCTGATTCAAATCTTGGTGACAAGTGGATTATAAGGCATTCATACCATCTCCAGTTCACACAGTG
 ACCCTGAGGAGACTGCTGACACTTCAACAGCCTCTCCCAAGAAGGACACAGGCGTGACAGACAGATGACGT
 AAACCTAGGAATTTTCAATGATGCGCTACCACCTGTGGATCGGTAACAGAGAAGGGTATTAGAAACATT
 TCTTCTCCAGAGATTTCTGCAGAATTCAGTGGACAGACTGACATTAGAAAAGAGAACCAAGAACTAAGTA
 TGAATAAAGGCACTAATTTAGACAAAGAAAACAGCTGGCATAATGGCCAGTGAATCAGTACAGAAGAAC
 AGAGAAACAAACAAACTCATGAAGAAATGTCCTAAGAAGCCTGCTTGAATATAAACAAACCTCTCAAA
 AAGTATGTTCTGCATCAGCCAAGTACCCCGCACATCTCCAGAAGGAGAAAGAGAAAAAAGGTACAG
 AGGCAATGGAGCTGCTTCACTTAGTGGAGAGAAAACAATCCGAGAATCTCTCCAAAACAGAGGCATTT
 CACCATTGCTACATCTCATCGAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210489 protein sequence
Red=Cloning site Green=Tags(s)

MNLGDGLKETELLDGKTKLILSPYEHKSKVSVKMGNKFKIAKPLRTKQTGHTLTKSTQNTYIGNENLSQ
KKISTLDTSQAKPENSRLTFSPSTDKQYSEKDSVRVQKEISPTTSNIRKIINTTGTCPVAKQKPKCKNPT
AETMNSGLVCLTQDQLRQILMLSVNQNGSVCLTETGEEASQDSLHLINIPSQPKDVNDTGFLQNTAA
SPVTSEHEHVHRAQAEAFQCEQKAATENEWKPADIFSTLGERERDKSLLEARRAQWKKELDEQVALKKK
EKEASQKWHNPWKPSDIECKSQVHDQSKEARLLESPCSAIKQEQQRKWIEELNKQVEDDQQRKAEREMI
YSKGEEHDRWAVHFDLSLKHPSGQSRLSSQLTHQHLES�CVSPDTQELADVNGVFTPPPGVQAEPSEKEQ
RARPVLEMAVSHGPKTNFLRSMTALLDPAQIEERERRRQKQLEHQKAIMAQVEENRRKKRLEEEQRKKEE
QELRLRLAREEREEMQRQYEDILKQRQREEIMTLKTNELFHTMQRAQELAQRLKQEQRIRELAQKGHDS
RLIQLNLAGQVYKAFTTISSSHSDPEETADTSTASPKKDTGVQTDYRDELGIFNDALPPCGSVTEKGIRNI
SPEISAEFSGQTDIRKENQELSMNKGTLNDKSNWHQGCNQYRRTEKQTKLKKKCPKKPAWNINKPLK
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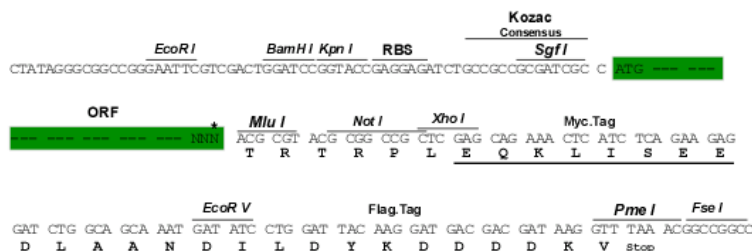
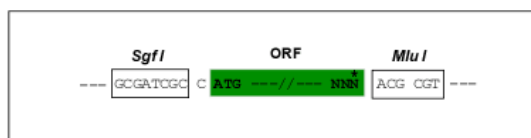
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 177111

ORF Size: 2268 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: [NM_177111.3](#), [NP_796085.3](#)

RefSeq Size: 2951 bp

RefSeq ORF: 2808 bp

Locus ID: 320234

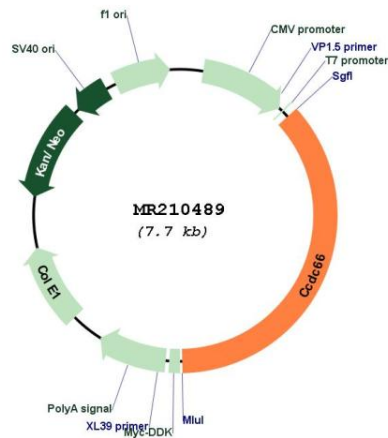
UniProt ID: [Q6NS45](#)

Cytogenetics: 14 A3

MW: 86.4 kDa

Gene Summary: Microtubule-binding protein required for ciliogenesis. May function in ciliogenesis by mediating the transport of proteins like BBS4 to the cilium, but also through the organization of the centriolar satellites (By similarity). Plays a role in retina morphogenesis and/or homeostasis (PubMed:21680557).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210489