

Product datasheet for **RC227074**

CCDC66 (NM_001141947) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC66 (NM_001141947) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCDC66
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC227074 representing NM_001141947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCTGGGAGATGGTTTAAAGCTTGAACTGAATTACTGGATGGAAAAACCAAGCTAATATTGTCTC
 CATATGAACATAAATCAAAAATTTCTGTGAAGATGGGAAATAAGGCCAAGATTGCAAAATGCCTTTAAG
 AACAAAACTGGGCACATTCTAAAATCAACACAAGATACTTGTATTGGGAGTGAAAACTTTTGCAAAAG
 AAGCCAGTTGGTTCAGAAACATCACAGGCAAAAGGTGAAAAAATGGAATGACTTTTTTCACCTAAGG
 ATTTATGTAAACAATGTATAGATAAAGACTGTCTTCATATCCAGAAAGAGATTTACCTGCAACCCCTAA
 TATGCAGAAGACTAGAAACACCGTAAATACATCTCTAGTAGGTAAACAGAAAGCCTCACAAAAACACATC
 ACAGCTGAAAACATGAAGAGCAGTTTGGTGTGTCTAACACAAGACCAACTACAACAGATTTTGATGACTG
 TAAACCAAGGAAATAGATCTCTTCCCTGACTGAGAATGGAAAGGAGGCAAAAGTCAATATAGTCTATA
 TTTAAACAGTATTTCTAATCAGCCAAAGGATGAGAACATTATGGGATTATCAAAAAACTGAAATGGTT
 TCATCTGTCCCAGCTGAAAAATAATCTGTCTTAAATGAACATCAGGAGACATCTAAACAGTGTGAGCAAA
 AAATTGCCATAGAGAATGAATGGAACACAGCTGATATATTCAGTACTCTGGGGGAAAGGGATGTGATAG
 AAGTTCGTTGGAAGCAAAAAAGCCAGTGGAGGAAAGAGCTAGATGAACAGGTTGCTTTAAGAAGAAA
 GAAAAAGAAGTTTCTGAAAAATGGAATGATCCTTGAAAAAATCTGAAAGTGATAAAATAATATGGGAAA
 AACATCAAATCTTGACCAATCTAGGGAACAGTACTGCTGGAGCACCCCTTCAGTGCTGTGAAACAAGA
 ACTGCAAGAAAAATGGATTGAAGAGTTGAATAAGCAAAATAGAAGTAGCCGTCAAAGAAAAATAGAGGAA
 AAAATTATATATTCAAAGGGTGAGGAACATGACAGATGGGCAATGCACTTTGATTCAATTAAGAGTTATC
 CTGGTTCTCAATCTCAGCTGTTCTCTCAGTCAACACACAACCACTGAGTACTTCTGTGTCTCTCCTGA
 CACTCAGGAGCTGGCTGATGTGACGAGTGTGTACACCTACAACCGGAAGCCAGGTTGAACCTTCAGAG
 GAGGAGCATATAGCAAAACCTATTAAGGATGTGGTTATGGCAACAGTAAGAAAACAAACTTTCTCCGTT
 CTATGACTGCTCTCTTGACCCAGCTCAGATTGAGGAACGAGACAGACGACGACAAAAACAATTAGAGCA
 TCAGAAAGCCATCACTGCCAGGTAGAAGAGAAGCGCAGGAAGAAACAACCTGGAGGAAGAGCAAGAAAG
 AAGGAAGAACAAGAAGAGGAGCTTCGCTTAGCACAGGAACGTGAAGAGATGCAGAAACAGTATGAAGAAG
 ACATACTTAAGCAAAAAACAAAGGAAGAAATCATGACTCTCAAGACAAATGAGCTATTCCAGACAATGCA
 GCGAGCACAGGAAGTGGCACAGAGACTAAAACAAGAACAAGAAATCCGAGAATTGGCGCAAAAGGGACAT
 GACACTTCTAGACTGATTAAAAATCTTGGTGTGATACAATACAATGGAATATAATGCATCTAACATTT
 CAAATTCAAGACATGATTCTGATGAAATCAGTGGTAAATGAATACATATATGAATTCTACGACTTCTAA
 GAAGGATACTGGTGTGCAACAGATGACTTAAATATAGGAATATTCACCAATGCAGAATCACATTGTGGA
 TCATTAATGGAGAGGGACATCACAAATTGTTATCTCTGAGATTTCCGCGAGAACTATTGGACAGTTTA
 GCACCAAGAAAAACAAGCAAGAACTAACTCAGGATAAAGGAGCCAGCTTAGAAAAAGAAAAACAATCCGGTG
 TAATGACCAGTGTAAATCAGTTCACAAGAATAGAGAAACAAACAAACACATGAAGAAATATCCTAAAAGG
 CCTGATTGGAATATAAATAAGCCACCTAAAAGGTATATTCCAGCATCAGAAAAAGTACCCTAAACAGCTTC
 AAAAGCAGAGAGAAGAAAAAAGTAAGGAGGCAGATGGAATTGCTTCATTTGGTAGAAAAAATAATCC
 TGGGCACCTCTCTCAAAACAGAGGCATTTACCCAGAAATTTTTCATTCTCATCAAGAAACGGAGTCA
 AAGTTGAGGTGGCATCTAGTCAAAAAGGAAGAAGAGCCTCTGAATATTCATTCTCAGCAAGGAAGGT
 CTCCATCATCACCAAGTTCAGTAGTGAAAAACAGAACCAACAACTCAAAATACATTACATTTACCACT
 AAAAAACAGTAGCTATGAGAGAGAGAAATTTGATCTCAGGAAGTAATCAAACAGAAATTATCATCTGGGATT
 TCTGAATCATCCATTTTATTCCGTATGTTGCAACAAATGAGATCTATTACCTTGATCCCGATGCACCAT
 TGTCTGGGCTTCAACCCAGGACCCTCAGTACCAAAATTCACAAGACTGTGGCAAAAACGACAGCTATT
 TGATTCTGACTGTGTGAGGATCCACTTCTTAATCCTAACATGGTGAAAAATAGGGATCGACAGCAAGCA
 ATCCTTAAGGGACTTTCAGAACTGAGACAGGGCCTTCTCCAGAAGCAAAAGGAGTTGAAAGTAGTCTCC
 TGCCCTTAGCTGAAAATCAAGAAGAGATTTTGGTTCTTCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227074 representing NM_001141947
Red=Cloning site Green=Tags(s)

MNLGDGLKLETELLDGKTKLILSPYEHKSKISVKMGNAKIAKCPLRTKTGHILKSTQDTCIGSEKLLQK
KPVGSETSQAKGEKNGMTFSSTKDLCKQCIDKDLHIQKEISPATPNMQKTRNTVNTSLVGKQKPHKKHI
TAENMKSSLVCLTQDQLQQILMTVNQGNRSLSLTENGKEAKSQYSLYNSISNQPKDENIMGLFKKTEMV
SSVPAENKSVLNEHQETSKQCEQKIAIENKWPADIFSTLGERECDRSSLEAKKAQWRKELDEQVAKKK
EKEVSEKWNPDWKKSESDKIIWEKHQILDQSRETVLLEHPFSAVKQELQRKWIEELNKQIEDDRQRKIEE
KIIYSKGEEHWRWAMHFDLSKSYPGSQSQQLFSQSTHKQPEYFCVSPDTQELADVSSVCTPTTGSQVPESE
EEHIAKPIKDVMANSKKTNFLRSMTALLDPAQIEERDRRRQKQLEHQKAITAQVEEKRRKKQLEEEQRK
KEEQEEELRLAQEREEMQKQYEEDILKQKQKEEIMTLKTNELFQTMQRAQELAQRLKQEQRIRELAQKGH
DTSRLIKNLGVDTIQMEYNASNISNSRHSDEISGKMNTYMNSTTSKKDTGVQTDLDNIGIFTNAESHCG
SLMERDITNCSSPEISAEILIGQFSTKKNQKQELTQDKGASLEKENNRCNDQCNQFTRIEKQTKHMKKYPKR
PDWNINKPPKRYIPASEKYPQLQKQREEKKVRRQMELHLVEKNPGLHSLQNRGISPEIFHSSHQETES
KLRLWHLVKKEEELNIHSFSKERSPPSPVPVKNRTQQTQNTLHLPLKNSSYERENLISGSNQTELSSGI
SESSHIPYVRTNEIYYLDPDAPLSGPSTQDPQYQNSQDCGQKRQLFDSDCVRDPLLNPMMVKNRDRQQA
ILKGLSELRQGLLQKQKELESSLLPLAENQEESEFGSSF

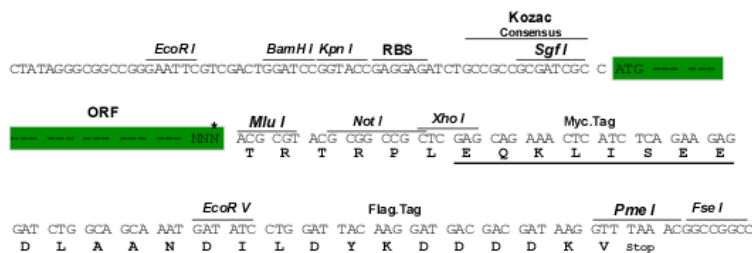
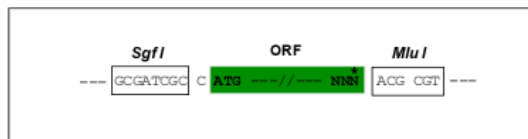
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8033_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

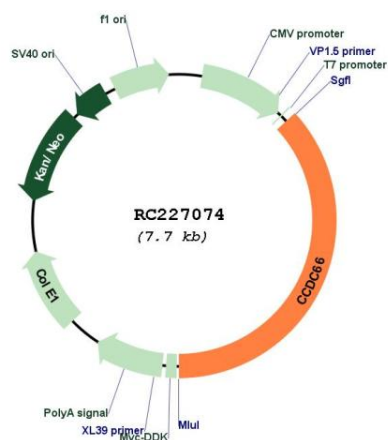


* The last codon before the Stop codon of the ORF

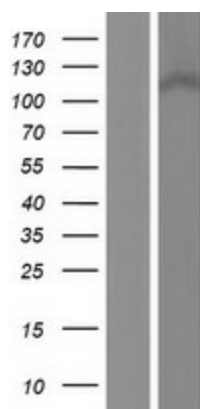
ACCN: NM_001141947

ORF Size:	2844 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_001141947.3
RefSeq ORF:	2847 bp
Locus ID:	285331
UniProt ID:	A2RUB6
Cytogenetics:	3p14.3
MW:	109.2 kDa
Gene Summary:	Microtubule-binding protein required for ciliogenesis (PubMed:28235840). May function in ciliogenesis by mediating the transport of proteins like BBS4 to the cilium, but also through the organization of the centriolar satellites (PubMed:28235840). Plays a role in retina morphogenesis and/or homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227074



Western blot validation of overexpression lysate (Cat# [LY427984]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227074 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).