

Product datasheet for **RC213450**

CCDC41 (CEP83) (NM_016122) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC41 (CEP83) (NM_016122) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCDC41
Synonyms:	CCDC41; NPHP18; NY-REN-58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC213450 representing NM_016122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTTGTGTCAGCACATTTACCGATATGGACACTTTTCCAATAATTTTCTCCTGGTGGAGACAGTGGAT
TGACAGGTTCTCAGTCGAGTTCAGAAAAATGTTAATTGATGAAAGGTTACGATGTGAGCATCATAAAGC
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ACCAGAAGGAAGAGTATGCACGATTTTAGATGAAGGAAAAATAAATATGAATCAGAGATTGCAAGACT
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GAACAACCTGCTCGAGAAAAAGTCTATTTGTGTCAAAAAATTAAGGTTTAGAGGCTGAAGTAGCGGAAT
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AGTCTAATTTTGGTTCTAACATGCCTCCAACAGCATCTATCAATCCTGTTAGCTTTAGTCATCAGCCA
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GAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213450 representing NM_016122
 Red=Cloning site Green=Tags(s)

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MVSTFTDMDTFPNNFPPGGDGLTGSQSEFQKMLIDERLRCEHHKANYQTLKAEHTRLQNEHVKLQNEL
KHLFNEKQTQQEKLQLLLEELRGELVEKTKDLEEMKLQILTPQKLELLRAQIQQELETMPRERFRNLDEE
VEKYRAVYNKLRYEHTFLKSEFEHQKEEYARILDEGKIKYESEIARLEEDKEELRNQLLNVDLTKDSKRV
EQLAREKYYLQKLGLEAEVAELKAEKENSEAQVENAQRIQVRQLAEMQATVRSLEAEKQSANLRAERL
EKELQSSSEQNTFLINKLHKAEREINTLSKVKELKHSNKLEITDIKLETARAKSELERERNKIQSELDG
LQSDNEILKAAVEHHKVLLVEKDRELIRKVQAAKEEGYQKLVVLQDEKLELENRLADLEKMKVEHDVWRQ
SEKDQYEEKLRASQMAEEITRKELQSVRLKLQQQIVTIENAEKEKNENSDLKQQISSLQIQVTSLAQSEN
DLLNSNQMLKEMVERLKQECRNFRSQAQEAQLEAEKTLEEKQIQWLEEKHKLHERITDREKYNQAEKEL
QRAAIAQKKRSLHENLKRLEKVEVLEAKKEELETENQVLRNQVVPFEDYTRLQKRLKDIQRHNEFR
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E
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6487_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

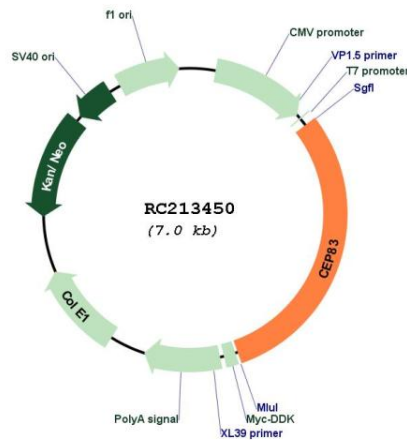
ACCN: NM_016122

ORF Size: 2103 bp

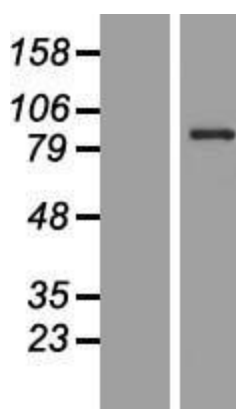
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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:	<u>NM_016122.2, NP_057206.2</u>
RefSeq Size:	3235 bp
RefSeq ORF:	2106 bp
Locus ID:	51134
UniProt ID:	<u>Q9Y592</u>
Cytogenetics:	12q22
Domains:	M
MW:	82.8 kDa
Gene Summary:	The protein encoded by this gene is a centriolar protein involved in primary cilium assembly. Defects in this gene have been associated with infantile nephronophthisis and intellectual disability. [provided by RefSeq, Oct 2016]

Product images:


Circular map for RC213450



Western blot validation of overexpression lysate (Cat# [LY420877]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC219987] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).