

Product datasheet for **RG219987**

CCDC41 (CEP83) (NM_001042399) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CCDC41
Synonyms:	CCDC41; NPHP18; NY-REN-58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG219987 representing NM_001042399
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTGTGTCAGCACATTTACCGATATGGACACTTTTCCAATAATTTCTCCTGGTGGAGACAGTGGAT
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 GCTAAGAGCCCAAATACAACAAGAATTAGAACTCCAATGAGAGAACGTTTTAGGAATCTAGATGAAGAG
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 GAA

ACGCGTACGCGCGCGCTCGAG - GFP Tag - GTTTAA

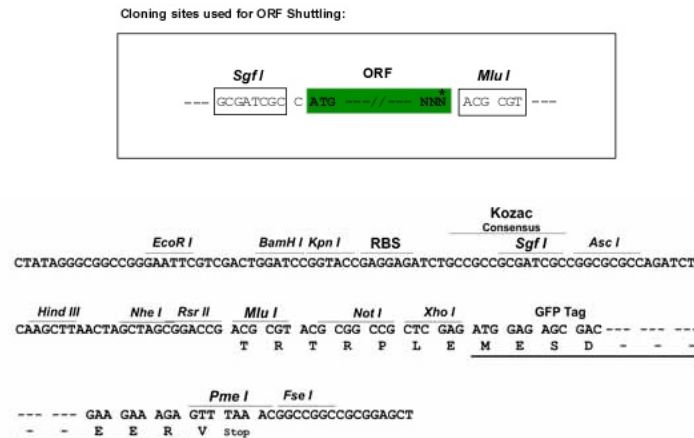
Protein Sequence: >RG219987 representing NM_001042399
 Red=Cloning site Green=Tags(s)

MVVSTFTDMDTFPNNFPPGGDGLTGSQSEFQKMLIDERLRCEHHKANYQTLKAEHTRLQNEHVKLQNEL
 KHLFNEKQTQEKQLLLEELRGELVEKTDLEEMKLQILTPQKLELLRAQIQELETMPMRERFRLDEE
 VEKYRAVYNKLRYEHTFLKSEFEHQKEEYARILDEGKIKYESEIARLEEDKEELRNQLLNVDLTDSKRV
 EQLAREKVYLQKLGLEAEVAELKAEKENSEAQVENAQRIQVRQLAEMQATVRSLEAKQSANLRAERL
 EKELQSSSEQNTFLINKLHKAEREINTLSSKVKELKHSNKLEITDIKLETARAKSELERERNKIQSELDG
 LQSDNEILKAAVEHHKVLVLEKDRLEIRKQAAKEEGYQKLVVLQDEKLELENLADLEKMKVEHDVWRQ
 SEKDQYEEKLRASQMAEEITRKELQSVRLKLQQQIVTIENAEKEKNENSCLKQKQISSLIQVTSLAQSEN
 DLLNSNQMLKEMVERLKQECRNFQSAEKAQLEAEKTELEKQIQWLEEKHLHERITDREKYNQAEKEL
 QRAAIAQKKRSLHENKLRLEKQEVLEAKKEELETENQVLNRQNVFPEDYTRLQKRLKDIQRRHNEFR
 SLILVPNMPPTASINPVSFQSSAMVPSMELPFPFPHMQEEQHRELSSLRKRLEELTTQKQLEELGSSG
 E

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042399

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:

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_001042399.1](#), [NP_001035858.1](#)

RefSeq Size: 3182 bp

RefSeq ORF: 2106 bp

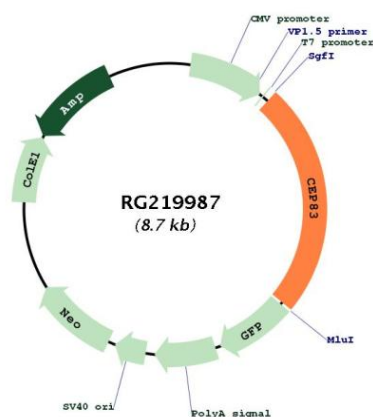
Locus ID: 51134

UniProt ID: [Q9Y592](#)

Cytogenetics: 12q22

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 RG219987