

Product datasheet for **RC234393**

C19orf51 (DNAAF3) (NM_001256715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C19orf51 (DNAAF3) (NM_001256715) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C19orf51
Synonyms:	C19orf51; CILD2; DAB1; PCD; PF22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234393 representing NM_001256715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCACACCTGCCGGCTCCGGCAGCGGCTTCGGCTCCGTGTCCTGGTGGGGCCTGTCCCGGCGCTGG
 ACCTGCAGGCTGAAAGTCTCTGTGGACCCAGACTCCCAGGCCGATACAGTGCACAGCAACCCGAGCT
 AGATGTGCTGCTTCTGGGCTCTGTGGATGGACGGCACCTGCTGCGGACCTGTCCCGAGCGAAGTCTGG
 CCTCGCAGGAGGTTCAACTTCTTTGTGCTGGAGAATAATCTGGAAGCTGTGGCCGACACATGCTGATCT
 TCAGCCTAGCCCTGGAGGAACCGGAGAAGATGGGGCTGCAAGAGCGAAGCGAGACCTTCTGGAAGTGTG
 GGGGAACGCGCTGCTGCGCCCGCAGTGGCCGCTTCGTGCGTCCCAGGCCGACTGCTGGCGCACCTG
 GTCCCGAGCCGACCGCTGGAGGAACAGCTGCCCTGGCTCAGCCTCCGCGCCCTCAAGTTCGCGAGC
 GGGATGCCCTGGAGGCCGATTCGCTTCTGGGCTGGCGGCGAGAAAGGGCCCCAGGCGTTCCTCATGAG
 CCGCCTCTGGGACTCGCGCTGCGCCACTACCTGGGCTCCGCTACGACGCCCGCGCGGTGTCAGCGAC
 TGGGACCTGCGCATGAAGCTGCATGACCGGGGCTCAAGTCATTACCCCCAGGAGTTCGACGCTGGC
 GGGACACAGGCGTCGCTTTGAACTCAGGGACTCCAGCGCTATCATGTGCCAACCCGACCCCTGGCGTC
 CGGTGCGCTCCTGAGTACCGTGGGGAGCGCTGGCAGCGCGGGTACTGGGGGACATCGCCACGGGG
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 GAGAGCCACCGGGGGGACCTGGAGGAGCAGCAGCACGCGGAGGGAAAGCCCGAGCCAGGGACTCCAGCA
 GCCCCGACCCGGAATCTTTCACCGTCCACTTCTGCCGCTCAATTCTGCTCAGACTCTCCACCACAAGA
 GCTGCTACAACGCGGATTCCAGTCTCTATGTGGCCTGTGGTATGGTCCATCTTCTCATCCCTGAGCT
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 GAGCAGCTGCAGGATTCAACACCCGGGTGAGGAGCTAGCTCAGGCAGCTGGATTTGCTCCACAGACCG
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 GAGGGCTGACCCAGCCTCTGCAGGGTGGGACCCACACTGTGAGCCCTGCCAGCTGCCCTCTGAGTCTC
 CAGGTTCACTCTCAGAGTTCTGGCTCAGCCTCAGGGGCTTGGCTCCGCCCACTGTGAGTCAGACTC
 CAAACTGGAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234393 representing NM_001256715
 Red=Cloning site Green=Tags(s)

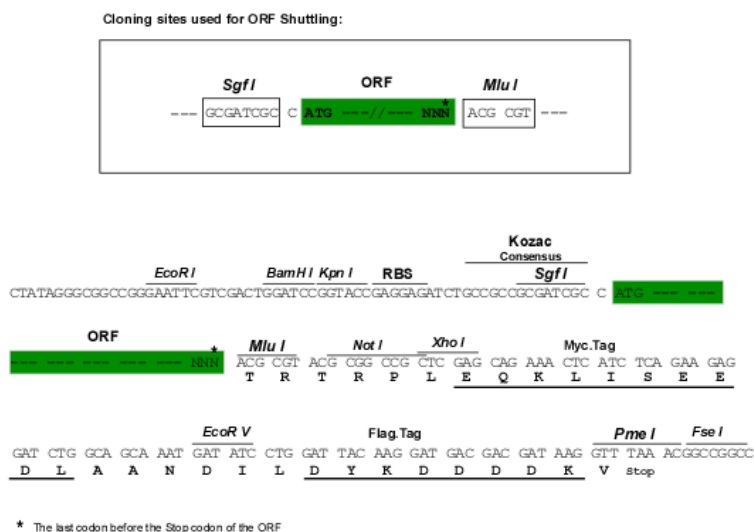
MTPAGSGSGFGSVSWWGLSPALDLQAESPVPDPSQADTVHSNPELDVLLLGSVDGRHLLRRLSRAKFW
 PRRRFNFVLENNLEAVARHMLIFSLALEEPEKMGLQERSETFLEVWGNALLRPPVAAFVRAQADLLAHL
 VPEPDRLEEQLPWLRLKFRERDALEAVFRFWAGGEKGPQAFPMRSLWDSRLRHYLGSRYDARRGVSD
 WDLRMKLHDRGAQVIHPQEFRRWRDGVAFELRDSSAYHVPNRTLASGRLLSYRGERVAARGYWGDIATG
 PFVAFGIEADDESLLRSTNGQPVKTAGEITQHNVTLLRDVAAWGRARATGGDLEEQQHAEGSPEPGTPA
 APTPESFTVHFLPLNSAQTLHHKSCYNGRFQLLYVACGMVHLLIPELGACVAPGGNLIVELARYLVDVRQ
 EQLQGFNTRVRELAQAAGFAPQTGARPSETFARFCKSQESALGNTVPAVEPGTPPLDILAQPLEASNPAL
 EGLTQPLQGGTPHCEPCQLPSESPGSLSEVLAQPQALAPPNCESDSKTGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001256715

ORF Size: 1623 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.

RefSeq: [NM_001256715.2](#)

RefSeq Size: 2231 bp

RefSeq ORF: 1626 bp

Locus ID: 352909

UniProt ID: [Q8N9W5](#)

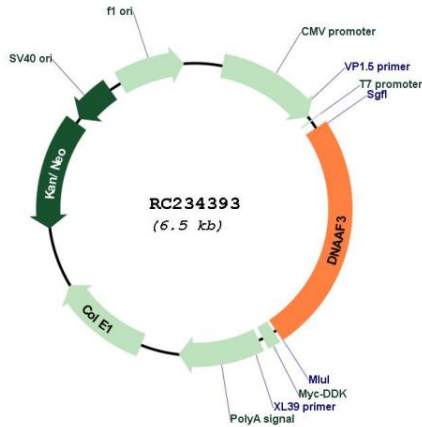
Cytogenetics: 19q13.42

Protein Families: Druggable Genome

MW: 59.9 kDa

Gene Summary: The protein encoded by this gene is required for the assembly of axonemal inner and outer dynein arms and plays a role in assembling dynein complexes for transport into cilia. Defects in this gene are a cause of primary ciliary dyskinesia type 2 (CIL2). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC234393