

## Product datasheet for **RG234393**

### **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:	TurboGFP
Symbol:	C19orf51
Synonyms:	C19orf51; CILD2; DAB1; PCD; PF22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234393 representing NM\_001256715  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCACACCTGCCGGCTCCGGCAGCGGCTTCGGCTCCGTGTCTGGTGGGGCCTGTCCCGCGCTGG  
 ACCTGCAGGCTGAAAGTCTCTGTGGACCCAGACTCCCAGGCCGATACAGTGCACAGCAACCCCGAGT  
 AGATGTGCTGCTTCTGGGCTCTGTGGATGGACGGCACCTGCTGCGGACCTGTCCCGAGCGAAGTCTGG  
 CCTCGCAGGAGGTTCAACTTCTTTGTGCTGGAGAATAATCTGGAAGCTGTGGCCGACACATGCTGATCT  
 TCAGCCTAGCCCTGGAGGAACCGGAGAAGATGGGGCTGCAAGAGCGAAGCGAGACCTTCTGGAAGTGTG  
 GGGGAACGCGCTGCTGCGCCCGCAGTGGCCGCTTCGTGCGTCCCAGGCCGACTGCTGGCGCACCTG  
 GTCCCGAGCCGACCGCTGGAGGAACAGCTGCCCTGGCTCAGCCTCCGCGCCCTCAAGTTCGCGGAGC  
 GGGATGCCCTGGAGGCCGATTCGCTTCTGGGCTGGCGGCGAGAAAGGGCCCCAGGCGTTCGCCATGAG  
 CCGCCTCTGGGACTCGCGCTGCCACTACTGGGCTCCGCTACGACGCCCGCGCGGTGTCAGCGAC  
 TGGGACCTGCGCATGAAGCTGCATGACCGGGGCTCAAGTCAATCACCCCGAGGAGTCCGACGCTGGC  
 GGGACACAGGCGTCGCTTTGAACTCAGGGACTCCAGCGCTATCATGTGCCAACCCGGACCTGGCGTC  
 CGGTGCGCTCCTGAGTACCGTGGGAGCGCGTGGCAGCGCGGGTACTGGGGGACATCGCCACGGGG  
 CCCTTCGTGGCCTTCGGCATCGAAGCGGACGACGAGAGCCTCTGCGGACGAGCAACGGCCAGCCAGTCA  
 AGACGGCCGGGGAGATCACTCAACACAACGTGACGGAGCTGCTCCGCGACGTGGCCGCTGGGGGCGCGC  
 GAGAGCCACCGGGGGGACCTGGAGGAGCAGCAGCAGCGGAGGGAAAGCCCGAGCCAGGGACTCCAGCA  
 GCCCGACCCCGAATCTTTCACCGTCCACTTCTGCCGCTCAATTCTGCTCAGACTCTCCACCACAAGA  
 GCTGCTACAACGGCCGATTCCAGTCTCTATGTGGCTGTGGTATGGTCCATCTTCTCATCCCTGAGCT  
 TGGGGCCTGTGTGGCACCCGGAGGGAACCTTGATTGTGGAATTAGCCCGGTACCTGGTGGACGTGCGGCG  
 GAGCAGCTGCAGGATTCAACACCCGGGTGAGGAGCTAGCTCAGGCAGCTGGATTTGCTCCACAGACCG  
 GGGCCAGGCTTCAGAGACCTTCGCACGTTTCTGCAAGTCCCAGGAATCAGCTCTGGGCAACACTGTCCC  
 AGCTGTGGAACCCGGAATCCGCCCCTTGACATCTGGCCAGCCTCTTGAAGCCAGCAACCCAGCCCTT  
 GAGGGCTGACCCAGCCTCTGCAGGGTGGGACCCACACTGTGAGCCCTGCCAGCTGCCCTCTGAGTCTC  
 CAGGTTCACTCTCAGAGTTCTGGCTCAGCCTCAGGGGCTTGGCTCCGCCCACTGTGAGTCAGACTC  
 CAAAACCTGGAGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234393 representing NM\_001256715  
 Red=Cloning site Green=Tags(s)

MTTPAGSGSGFGSVSWWGLSPALDLQAESPPVDPDSQADTVHSNPELDVLLLGSVDGRHLLRRLSRAKFW  
 PRRRRFNFFVLENNLEAVARHMLIFSLALEPEKMGQLQERSETFLEVWGNALLRPPVAAFVRAQADLLAHL  
 VPEPDRLEEQLPWLSLRALKFRERDALEAVFRFWAGGEKGPQAFPMRSRLWDSRLRHYLGSRYDARRGVSD  
 WDLRMKLHDRGAQVIHPQEFRRWRDTGVAFELRDSSAYHVPNRTLASGRLLSYRGERVAARGYWGDIATG  
 PFVAFGIEADDESLLRSTNGQPVKTAGETITQHNVTPELLRDVAAWGRARATGGDLEEQQHAEGSPEPGTPA  
 APTPESFTVHFLPLNSAQLHHKSCYNGRFQLLYVACGMVHLLIPELGACVAPGGNLIVELARYLVDVRQ  
 EQLQGFNTRVRELAQAAGFAPQTGARPSETFARFCKSQESALGNTVPAVEPGTPLDILAQPLEASNPAL  
 EGLTQPLQGGTPHCEPCQLPSESPGSLSEVLAQPQALAPPNCESDSKTGV

**TRTRPLE** - GFP Tag - V

**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

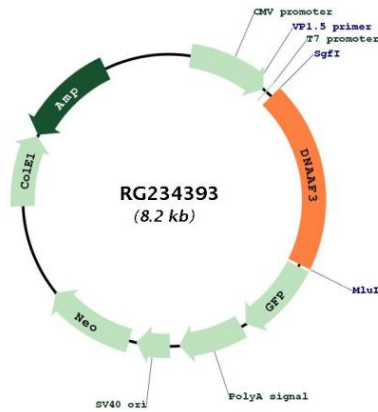
**UniProt ID:** [Q8N9W5](#)

**Cytogenetics:** 19q13.42

**Protein Families:** Druggable Genome

**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 RG234393