

## Product datasheet for **RG234555**

### **C19orf51 (DNAAF3) (NM\_001256714) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C19orf51 (DNAAF3) (NM_001256714) 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:**

>RG234555 representing NM\_001256714  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTTCCATTGCTTGATTCCTCGAAAAGGGCGGGACTCTGGCAGCGTTGTGGAGTGCCCGGGTCC  
 ACAGTGCTGCACTGAGCAGAGAGGAAGGGCGTCCCAGGATATTTGGAGATAAAGGTGTGGCAAGGGT  
 GATGACCACACCTGCCGGCTCCGGCAGCGGCTTCGGCTCCGTGTCTGGTGGGGCTGTCCCCGGCGCTG  
 GACCTGCAGGCTGAAAGGGATGCTACGGTGGACGCTCTGCCAACCACCATGGTCCCCAGCCAGCTGTCA  
 TCTTGCCAGGCTCCTGTGGACCCAGACTCCCAGGCCGATACAGTGCACAGCAACCCCGAGCTAGATGT  
 GCTGCTTCTGGGCTCTGTGGATGGACGGCACCTGCTGCGGACCCTGTCCCAGCGAAGTTCTGGCCTCGC  
 AGGAGGTTCAACTTCTTTGTGCTGGAGAATAATCTGGAAGCTGTGGCCGACACATGCTGATCTTACGCC  
 TAGCCCTGGAGGAACCGGAGAAGATGGGGCTGCAAGAGCGAAGCGAGACCTTCTGGAAGTGTGGGGAA  
 CGCGCTGTGCGCCGCCAGTGGCCGCTTCGTGCGTGCCAGGCCGACCTGCTGGCGCACCTGGTCCCC  
 GAGCCCGACCGCCTGGAGGAACAGCTGCCTGGCTCAGCCTCCGCGCCCTCAAGTCCCGCAGCGGGATG  
 CCCTGGAGGCCGATTCCGCTTCTGGGCTGGCGCGGAGAAAGGGCCCCAGCGGTTCCCATGAGCCGCT  
 CTGGGACTCGCGCCTGCGCCACTACCTGGGCTCCCCTACGACGCCCGGCGCGGTGTACGCGACTGGGAC  
 CTGCGCATGAAGTGCATGACCGCGGGGCTCAAGTCAATCACCCAGGAGTTCGACGCTGGCGGGACA  
 CAGGCGTGCCTTTGAATCAGGACTCCAGCGCCTATCATGTGCCAACCGGACCTGGCGTCCGGTGC  
 CCTCTGAGCTACCGTGGGAGCGCGTGGCAGCGCGCGGACTGGGGGACATCGCCACGGGGCCCTTC  
 GTGGCCTTCGGCATCGAAGCGGACGACGAGAGCCTCCTGCGGACGAGCAACGGCCAGCCAGTCAAGACGG  
 CCGGGGAGACTCAACACAACGTGACGGAGCTGCTCCGCGACTGGCCGCTGGGGGCGCGCGAGAGC  
 CACCGGGGGGACCTGGAGGAGCAGCAGCACGCGGAGGGAAGCCCGGAGCCAGGGACTCCAGCCCGACC  
 CCGGAATCTTCCAGTCCACTTCTGCGCTCAATTCTGCTCAGACTCTCCACCACAAGAGCTGTACA  
 ACGGCCGATTCCAGTCTCTATGTGGCCTGTGGTATGGTCCATCTTCTCATCCCTGAGCTTGGGCCTG  
 TGTGGCACCCGGAGGAACTTGATTGTGGAATTAGCCCGTACCTGGTGGACGTGCGGCAGGAGCAGCTG  
 CAGGGATTCAACACCCGGGTGAGGAGCTAGCTCAGGCAGCTGGATTTGCTCCACAGACCCGGGCCAGGC  
 CTTCAGAGACCTTCGCACGTTTCTGCAAGTCCCAGGAATCAGCTCTGGGCAACACTGTCCAGCTGTGGA  
 ACCCGAACTCCGCCCTTGACATCCTGGCCAGCCTCTTGAAGCCAGCAACCCAGCCCTTGAGGGCCTG  
 ACCCAGCCTCTGCAGGTTGGGACCCACACTGTGAGCCCTGCCAGCTGCCCTCTGAGTCTCCAGGTTAC  
 TCTCAGAGGTTCTGGCTCAGCCTCAGGGGCTTGGCTCCGCCCAACTGTGAGTCAGACTCCAAACTGG  
 AGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234555 representing NM\_001256714  
 Red=Cloning site Green=Tags(s)

MLPLLDSSKRAGTLGSGCGVPRVHSAALSREEGASRDIWRKIVWARVMTTPAGSGSGFGSVSWGLSPAL  
 DLQAERDATVDALPTTMVPQPAVILPGPPVDPDSQADTVHSNPELDVLLLSVDGRHLLRTL SRAKFWRP  
 RRFNFFVLENNLEAVARHMLIFSLALEEPEKMGLQERSETFLEVWGNALLRPPVAAFVRAQADLLAHLVP  
 EPDRLEEQLPWL SLRALKFRERDALEAVFRFWAGGEKGPQAFPM SRLWDSRLRHYLGSRYDARRGVSDWD  
 LRMKLDHARGAQVIHPQEFRRWRDTGVAFELRDSSAYHVPNRTLASGRLLSYRGERVAARGYWGDIATGPF  
 VAFGIEADDESLLRTSNGQPVKTAGETITQHNVTPELLRDVAAWGRARATGGDLEEQQHAEGSPEPGTPAPT  
 PESFTVHFLPLNSAQTLLHHKSCYNGRFQLLYVACGMVHLLIPELGACVAPGGNLI VELARYLVQVDRQEQ  
 QGFNTRVRELAQAAGFAPQTGARPSETFARFCKSQESALGNTVPVAVPGTTPPLDILAQPLEASNPAL EGL  
 TQPLQGGTPHCEPCQLPSESPGSLSEVLAQPQALAPPNCESDSKTGV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256714

**ORF Size:** 1824 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\\_001256714.1](#), [NP\\_001243643.1](#)

**RefSeq Size:** 2302 bp

**RefSeq ORF:** 1827 bp

**Locus ID:** 352909

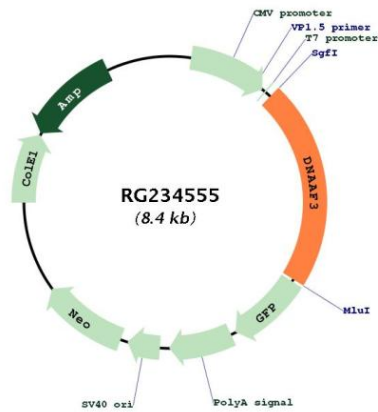
**UniProt ID:** [Q8N9W5](#)

**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 RG234555