

## Product datasheet for **SC307228**

### **C19orf51 (DNAAF3) (NM\_178837) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C19orf51 (DNAAF3) (NM_178837) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNAAF3
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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**Fully Sequenced ORF:** >SC307228 representing NM\_178837.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTTCCATTGCTTGATTCTCGAAAAGGGCGGGACTCTGGCAGCGTTGTGGAGTGCCCGGGTC
CACAGTGTGACTGAGCAGAGAGGAAGGGCGTCCCGGATATTGGAGATAAAGGTGTGGCAAGG
GTGATGACCACACTGCCGGCTCCGGCAGCGGCTTCGGCTCCGTGTCTGGTGGGCCTGTCCCGGCG
CTGGACCTGCAGGCTGAAAGTCCTCTGTGGACCCAGACTCCCAGGCCGATACAGTGCACAGCAACCC
GAGCTAGATGTGCTGCTTCTGGGCTCTGTGGATGGACGGCACCTGCTGCGGACCTGTCCCGAGCGAAG
TTCTGGCCTCGCAGGAGTTCAACTTCTTTGTGCTGGAGAATAATCTGGAAGCTGTGGCCGACACATG
CTGATCTTCAGCCTAGCCCTGGAGGAACCGGAGAAGATGGGGCTGCAAGAGCGAAGCGAGACCTTCTG
GAAGTGTGGGGAACGCGCTGCTGCGCCCGCCAGTGGCCGCTTCGTGCTGCCAGGCCGACTGCTG
GCGCACCTGGTCCCGAGCCGACCGCTGGAGGAACAGCTGCCCTGGCTCAGCCTCCGCGCCCTCAAG
TTCCGCGAGCGGGATGCCCTGGAGGCCGATTCCGCTTCTGGGCTGGCGGCGAGAAGGGCCCCAGGCG
TTCCCATGAGCCGCTCTGGGACTCGCGCTGCGCCACTACCTGGGCTCCCGCTACGACGCCCGGCGC
GGTGTGACGACTGGGACCTGCGCATGAAGCTGCATGACCGCGGGGCTCAAGTATTACCCCCAGGAG
TTCCGACGCTGGCGGGACACAGGCGTCCGCTTTGAACTCAGGGACTCCAGCGCTATCATGTGCCAAC
CGGACCTGGCGTCCGGTCCGCTCTGAGCTACCGTGGGAGCGCGTGGCAGCGCGGGTACTGGGGG
GACATCGCCACGGGGCCCTTCGTGGCTTCGGCATCGAAGCGGACGACGAGACCTCCTGCGGACGAGC
AACGGCCAGCCAGTCAAGACGGCCGGGAGATCACTCAACACAACGTGACGGAGCTGCTCCGCGACGTG
GCCGCTGGGGGCGCGGAGAGCCACCGGGGGGACCTGGAGGAGCAGCAGCAGCGGAGGGAAGCCG
GAGCCAGGACTCCAGCAGCCCCGACCCGGAATCTTTACCGTCCACTTCTGCGCGCTCAATTCTGCT
CAGACTCTCACCAAGAGCTGCTACAACGGCCGATTCCAGCTCCTCTATGTGGCTGTGGTATGGTC
CATCTTCTCATCCCTGAGCTTGGGGCTGTGTGGCACCCGGAGGAACTTGATTGTGAATTAGCCCGG
TACCTGTTGGACGTGCGGACGAGCAGCTGACGGATTCAACACCCGGGTGAGGAGCTAGCTCAGGCA
GCTGGATTGCTCCACAGACCGGGCCAGGCTTCAGAGACCTTCGCACGTTTCTGCAAGTCCCAGGAA
TCAGCTCTGGCAACACTGTCCAGCTGTGAACCCGGAACCTCCGCCCTTGACATCCTGGCCAGCCT
CTTGAAGCCAGCAACCCAGCCCTGAGGGCTGACCCAGCCTCTGCAGGGTGGGACCCACACTGTGAG
CCCTGCCAGTGCCTCTGAGTCTCCAGGTTCACTCTCAGAGTTCTGGCTCAGCCTCAGGGGCGCTG
GCTCCGCCAACTGTGAGTCAGACTCAAAACCTGGAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM\_178837
- Insert Size:** 1767 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_178837.4](#)

**RefSeq Size:** 2242 bp

**RefSeq ORF:** 1767 bp

**Locus ID:** 352909

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

**Cytogenetics:** 19q13.42

**Protein Families:** Druggable Genome

**MW:** 64.5 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 (CILD2). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.