

Product datasheet for **RG223043**

C19orf51 (DNAAF3) (NM_178837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C19orf51 (DNAAF3) (NM_178837) 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:

>RG223043 representing NM_178837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTTCCATTGCTTGTATTCCTCGAAAAGGGCGGGACTCTGGCAGCGTTGTGGAGTGCCCGGGTCC
 ACAGTGTGCACTGAGCAGAGAGGAAGGGCGTCCCGGATATTTGGAGATAAAGGTGTGGCAAGGGT
 GATGACCACACCTGCCGGCTCCGGCAGCGGCTTCGGCTCCGTGTCTGGTGGGGCTGTCCCGGCGCTG
 GACCTGCAGGCTGAAAGTCTCTGTGGACCCAGACTCCAGGCCGATACAGTGCACAGCAACCCCGAGC
 TAGATGTGCTGCTTCTGGGCTCTGTGGATGGACGGCACCTGTGCGGACCCTGTCCCGAGCGAAGTTCTG
 GCCTCGCAGGAGTTCAACTTCTTTGTGCTGGAGAATAATCTGGAAGCTGTGGCCCGACACATGCTGATC
 TTCAGCCTAGCCCTGGAGGAACCGGAGAAGATGGGGCTGCAAGAGCGAAGCGAGACCTTCTGGAAGTGT
 GGGGAACCGCTGCTGCGCCCGCAGTGGCCGCTTCGTGCGTCCCAGGCCACTGTGGCGCACCT
 GGTCCCGAGCCGACCGCTGGAGGAACAGCTGCCCTGGCTCAGCTCCGCGCCCTCAAGTTCCGCGAG
 CGGGATGCCCTGGAGGCCGATTCGCTTCTGGCTGGCGGCGAGAAAGGGCCCCAGGCGTTCCCATGA
 GCCGCTCTGGGACTCGCGCTGCGCCACTACCTGGGCTCCCGCTACGACGCCCGCGCGGTGTACGCGA
 CTGGGACTGCGCATGAAGCTGCATGACCGCGGGCTCAAGTCATTACCCCCAGGAGTTCGACGCTGG
 CGGACACAGGCGTGCCTTTGAACTCAGGGACTCCAGCGCCTATCATGTGCCAACCGGACCCTGGCGT
 CCGGTGCGCTCTGAGCTACCGTGGGAGCGCGTGGCAGCGCGCGGGTACTGGGGGACATCGCCACGGG
 GCCCTTCGTGGCCTTCGGCATCGAAGCGGACGACGAGAGCCTCCTGCGGACGAGCAACGGCCAGCCAGTC
 AAGACGGCCGGGAGATCACTCAACACAACGTGACGGAGCTGCTCCGCGACGTGGCCGCTGGGGGCGCG
 CGAGAGCCACCGGGGGGACCTGGAGGAGCAGCAGCAGCGGAGGGAAGCCCGGAGCCAGGACTCCAGC
 AGCCCCGACCCCGAATCTTTCACCGTCCACTTCTGCGCTCAATTCTGCTCAGACTCTCACCACAAG
 AGCTGCTACAACGGCCGATTCCAGCTCCTATGTGGCCTGTGGTATGGTCCATTTCTCATCCCTGAGC
 TTGGGGCTGTGTGGCACCCGGAGGGAAGTTGATTGTGGAATTAGCCCGTACTGGTGGACGTGCGGCA
 GGAGCAGCTGCAGGGATTCAACACCCGGTTCAGGGAGTAGCTCAGGCAGCTGGATTTGCTCCACAGACC
 GGGCCAGGCCTTCAGAGACCTTCGCACGTTTCTGCAAGTCCCAGGAATCAGCTCTGGGCAACACTGTCC
 CAGCTGTGAACCCGGAAGTCCGCCCTTGACATCCTGGCCAGCCTCTGAAGCCAGCAACCCAGCCCT
 TGAGGGCCTGACCCAGCCTCTGCAGGGTGGACCCACACTGTGAGCCCTGCCAGCTGCCCTCTGAGTCT
 CCAGTTCACTCTCAGAGTTCTGGCTCAGCCTCAGGGGCTTGCTCCGCCAACTGTGAGTCAGACT
 CAAAACCTGGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223043 representing NM_178837
 Red=Cloning site Green=Tags(s)

MLPLLDSSKRAGTLGSGCGVPRVHSAALSREEGASRDIWRKIVWARVMTTPAGSGSGFGSVSWWGLSPAL
 DLQAESPVPDPSQADTVHSNPELDVLLLGSVDGRHLLRTL SRAKFWPRRRFNFFVLENNLEAVARHMLI
 FSLALEEPEKMLQERSETFLEVWGNALLRPPVAAFVRAQADLLAHLVPEPDRLEEQLPWL SLRALKFRE
 RDALEAVFRFWAGGEKGPQAFPM SRLWDSRLRHYLGSRYDARRGVSDWDLRMKLDH RGAQVIHPQEFRRW
 RDTGVAFELRDSSAYHVPNRTLASGRLLSYRGERVAARGYWGDIATGPFVAFGIEADDESLLRTSNGQPV
 KTAGEITQHNVTPELLRDVAAWGRARATGGDLEEQQHAEGSPEPGTPAAPTPE SFTVHFLPLNSAQT LHHK
 SCYNGRFQLLYVACGMVHLLIPELGACVAPGGNLIVELARYLVDVRQEQLQGFNTRVRELAQAAGFAPQT
 GARPSETFARFCKSQESALGNTVPAVEPGTPPLDILAQPLEASNPAL EGLTQPLQGGTPHCEPCQLPSES
 PGSLSEVLAQPQ GALAPPNCESDSKTGV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178837

ORF Size: 1764 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_178837.4](#), [NP_849159.2](#)

RefSeq Size: 2210 bp

RefSeq ORF: 1767 bp

Locus ID: 352909

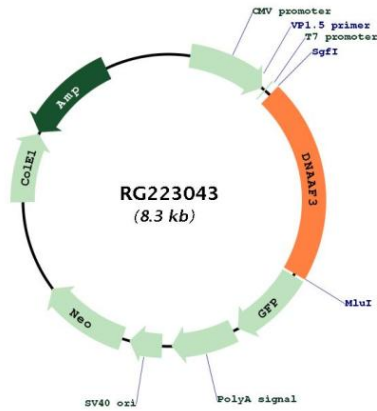
UniProt ID: [Q8N9W5](#)

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 (CILD2). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RG223043