

Product datasheet for **RG214116**

C14orf104 (DNAAF2) (NM_001083908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf104 (DNAAF2) (NM_001083908) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C14orf104
Synonyms:	C14orf104; CILD10; KTU; PF13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG214116 representing NM_001083908
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCAAAGCGCGGCCTCCTCGTCGCTGGAGGACTTGGACCTGAGCGGAGAGGAGGTCCAGCGGCTCA
 CCTCCGCCCTTCCAGGACCGGAGTTCCGGCGAATGTTCTCCAGTACGCCGAGGAGCTCACCGACCCGGA
 GAACCGCGCGCGCTACGAGGCGGAGATCACCGCCTAGAGCGTGAGCGCGGGGTGGAAGTCCGGTTCGTG
 CACCCGGAGCCCGGCATGTGCTGCGCACCAGCCTGGACGGGCGCGCGCTGCTTTGTGAATGTCTGCA
 GCAACGCGTTGGTGGGCGCGCCAGCAGCCGGCCCGCTCCGGTGGCGACCGGGGCGCAGCTCCTGGCAG
 CCACTGGTCCCTGCCCTACAGCCTGGCGCCCGCCGCGAGTACGCGGGGCGCAGCAGCAGCCGTACATG
 GTCTACGACGTGGTCTTCCATCCAGACGCGCTTGGCTGGCCCGCGGCACGAGGGCTTCCGCCAGATGC
 TGGACGCCACGGCCCTGGAGGCCGTGAGAAGCAGTTCCGCGTGAAGCTGGACCGCAGGAATGCCAAGAC
 CCTGAAGCCAAAGTATAAGGGGACCCAGAGGCTGCGGTGCTGCGCACGCCCTGCCCGGGTCAATCCC
 GCAAGGCTGACGGGGAGCCGAAGGGTCTCTCCCGACTTCCCTACCTTACCACTACCGGGCAGCCC
 CCGGGCCCGGGCGCCCTCCCTCCGGAAGCGGCTTGCAGCCCGCCCCACCGAGCCTCGCTACAGCGT
 GGTGCAGCGCCACCACGTGGACCTCCAGGATTACCGCTGCTCCAGGGACTCAGCCCCGAGCCCCGTGCC
 CATGAGCTGGTGATCACCATCGAAGTCCGCTGTTGCGCTCGGCCGAGCAGGCGCGCTGGAGGTAACGA
 GAAAGCTGCTGTGCCTCGACTCGAGGAACTGACTACCGGCTGCGGCTCTCGCTCCCGTACCACTGGA
 CGATGGCCGCGGCAAGGCACAATTCAACAAGGCCCGCGGCAGCTGGTGGTTACGCTGCCAGTGGTGCTG
 CCGGCCGCGCGCCGGGAGCCCGCTGTGCGCTGCGCGCCCGCGCCGGAAGAGTCCGCGGACCGGTCCG
 GAACTGACGGCCAGGCCCTGCGCTTCCGCTCGCGAGGGGAGGCGGGGACCCGCGAGGAGTCCGCGGAGGA
 CGGAGGCCACGATACCTGCGTGGCTGGGGCTGCGGGCTCCGGGGTCAACACCTGGGCGACCCGGAGGTG
 GCGCCTCCGCGCGCCGAGCTGGAGAGGAGCGTGTCCCAAGCCGGGGAGCAGGACTTGAGCAGGCACG
 CGGGGTACCGCGCGGCAGCGTGGAGGAGCCATCTCTGGAGGAGAAAACCTCACCTGGTGGCGGAGGCTC
 CCCTTGTGTCTCCCGGAGCCTGGCGTGGGTTCTTCTGCGGGAAGAGAGAGTGCAGCGGAGATAGC
 AGTGTGGAACACGCGAGGAGTCGGAGGGCAGGGCGGCCAGCGCTCAGCCTGCGCCATGGGTGGTCCCG
 GGACCAAGAGCGGGGAGCCTTTGTGTCTCCGTTACTGTGTAATCAGGACAAAGAACTTGACTCTGCT
 CATTCAAGTGCCTCGGATCCAGCCGAAAGTCTTCAAGGAGATTTGAATCCCTCTGGTACAAATTACGC
 TTCTCCGCACAAGACTTAGTTTATCTCTCTTTTGAATTTGCTCCAGAGAATAAATTGAGTACCACAG
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 TTGGAGAGAGTGGTATTATGGTGTAAACAACGATTCTTTGGAGTTGCAAGAATGTAGTAACCTCTGATCAG
 CTACAAGGAAAGGAGGAAAGAGTAAATGAAGAAAGTCACTAACTGAAAAGGAATATATAGAACATTGTA
 ACACCCCTACAAGTATTCTGATTCATCTATAGCAGTTAAAGCACTACAAATAGATAGCTTTGGTTTGTG
 TACATGCTTTCAACAAGAGTCTCTTGTGTTTCTCAAATGATACTTGAAAAATCTCAGCAACCTGAGTCA
 AAAATGCAATCTGAATTTATAAAGAAAAAAGTGTACTTGTTCAAATGAGGAAAAAGATAAATTAAACG
 AGTCAGTAATAACTGAAGAGAAAGAAACAGATGGAGATCACCTATCTTCATTACTGAACAAAACACGGT
 TCACAATATACCTGGATTCGACAGCATAAAGAAACCAATATGCAGGATGGTAGTGTGCAGGTCATTAA
 GATCATGTGACCAATTGTGCATTAGTTTTCAGAATTTCTTGTATATGATTTGGAT

AC**GGGCCG**CTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214116 representing NM_001083908
 Red=Cloning site Green=Tags(s)

MAKAAASSSLEDLDL SGEEVQRLTSAFQDPEFRMF SQYAEELDPENRRRYEAEITALERERGVEVRFV
 HPEPGHVLRTSLDGARRCFVNVCSNALVGAPSSRPGSGGDRGAAPGSHWSLPYSLAPGREYAGRSSSRYM
 VYDVVFHPDALALARRHEGFRQMLDATALEAVEKQFGVKLDRRNAKTLKAKYKGTPEAAVLRTPLPGVIP
 ARPDGEPKGPLPDFPYQYPAAPGPRAPSPPEAALQPAPTEPRYSVVQRHHVDLQDYRCSRDSAPSPVP
 HELVITIELPLLSAEQAALVTRKLLCLDSRKPDYRLRLSLPYVDDGRGKAQFNKARRQLVVTLPVVL
 PAARREPAVAVAAAAPEESADRSRGTDGQACASAREGEAGPARSRAEDGGHDTCVAGAAGSGVTTLGDPEV
 APPPAAAGEERVPKPGEQDL SRHAGSPPGSVEEPSPGGENSPGGGGSPCLSSRSLAWGSSAGRESARGDS
 SVETREESEGTGGQRSACAMGGPGTKSGEPLCPPLL CNQDKETL TLLIQVPRIQPQLQGDNLPLWYKLR
 FSAQDLVYSFFLQFAPENKLSTTEPVISISSNNAVIELAKSPESHGHWREWYGVNNDLSLELQECNSDQ
 LQKKEERVNEESHLTEKEYIEHCNTPPTDSDSSIIVKALQIDSFGLVTCFQQESLDVSMILGKSQQPES
 KMQSEFIKEKSATCSNEEKDNLNESVITEEKETDGDHLSLLNKTTVHNIPGFDSEKETNMQDGSVQVIK
 DHVTNCAFSFQNSLLYDL

TRPLE - GFP Tag - V

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_001083908

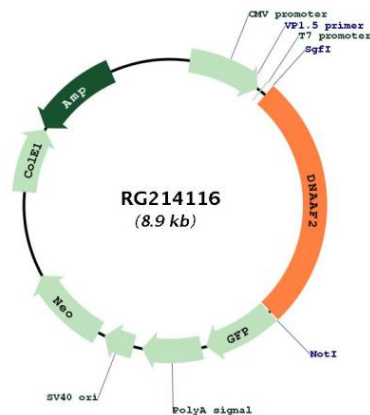
ORF Size: 2367 bp

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:	<u>NM_001083908.2</u>
RefSeq Size:	2832 bp
RefSeq ORF:	2370 bp
Locus ID:	55172
UniProt ID:	<u>Q9NVR5</u>
Cytogenetics:	14q21.3
Gene Summary:	This gene encodes a highly conserved protein involved in the preassembly of dynein arm complexes which power cilia. These complexes are found in some cilia and are assembled in the cytoplasm prior to transport for cilia formation. Mutations in this gene have been associated with primary ciliary dyskinesia. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RG214116