

Product datasheet for **RC212848**

C14orf104 (DNAAF2) (NM_018139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf104 (DNAAF2) (NM_018139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C14orf104
Synonyms:	C14orf104; CILD10; KTU; PF13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC212848 representing NM_018139
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAAGCGCGGCCTCCTCGTCGCTGGAGGACTTGGACCTGAGCGGAGAGGAGGTCCAGCGGCTCA
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 GAACCGCGCGGCTACGAGGCGGAGATCACCGCCTAGAGCGTGAGCGCGGGGTGGAAGTCCGGTTCGTG
 CACCCGGAGCCCGGCATGTGCTGCGCACCAGCCTGGACGGGCGCGGCGCTGCTTTGTGAATGTCTGCA
 GCAACGCGTTGGTGGGCGCGCCAGCAGCCGGCCGGCTCCGGTGGCGACCGGGGCGCAGCTCCTGGCAG
 CCACTGGTCCCTGCCCTACAGCCTGGCGCCGGCCGCGAGTACGCGGGGCGCAGCAGCAGCCGCTACATG
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Protein Sequence: >RC212848 representing NM_018139
 Red=Cloning site Green=Tags(s)

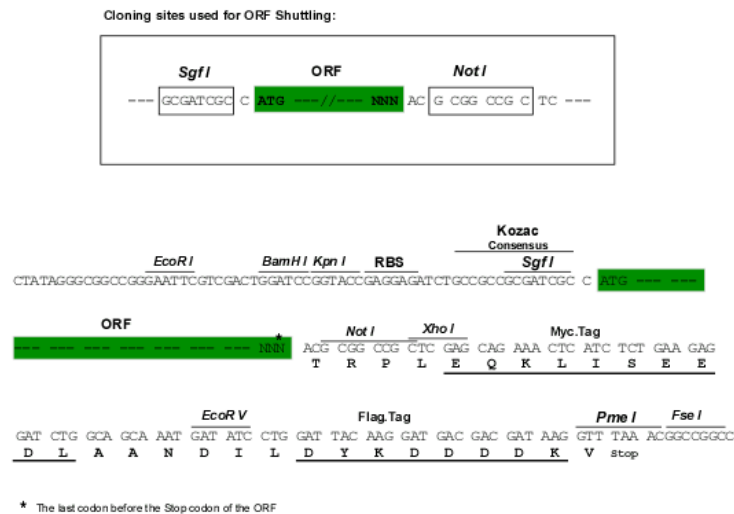
MAKAAASSSLEDLDL SGEEVQRLTSAFQDPEFRMF SQYAEELTDPENRRRYEAEITALERERGVEVRFV
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 VYDVVFHPDALALARRHEGFRQMLDATALEAVEKQFGVKLDRRNAKTLKAKYKGTPEAAVLRTPLPGVIP
 ARPDGEPKGPLPDFYPYQYPAAPGPRAPSPPEAALQPAPTEPRYSVVQRHHVDLQDYRCSRDSAPSPVP
 HELVITIELPLLSAEQAALVTRKLLCLDSRKPDYRLRLSLPYVDDGRGKAQFNKARRQLVVTLPVVL
 PAARREPAVAVAAAAPEESADRS GTDGGQACASAREGEAGPARSRAEDGGHDT CVAGAAGSGVTTLGDPEV
 APPPAAAGEERV PKPGEQDL SRHAGSPPGSVEEPSPGGENSPGGGGSPCLSSRSLAWGSSAGRESARGDS
 SVETREESEGTGGQRSACAMGGPGTKSGEPLCPPLL CNQDKETL TLLIQVPRIQPQSLQGDNLPLWYKLR
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 CNTPTTDSDDSSIAVKALQIDSFGLVTCFQQESLDV SQMILGKSQQPESKMQSEFIKEKSATCSNEEKDNL
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TRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8023_c05.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN:	NM_018139
ORF Size:	2511 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018139.3](#)

RefSeq Size: 2976 bp

RefSeq ORF: 2514 bp

Locus ID: 55172

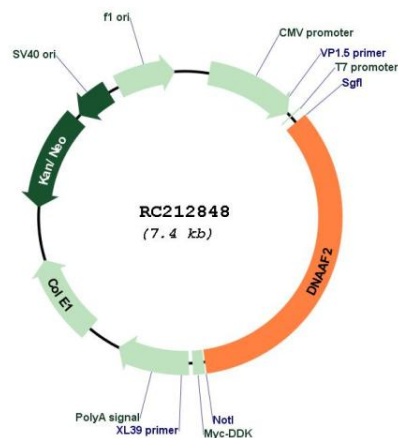
UniProt ID: [Q9NVR5](#)

Cytogenetics: 14q21.3

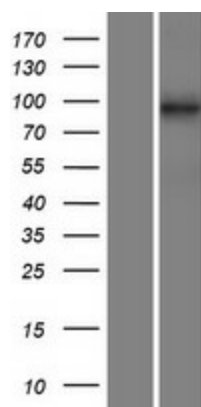
MW: 91.1 kDa

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]

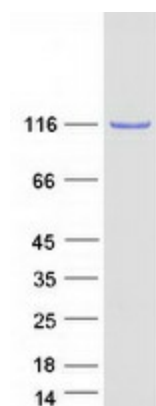
Product images:



Circular map for RC212848



Western blot validation of overexpression lysate (Cat# [LY413292]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212848 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNAAF2 protein (Cat# [TP312848]). The protein was produced from HEK293T cells transfected with DNAAF2 cDNA clone (Cat# RC212848) using MegaTran 2.0 (Cat# [TT210002]).