

## Product datasheet for **RC203591**

### IFT43 (NM\_052873) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IFT43 (NM\_052873) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IFT43  
**Synonyms:** C14orf179; CED3; RP81; SRTD18  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC203591 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGCCAAGATGGGTC  
GCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAAGAATTCCTCTTTGACTCTGAC  
TGGAGAGACTTCCTCTGCTAAATTACCTCGCTGCCGACAGGGAGGCTGGGCAGGTGATCCCGTGAAGGCT  
TCGAACGGTACCCAAACAGGCAAACAACAGCTGGATCTGAACGCATGCTATCACAAAACGCATCACAGAA  
ATTTGGGGCTGGCTTCATTGGAAGAGGCAGATATTCCTATCATTCCGGATCTGGAGGAAGTACAGGAAGA  
AGACTTTGTTTTGCAGGTGGCAGCCCCTCCAGCATCCAGATAAAGCGGGTGATGACCTACCGTGACCTG  
GACAATGACCTCATGAAGTACTAGCCATTAGACACTGGATGGGGAGATCGACCTGAAACTCCTACCA  
AAGTGCTCGCGCCGGAGCACGAAGTCCGGGAGGATGATGTCGGCTGGGACTGGGACCATCTGTTCACTGA  
GGTGTCTCAGAGGTCCTCACTGAGTGGGACCCACTGCAGACGGAGAAGGAGGACCCTGCGGGGCAGGCC  
AGGCACACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203591 protein sequence  
 Red=Cloning site Green=Tags(s)

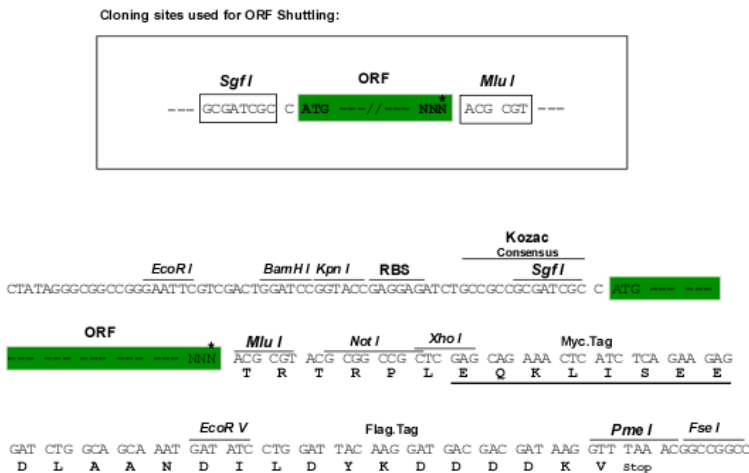
MEDLLDLDEELRYSLATSRAKMGRRAQQESAQAENHLNGKNSSLTLTGETSSAKLPRCQGGWAGDSVKA  
 SNGTQTGKQQLDLNACYHKTHHRNLGLASLEEADIPPIPDLEEVEEDFVLQVAAPPSIQIKRVMTYRDL  
 DNDLMKYSAIQTL DGEIDLKLLTKVLAPEHEVREDDVGDWDHLFTEVSSEVLTEWDPLQTEKEDPAGQA  
 RHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6428\\_c12.zip](https://cdn.origene.com/chromatograms/mk6428_c12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_052873

**ORF Size:** 639 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\\_052873.1](#), [NP\\_443105.1](#)

**RefSeq Size:** 865 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 112752

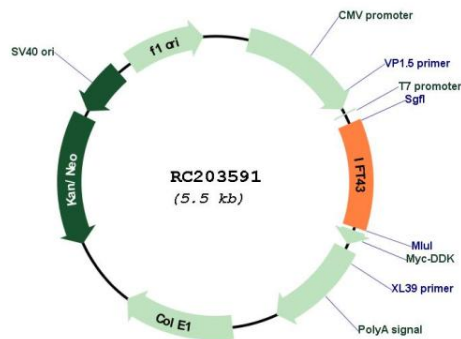
**UniProt ID:** [Q96FT9](#)

**Cytogenetics:** 14q24.3

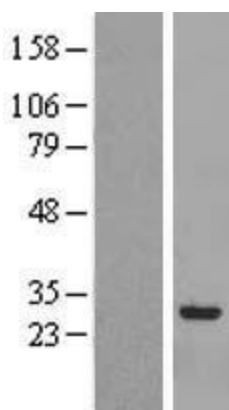
**MW:** 23.9 kDa

**Gene Summary:** This gene encodes a subunit of the intraflagellar transport complex A (IFT-A). IFT-A is a multiprotein complex that plays an important role in cilia assembly and maintenance by mediating retrograde ciliary transport. Mutations in this gene are a cause of cranioectodermal dysplasia-3 (CED3), also known as Sensenbrenner syndrome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

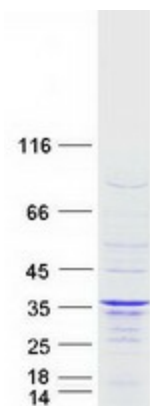
### Product images:



Circular map for RC203591



Western blot validation of overexpression lysate (Cat# [LY409416]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203591 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IFT43 protein (Cat# [TP303591]). The protein was produced from HEK293T cells transfected with IFT43 cDNA clone (Cat# RC203591) using MegaTran 2.0 (Cat# [TT210002]).