

Product datasheet for **RC223029**

IFT43 (NM_001102564) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFT43 (NM_001102564) 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: >RC223029 representing NM_001102564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGCCAAGATGGGTC
 GCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAAGAATTCCTCTTTGACTCTGAC
 TGGAGAGACTTCCTCTGCTAAATTACCTCGCTGCCGACAGGGAGGCTGGCAGGTGATCCGTGAAGGCT
 TCGAAGTTTAGGAGGAAGCTTCTGAAGAAATAGAAGATTTCCGCCTCAGACCACAGAGCCTGAATGGAT
 CAGATTATGGAGGAGATTTCTATCATTCCGGATCTGGAGGAAGTACAGGAAGAAGACTTTGTTTTGCA
 GGTGGCAGCCCCCAGCATCCAGATAAAGCGGGTATGACCTACCGTGACCTGGACAATGACCTCATG
 AAGTACTCAGCCATTCAGACACTGGATGGGAGATCGACCTGAACTCCTCACCAAAGTGCTCGGCCGG
 AGCACGAAGTCCGGGAGGATGATGTGCGCTGGGACTGGGACCATCTGTTCACTGAGGTGTCTCAGAGGT
 CCTCACTGAGTGGGACCCACTGCAGACGGAGAAGGAGGACCTGCGGGCAGGCCAGGCACACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223029 representing NM_001102564
 Red=Cloning site Green=Tags(s)

MEDLLDLDEELRYSLATSRAKMGRRAQQESAQAENHLNGKNSLTLTGETSSAKLPRCRQGGWAGDSVKA
 SKFRRKASEEIEDFRLRPQSLNGSDYGGDIPIIPDLEEVQEEDFVLQVAAPPSIQIKRVMTYRDLNDLDM
 KYSAIQLDGEIDLKLLTKVLAPEHEVREDDVGDWDHLFTEVSSEVLTEWDPLQTEKEDPAGQARHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/ja1466_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102564

ORF Size: 624 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_001102564.3](#)

RefSeq Size: 850 bp

RefSeq ORF: 627 bp

Locus ID: 112752

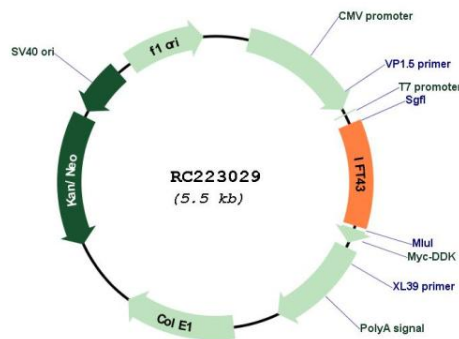
UniProt ID: [Q96FT9](#)

Cytogenetics: 14q24.3

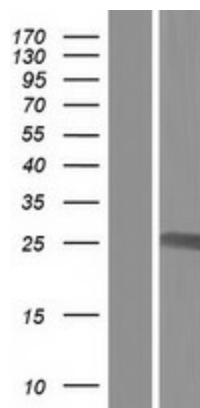
MW: 23.3 kDa

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 RC223029



Western blot validation of overexpression lysate (Cat# [LY420159]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223029 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).