

## Product datasheet for **MR228510**

### Ift43 (NM\_001199843) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ift43 (NM\_001199843) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ift43  
**Synonyms:** 1700019E19Rik; R75064  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR228510 representing NM\_001199843  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGATTTACTGGACCTGGGCGAGGAGAGACGTCGCAGCTCGGCCACCTCCGGGGCCAAGATGGGAC  
GCCGGGCTCATCAGGAGTCGACTCAGGCTGAGAATTACTTAAACAGCAAGAATTCTTCACTGACTCAGAC  
TGGAGAGGCTCCCCACCGAAACCACTCGAAGGCAGGGAGGCTGGGCGGATGACTCCATGAAGATGGCG  
AAATTGGGAAAGAAAGTTTCTGAAGAGATGGAAGATCACCGCCTCCGACAGCAGAACCTGATGGGGTCAG  
ACGACGACGATATTCCTGTGATCCAGACCTGGAAGATGTGCAGGAGGAAGACTTTGTGCTACAGGTGGC  
GTCTCCTCCAAGTATCCAGGTAAACCGAGTGATGACCTACCGTGACCTGGACAATGACCTCATGAAGTAC  
TCGGCCTTTCAGACTTTGGATGGAGAAATTGACCTGAAACTCCTACCAAAGTGCTGGCCCCAGAGCATG  
AAGTGCAGAGGATGATGTGGGCTGGGACTGGGACCATCTGTACACCGAGGTGTCTCAGAGCTCCTCAC  
TGAGTGGGACCTGCTGCGGGCAGAGAAGGAGGATCCTGTGGGACCATCTAGGTACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228510 representing NM\_001199843  
Red=Cloning site Green=Tags(s)

MDDL~~LDLGEERRSSATSGAKMGRRAHQESTQAENYLNSKNSSLTQTGEAPPPKPPRRQGGWADDSMKMA~~  
KLGGK~~VSEEMDHRLRQQNLMGSDDDIPVIPDLEDVQEEDFVLQVASPPSIQVNRVMTYRDLNDLNMKY~~  
SAFQ~~TL~~DGEIDLKLLTKVLAPEHEVREDDVGDWDHLYTEVSSELLTEWDL~~LRAEKEDPVGPSRYI~~

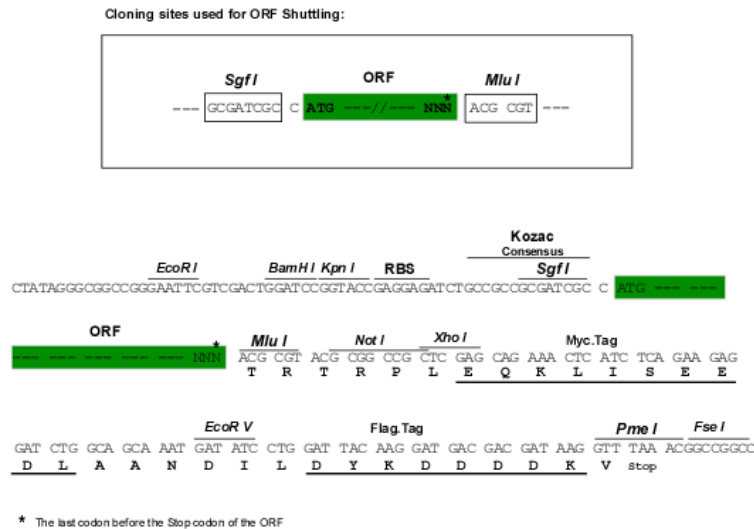
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001199843

**ORF Size:** 618 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\\_001199843.1](#), [NP\\_001186772.1](#)

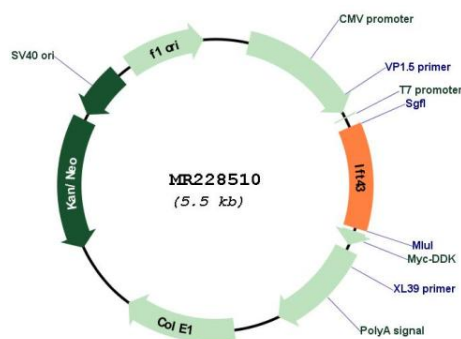
**RefSeq Size:** 825 bp

**RefSeq ORF:** 621 bp

Locus ID: 76411  
 UniProt ID: [Q9DA69](#)  
 Cytogenetics: 12 D2  
 MW: 24 kDa

**Gene Summary:** As a component of IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs), it is involved in ciliogenesis. Involved in retrograde ciliary transport along microtubules from the ciliary tip to the base. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR228510