

Product datasheet for **RG231678**

IFT43 (NM_001255995) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IFT43 (NM_001255995) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IFT43
Synonyms: C14orf179; CED3; RP81; SRTD18
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231678 representing NM_001255995
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGATTTGCTCGACTTGGACGAGGAGCTTCGCTACAGCTTGGCTACCTCCAGGGCCAAGATGGGTC
GCCGAGCTCAACAGGAGTCAGCGCAGGCCGAGAATCACCTCAATGGCAAGAATTCCTCTTTGACTCTGAC
TGGAGAGACTTCCTCTGCTAAATTACCTCGCTGCCGACAGGGAGGCTGGGCAGGTGATCCGTGAAGGCT
TCGAAGTTTAGGAGGAAGCTTCTGAAGAAATAGAAGAGTACGTTTCCAGTATTCTATTCTTATGGTAT
CCTATGTTGATCTTGGTCAACAGTGCAGTCTTGGTGGTCATGATCTGTTCCACCTATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231678 representing NM_001255995
Red=Cloning site Green=Tags(s)
MEDLLDLDEELRYSLATSRAKMGRRAQQESAQAENHLNGKNSLTLTGETSSAKLPRCRQGGWAGDSVKA
SKFRRKASEEIEEYVSSILILMVSYYVDLGGQCSLGGHDLFHLC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

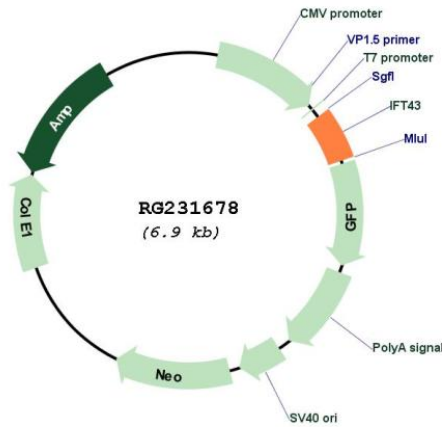


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001255995

ORF Size: 339 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:	<ol style="list-style-type: none">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_001255995.2</u>
RefSeq Size:	911 bp
RefSeq ORF:	342 bp
Locus ID:	112752
UniProt ID:	<u>Q96FT9</u>
Cytogenetics:	14q24.3
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]