

Product datasheet for **MG212657**

Ift43 (NM_029601) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ift43 (NM_029601) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ift43
Synonyms: 1700019E19Rik; R75064
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG212657 representing NM_029601
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGATTTACTGGACCTGGGCGAGGAGAGACGTCGCAGCTCGGCCACCTCCGGGGCCAAGATGGGAC
 GCCGGGCTCATCAGGAGTCGACTCAGGCTGAGAATTACTTAAACAGCAAGAATTCCTCAGCTCAGAC
 TGGAGAGGCTCCCCACCGAAACCCTCGAAGGCAGGGAGGCTGGGCGGATGACTCCATGAAGATGGCG
 AATCACCCTCCGACAGCAGAACCCTGATGGGGTCAGACGACGACGATATTCCTGTGATCCAGACTGG
 AAGATGTGCAGGAGGAAGACTTTGTGCTACAGGTGGCGTCTCCTCAAGTATCCAGGTAACCGAGTGAT
 GACCTACCGTGACTGGACAATGACCTCATGAAGTACTCGGCCTTCAGACTTTGGATGGAGAAATTGAC
 CTGAAACTCCTACCAAAGTGCTGGCCCCAGAGCATGAAGTGCAGAGGATGATGTGGGCTGGGACTGGG
 ACCATCTGTACACCGAGGTGTCCTCAGAGCTCCTCACTGAGTGGGACCTGCTGCGGGCAGAGAAGGAGGA
 TCCTGTGGGACCATCTAGGTACATC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG212657 representing NM_029601
 Red=Cloning site Green=Tags(s)

MDDL~~DL~~GEERRSSATSGAKMGRRAHQESTQAENYLNSKNSSLTQTGEAPPPKPPRRQGGWADDSMKMA
 NHRLRQQNLMSDDDDIPVIPDLEDVQEEDFVLQVASPPSIQVNRVMTYRDLNDLMLKYSAFQTL~~DGEID~~
 LKLLTKVLAPEHEVREDDVGDWDHLYTEVSELLTEWDL~~L~~RAEKEDPVGPSRYI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

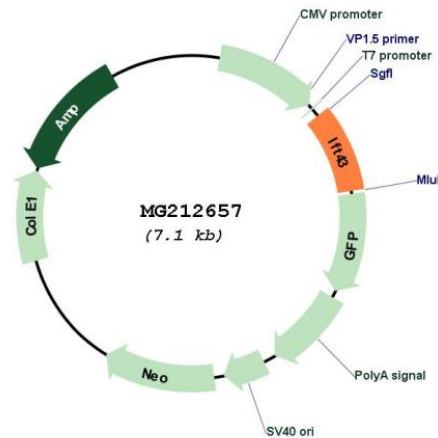


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Cloning Scheme:



Plasmid Map:



ACCN: NM_029601

ORF Size: 585 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_029601.3](#), [NP_083877.1](#)

RefSeq Size: 771 bp

RefSeq ORF: 588 bp

Locus ID: 76411

UniProt ID: [Q9DA69](#)

Cytogenetics: 12 D2

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]