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Product datasheet for MG222797

Ift57 (NM_028680) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ift57 (NM_028680) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ift57
Synonyms:	4833420A15Rik; Esrrbl1; Hippi; MHS4R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG222797 representing NM_028680
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCCGCGGCCGCGGTGATCCCGCCGTCGGGCTTGGACGATGGGGTGTCTCGGGCTCGCGGGGAAG
GCGCAGGGGAGGCTGTGGTGGAGCGCGGGCCAGGAGCGGCCTACCACATGTTCGTGGTGATGGAAGACTT
AGTGGAGAAGCTGAAGCTGCTCCGCTACGAGGAGGAGCTACTCCGAAAGAGCAATCTGAAGCCCCCGTCC
AGACACTACTTTGCTCTGCCTACCAACCCAGGCGAGCAGTTCTACATGTTTTGCACTCTTGCTGCGTGGC
TGATCAACAAAACTGGCCGTGCCTTTGAGCAGCCTCAAGAATACGACGATCCCAATGCAACTATATCTAA
TATACTCTCTGAGCTTCGCTCTTTTGGGAGAACTGCAGATTTTCCTCCTTCAAAATTAAAGTCTGGTTAC
GGAGAACAAGTGTGCTATGTTCTTGATTGCTTAGCTGAAGAAGCTTTAAAATATATTGGTTTCACTTGGA
AAAGGCCATCATACCCAGTGGAAGAACTAGAAGAAGAAACTGTTCCAGAAGATGATGCCGAGTTAACATT
AAGTAAAGTGGATGAAGAATTTGTGGAAGAGGAGACAGATAATGAAGAAAACTTTATTGATCTCAACGTT
TTAAAGGCCCAGACCTATCGCTTGGACACAAACGAGTCTGCCAAACAAGAAGATATTTTGGAATCTACGA
CAGATGCTGCGGAATGGAGCCTAGAAGTTGAGCGTGTACTACCGCAGCTGAAAGTCACGATTAGGACTGA
CAATAAGGATTGGAGGATCCATGTTGACCAAATGCACCAGCACAAAAGTGGGATTGAATCTGCTCTGAAG
GAGACCAAGGGGTTTTTGGACAAGCTCCATAATGAAATTAGCAGGACTCTGGAAAAGATTGGCAGCCGAG
AAAAGTACATTAACAATCAACTTGAGCACTTGGTTCAAGAATATCGTGGGGCCCAAGCCCAGCTAAGTGA
GGCAAGGGAGCGCTACCAGCAGGGCAATGGCGGAGTAACTGAACGGACCAGACTCCTCTCTGAGGTTACA
GAAGAATTAGAAAAGGTAAAGCAAGAAATGGAAGAGAAGGGCAGCAGCATGACGGACGGCACTCCTTTGG
TGAAGATTAAGCAGAGCTTAACCAAGCTGAAGCAAGAAACTGTTCAGATGGACATTAGAATCGGTGTGGT
GGAGCACACGCTACTTCAGTCAAAACTCAAGGAGAAGTGCAACATGACCAGGGACATGCATGCAGCTGTC
ACCCCAGAGTCAGCAATTGGCTTCTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

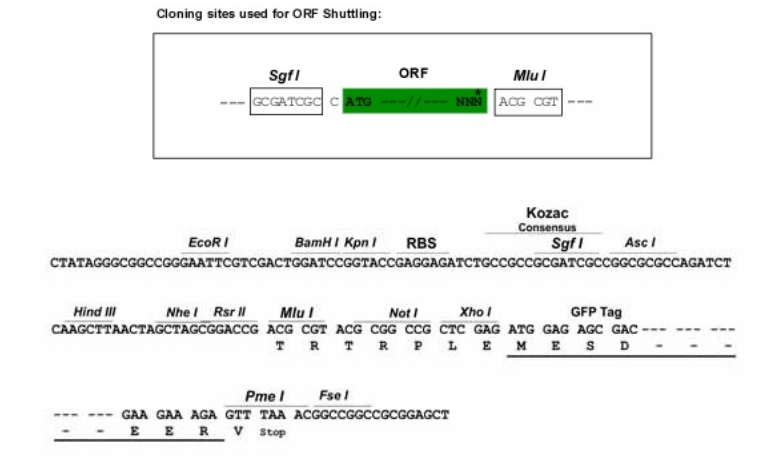
>MG222797 representing NM_028680
Red=Cloning site Green=Tags(s)

MAAAAAVIPPSGLDDGVSRARGEGAGEAVVERGPGAAYHMFVVMEDLVEKLKLLRYEEELLRKSNLKPPS
RHYFALPTNPGEQFYMFCTLAAWLINKTGRAFEQPQEYDDPNATISNILSELRSFGRTADFPPSKLKSGY
GEQVCYVLDCLAEEALKYIGFTWKRPSYPVEELEEETVPEDDAELTLSKVDEEFVEEETDNEENFIDLNV
LKAQTYRLDTNESAKQEDILESTTDAAEWSLEVERVLPQLKVTIRTDNKDWRIHVDQMHQHKSGIESALK
ETKGFLDKLHNEISRTLEKIGSREKYINNQLEHLVQEYRGAQAQLSEARERYQQGNGGVTERTRLLSEVT
EELEKVKQEMEEKGSSMTDGTPLVKIKQSLTKLKQETVQMDIRIGVVEHTLLQSKLKEKCNMTRDMHAAV
TPESAIGFY

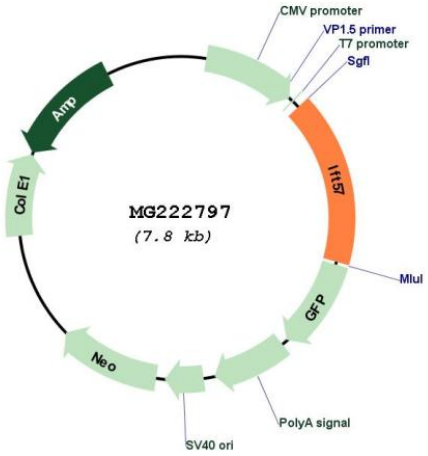
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028680

ORF Size:	1287 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_028680.3, NP_082956.2
RefSeq Size:	2540 bp
RefSeq ORF:	1290 bp
Locus ID:	73916
UniProt ID:	Q8BXG3
Cytogenetics:	16 B5
Gene Summary:	Required for the formation of cilia. Plays an indirect role in sonic hedgehog signaling, cilia being required for all activity of the hedgehog pathway. Has pro-apoptotic function via its interaction with HIP1, leading to recruit caspase-8 (CASP8) and trigger apoptosis. Has the ability to bind DNA sequence motif 5'-AAAGACATG-3' present in the promoter of caspase genes such as CASP1, CASP8 and CASP10, suggesting that it may act as a transcription regulator; however the relevance of such function remains unclear.[UniProtKB/Swiss-Prot Function]