

Product datasheet for **MR222797**

Ift57 (NM_028680) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ift57 (NM_028680) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ift57
Synonyms:	4833420A15Rik; Esrrbl1; Hipp1; MHS4R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222797 representing NM_028680
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGCGCGCGCCGCGGTGATCCCGCGCTCGGGCTTGGACGATGGGGTGTCTCGGGCTCGCGGGGAAG
 GCGCAGGGGAGGCTGTGGTGGAGCGCGGCCAGGAGCGGCTACACATGTTTCGTGGTATGGAAGACTT
 AGTGGAGAAGCTGAAGCTGCTCCGCTACGAGGAGGAGCTACTCCGAAAGCAATCTGAAGCCCCGCTCC
 AGACACTACTTTGCTCTGCCTACCAACCAGGCGAGCAGTTTACATGTTTTGCACTCTTCTGCGTGGC
 TGATCAACAAAAGTGGCCGTGCCTTTGAGCAGCCTCAAGAATACGACGATCCCAATGCAACTATATCTAA
 TATACTCTCTGAGCTTCGCTCTTTGGGAGAAGTGCAGATTTTCTCCTTCAAATTAAGTCTGGTTAC
 GGAGAACAAGTGTCTATGTTCTTGATTGCTTAGCTGAAGAAGCTTTAAAATATATTGGTTTCACTTGA
 AAAGGCCATCATACCCAGTGAAGAAGTGAAGAAGAACTGTTCCAGAAGATGATGCCGAGTTAACATT
 AAGTAAAGTGGATGAAGAATTTGTGAAGAGGAGACAGATAATGAAGAAAATTTATTGATCTAACGTT
 TTAAGGCCAGACCTATCGCTTGGACACAACGAGTCTGCCAAACAAGAAGATATTTGGAAATCTACGA
 CAGATGCTGCGGAATGGAGCCTAGAAGTTGAGCGTGTACTACCGAGCTGAAAGTACAGATTAGGACTGA
 CAATAAGGATTGGAGGATCCATGTTGACCAATGCACCAGCACAAAAGTGGGATTGAATCTGCTCTGAAG
 GAGACCAAGGGTTTTTGGACAAGCTCCATAATGAAATAGCAGGACTCTGGAAAAGATTGGCAGCCGAG
 AAAAGTACATTAACAATCAACTTGAACACTTGGTTCAAGAATATCGTGGGGCCCAAGCCAGCTAAGTGA
 GGCAAGGGAGCGCTACCAGCAGGGCAATGGCGGAGTAAGTGAACGGACCAGACTCCTCTCTGAGGTTACA
 GAAGAATTAGAAAAGTAAAGCAAGAAATGGAAGAGAAGGGCAGCAGCATGACGGACGGCACTCCTTTGG
 TGAAGATTAAGCAGAGCTTAACCAAGCTGAAGCAAGAACTGTTTCAGATGGACATTAGAATCGGTGTGGT
 GGAGCACAGCTACTTCAGTCAAACTCAAGGAGAAGTGAACATGACCAGGGACATGCATGCAGCTGTC
 ACCCCAGAGTCAGCAATTGGCTTCTAT

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222797 representing NM_028680
 Red=Cloning site Green=Tags(s)

MAAAAVIPPSGLDDGVSRRAGEGAGEAVVERGPGAAYHMFVVMEDLVEKLKLLRYEEELLRKSNLKPPS
 RHYFALPTNPGEQFYMFTLAAWLINKTGRAFEQPQEYDDPNATISNILSELRSFGRTADFPKSLKSGY
 GEQVCYVLDCLAEALKYIGFTWKRPSYPVEELEEEETVPEDDAELTLKVDDEEFVEEETDNEENFIDLNV
 LKAQTYRLDTNESAKQEDILESTTDAAEWSLEVERVLPQLKVTIRTDNKDWRIHVDQMHHKSGIESALK
 ETKGFLDKLHNEISRTLEKIGSREKYINNQLHLVQEYRGAQAQLSEARERYQNGGVTERTRLLSEVT
 EELEKVKQEMEEKGSSMTDGTPLVKIKQSLTKLKQETVQMDIRIGVVEHTLLQSKLKEKCNMTRDMHAAV
 TPESAIGFY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9090_h01.zip

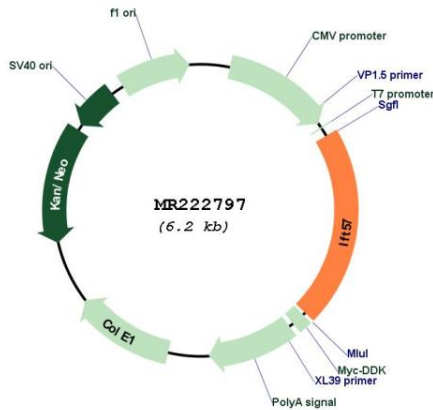
Restriction Sites:

SgfI-MluI

MW: 48.8 kDa

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]

Product images:



Circular map for MR222797