

Product datasheet for **RG204116**

HIPPI (IFT57) (NM_018010) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPPI (IFT57) (NM_018010) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIPPI
Synonyms:	ESRRBL1; HIPPI; MHS4R2; OFD18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204116 representing NM_018010 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGCTGCTCTGGCCGTCGTCACGACGTCGGGTTTGGAAAGATGGGGTGCCTAGGTCCCCTGGCGAAG
GGACCGGGGAAGTGGTCTTGGAGCGGGGCCCCGGCGGCCTACACATGTTCTGGTGATGGAGGACTT
GGTGGAGAAGCTGAAGCTGCTCCGCTACGAGGAGGAGTTCCTCCGGAAGAGCAACCTGAAGGCCCGTCC
AGACACTATTTTGCCTACCAACCCTGGCGAACAGTTCTACATGTTTTGACTCTTGCTGCTTGGT
TGATTAATAAAGCGGGACGTCCCTTTGAGCAGCCTCAAGAATATGATGACCCTAATGCAACAATATCTAA
CATACTATCCGAGCTTCGGTCATTTGGAAGAACTGCAGATTTTCCTCCTTCAAAATTAAGTCAGGTTAT
GGAGAACATGTATGCTATGTTCTTGATTGCTTCGCTGAAGAAGCATTGAAATATATTGGTTTCACCTGGA
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AAATAAAGTGGATGAAGAATTTGTGGAAGAAGAGACAGATAATGAAGAAAATTTATTGATCTCAACGTT
TTAAAGGCCAGACATATCACTTGGATATGAACGAGACTGCCAAACAAGAAGATATTTTGGAAATCCACAA
CAGATGCTGCAGAATGGAGCCTAGAAGTGAACGTGTACTACCGCAACTGAAAGTCACGATTAGGACTGA
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GAGACCAAGGGATTTTGGACAAACTCCATAATGAAATTAAGGACTTTGGAAAAGATCAGCAGCCGAG
AAAAGTACATCAACAATCAGCTTGAGAATTTGGTTCAAGAATATCGTGCAGCTCAAGCCAGCTGAGTGA
GGCAAAGGAGCGATACCGCAGGAAATGGAGGAGTGACGAAAGAACCAGACTCCTCTCTGAGGTTATG
GAAGAATTAGAAAAGGTAACAAAGAAATGGAAGAAAAGGCGAGCAGCATGACTGATGGTCTCCTTTGG
TGAAGATTAACAGAGCTTAACAAAAGTGAAGCAAGAACTGTAGAGATGGACATTAGAATTGGCATTGT
GGAACACACACTACTCCAATCAAAGCTGAAGGAGAAGTCCAACATGACTAGGAACATGCATGCCACAGTT
ATTCCAGAACCAGCAACAGGCTTTTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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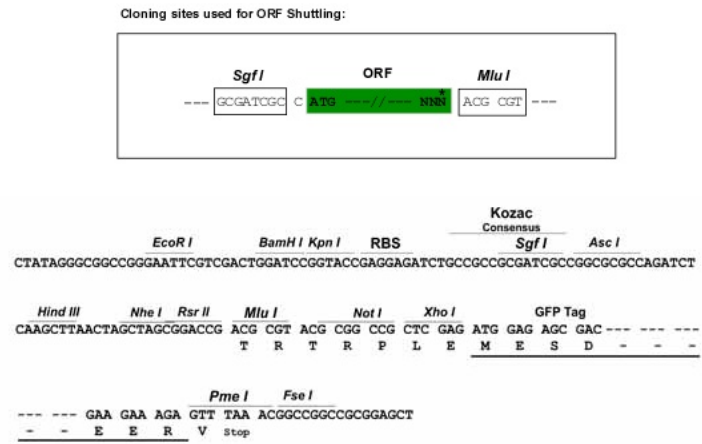
Protein Sequence: >RG204116 representing NM_018010
Red=Cloning site Green=Tags(s)

MTAALAVVTTSGLEDGVPRSRGEGTGEVVLERGPAAAYHMFVVMEDLVEKLLRYEEFLRKSNLKAPS
 RHYFALPTNPGEQFYMFCTLAAWL INKAGRPFEQPQEYDDPNATISNILSELRSFGRTADFPSSKLKSGY
 GEHVICYVLD CFAEEALKYIGFTWKRPIYPVEELEEESVAEDDAELTLNKVDEEFVEEETDNEENFIDLNV
 LKAQTYHLDMNETAKQEDILESTTDAAEWSLEVERVLPQLKVTIRTDNKDWRIHVDQMHQHRSGIESALK
 ETKGFLDKLHNEITRTLEKISSREKYINNQLENLVQEYRAAQAQLSEAKERYQQGNGGVTERTLLSEVM
 EEEKVKQEMEEKGSSMTDGAPLVKIKQSLTKLKQETVEMDIRIGIVEHTLLQSKLKEKSNMTRNMHATV
 IPEPATGFY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018010

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_018010.4](#)

RefSeq Size: 3052 bp

RefSeq ORF: 1290 bp

Locus ID: 55081

UniProt ID: [Q9NWB7](#)

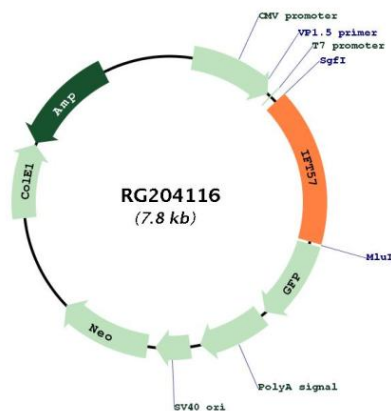
Cytogenetics: 3q13.12-q13.13

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease

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 (By similarity). 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 RG204116