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Product datasheet for RC204116

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:	Myc-DDK
Symbol:	HIPPI
Synonyms:	ESRRBL1; HIPPI; MHS4R2; OFD18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC204116 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTGCTGCTCTGGCCGTCGTCACGACGTCGGGTTTGGAAGATGGGGTGCCTAGGTCCCGTGGCGAAG
GGACCGGGGAAGTGGTCTTGGAGCGGGGGCCCGGCGCGGCCTACCACATGTTCGTGGTGATGGAGGACTT
GGTGGAGAAGCTGAAGCTGCTCCGCTACGAGGAGGAGTTCCTCCGGAAGAGCAACCTGAAGGCCCCGTCC
AGACACTATTTTGCACTGCCTACCAACCCTGGCGAACAGTTCTACATGTTTTGTACTCTTGCTGCTTGGT
TGATTAATAAAGCGGGACGTCCCTTTGAGCAGCCTCAAGAATATGATGACCCTAATGCAACAATATCTAA
CATACTATCCGAGCTTCGGTCATTTGGAAGAACTGCAGATTTTCCTCCTTCAAAATTAAAGTCAGGTTAT
GGAGAACATGTATGCTATGTTCTTGATTGCTTCGCTGAAGAAGCATTGAAATATATTGGTTTCACCTGGA
AAAGGCCAATATACCCAGTAGAAGAATTAGAAGAAGAAAGCGTTGCAGAAGATGATGCAGAATTAACATT
AAATAAAGTGGATGAAGAATTTGTGGAAGAAGAGACAGATAATGAAGAAAACTTTATTGATCTCAACGTT
TTAAAGGCCCAGACATATCACTTGGATATGAACGAGACTGCCAAACAAGAAGATATTTTGGAATCCACAA
CAGATGCTGCAGAATGGAGCCTAGAAGTGGAACGTGTACTACCGCAACTGAAAGTCACGATTAGGACTGA
CAATAAGGATTGGAGAATCCATGTTGACCAAATGCACCAGCACAGAAGTGGAATTGAATCTGCTCTAAAG
GAGACCAAGGGATTTTTGGACAAACTCCATAATGAAATTACTAGGACTTTGGAAAAGATCAGCAGCCGAG
AAAAGTACATCAACAATCAGCTTGAGAATTTGGTTCAAGAATATCGTGCAGCTCAAGCCCAGCTGAGTGA
GGCAAAGGAGCGATACCAGCAGGGAAATGGAGGAGTGACGGAAAGAACCAGACTCCTCTCTGAGGTTATG
GAAGAATTAGAAAAGGTAAAACAAGAAATGGAAGAAAAGGGCAGCAGCATGACTGATGGTGCTCCTTTGG
TGAAGATTAAACAGAGCTTAACAAAACTGAAGCAAGAAACTGTAGAGATGGACATTAGAATTGGCATTGT
GGAACACACACTACTCCAATCAAAGCTGAAGGAGAAGTCCAACATGACTAGGAACATGCATGCCACAGTT
ATTCCAGAACCAGCAACAGGCTTTTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204116 protein sequence
Red=Cloning site Green=Tags(s)

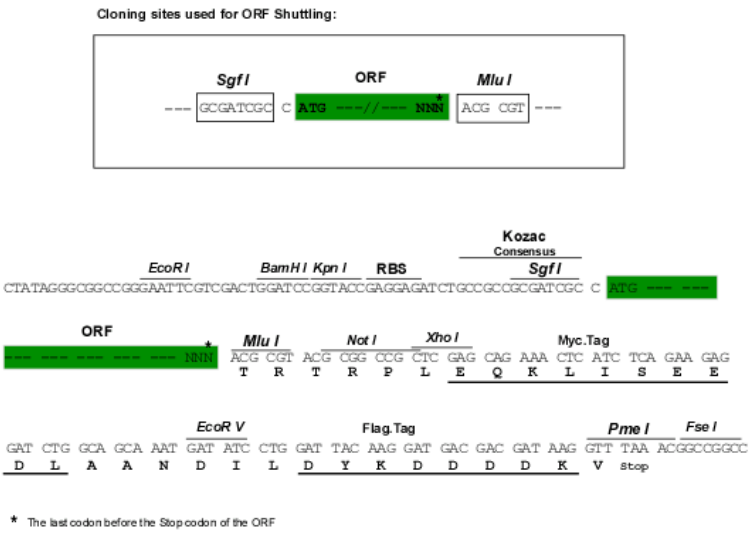
MTAALAVVTTSGLEDGVPRSRGEGTGEVVLERGPGAAYHMFVVMEDLVEKLKLLRYEEEFLRKSNLKAPS
RHYFALPTNPGEQFYMFCTLAAWLINKAGRPFEQPQEYDDPNATISNILSELRSFGRTADFPPSKLKSGY
GEHVCYVLDCFAEEALKYIGFTWKRPIYPVEELEEESVAEDDAELTLNKVDEEFVEEETDNEENFIDLNV
LKAQTYHLDMNETAKQEDILESTTDAAEWSLEVERVLPQLKVTIRTDNKDWRIHVDQMHQHRSGIESALK
ETKGFLDKLHNEITRTLEKISSREKYINNQLENLVQEYRAAQAQLSEAKERYQQGNGGVTERTRLLSEVM
EELEKVKQEMEEKGSSMTDGAPLVKIKQSLTKLKQETVEMDIRIGIVEHTLLQSKLKEKSNMTRNMHATV
IPEPATGFY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6174_a09.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018010.4

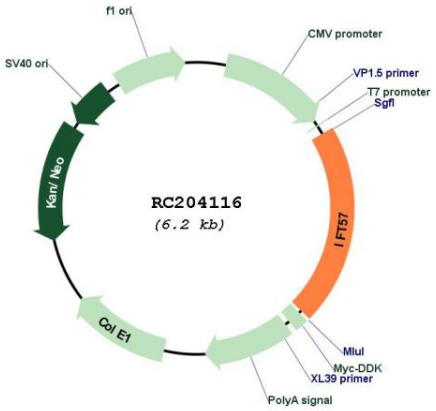
RefSeq Size: 3223 bp

RefSeq ORF: 1290 bp

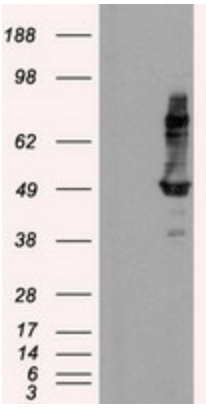
Locus ID: 55081

UniProt ID:	Q9NWB7
Cytogenetics:	3q13.12-q13.13
Protein Families:	Druggable Genome
Protein Pathways:	Huntington's disease
MW:	49.1 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 (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]

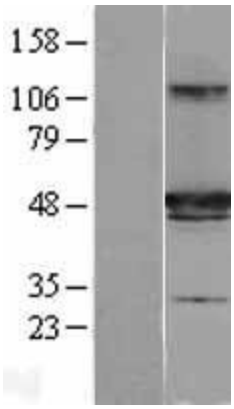
Product images:



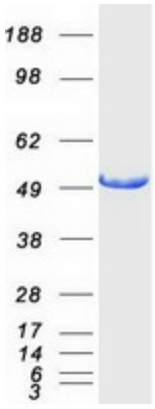
Circular map for RC204116



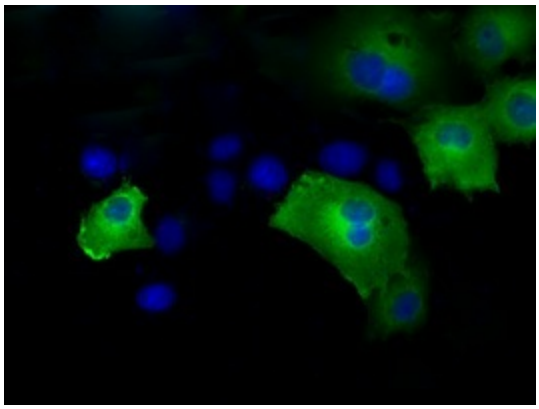
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IFT57 (Cat# RC204116, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IFT57 (Cat# [TA500918]). Positive lysates [LY402637] (100ug) and [LC402637] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402637]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204116 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IFT57 protein (Cat# [TP304116]). The protein was produced from HEK293T cells transfected with IFT57 cDNA clone (Cat# RC204116) using MegaTran 2.0 (Cat# [TT210002]).



Anti-IFT57 mouse monoclonal antibody ([TA500918]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY IFT57 (RC204116).