

Product datasheet for **RC200158**

PIH1D1 (NM_017916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIH1D1 (NM_017916) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIH1D1
Synonyms:	MOT48; NOP17; Pih1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200158 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGAACCGAAGCTGCTGGGACTGGAGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTCGGCGCGAT
 TTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCAGACAACCAGACCAGAATCGACACA
 AATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGTTTTTCATCAACATCTGC
 CACTCCCCCTCTATCCCTCCTCCGCGGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACC
 AAGCTGGGTTTTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATG
 TACCGCCTACGAGTAGCTGTCAACAGCGACTTCTACCGAGGATGCAGAACAGCGATTTCTTGCGGGAG
 CTCGTGATCACCATCGCCAGGGAGGGCCTTGAGGACAAATACAATTGACGCTGAATCCGGAATGGCGCA
 TGATGAAGAACCGGCCATTTCATGGGCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCTCGGAT
 CCAGGAGCTGGGGGACCTGTACACGCCCGCCCCGGGAGAGCTGAGTCAGGCCCTGAAAAGCCTCACCTG
 AACCTGTGGCTGGAAGCCCCGACCTCCTCTTGCCGAAATTGACCTCCCCAACTGGATGGAGCCCTGG
 GGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTATGGGGGGCCCCAGCAGCTGTATCATCTAGACGC
 TTATATCCCGCTGCAGATCAACTCTCATGAGACCAAGGCAGCCTTCCACCGGAAGAGAAAGCAATTAATG
 GTGGCCATGCCGCTTCTGCTGGTGCCTTCT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC200158 protein sequence
 Red=Cloning site Green=Tags(s)

MANPKLLGLELSEAEAIGADSARFEELLQASKELQQAQTTRPESTQIQPGFCIKTNSSEGKVFINIC
 HSPSIPPPADVTEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQCTAYDVAVNSDFYRRMQNSDFLRE
 LVITIAREGLEDKYNLQLNPEWRMMKNRPFMGSI SQQNIRSEQRPRIQELGDL YTPAPGRAESGPEKPHL
 NLWLEAPDLLLAEIDL PKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKA AFHRKRKQLM
 VAMPLLLVPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6721_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017916

ORF Size: 870 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_017916.3](#)

RefSeq Size: 1256 bp

RefSeq ORF: 873 bp

Locus ID: 55011

UniProt ID: [Q9NWS0](#)

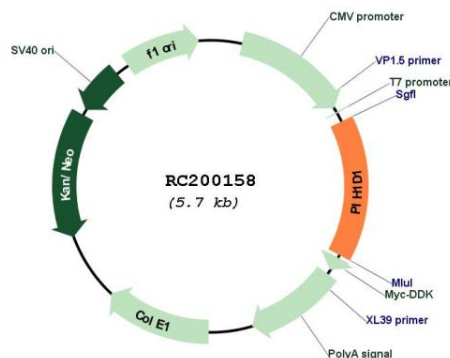
Cytogenetics: 19q13.33

Protein Families: Druggable Genome

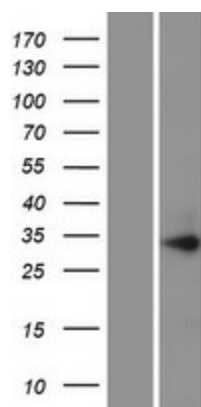
MW: 32.4 kDa

Gene Summary: Involved in the assembly of C/D box small nucleolar ribonucleoprotein (snoRNP) particles (PubMed:17636026). Recruits the SWI/SNF complex to the core promoter of rRNA genes and enhances pre-rRNA transcription (PubMed:22368283, PubMed:24036451). Mediates interaction of TELO2 with the R2TP complex which is necessary for the stability of MTOR and SMG1 (PubMed:20864032). Positively regulates the assembly and activity of the mTORC1 complex (PubMed:24036451).[UniProtKB/Swiss-Prot Function]

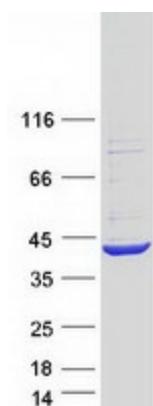
Product images:



Circular map for RC200158



Western blot validation of overexpression lysate (Cat# [LY413445]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200158 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PIH1D1 protein (Cat# [TP300158]). The protein was produced from HEK293T cells transfected with PIH1D1 cDNA clone (Cat# RC200158) using MegaTran 2.0 (Cat# [TT210002]).