

Product datasheet for **RG200158**

PIH1D1 (NM_017916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIH1D1 (NM_017916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIH1D1
Synonyms:	MOT48; NOP17; Pih1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200158 representing NM_017916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGAACCCGAAGCTGCTGGGACTGGAGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTCGGCGCGAT
 TTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACACA
 AATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGTTTTATCAACATCTGC
 CACTCCCCCTCTATCCCTCCTCCGCGGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACC
 AAGCTGGGTTTTCGATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATG
 TACCGCCTACGAGTAGCTGTCAACAGCGACTTCTACCGAGGATGCAGAACAGCGATTTCTTGCGGGAG
 CTCGTGATCACCATCGCCAGGGAGGGCCTTGAGGACAAATACAATTGACGCTGAATCCGGAATGGCGCA
 TGATGAAGAACCGGCCATTTCATGGGCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCTCGGAT
 CCAGGAGCTGGGGGACCTGTACACGCCCGCCCCGGGAGAGCTGAGTCAGGCCCTGAAAAGCCTCACCTG
 AACCTGTGGCTGGAAGCCCCGACCTCCTCTTGCCGAAATTGACCTCCCCAACTGGATGGAGCCCTGG
 GGCTGTCGCTGGAGATCGGGGAGAACCGCTGGTATGGGGGGCCCCAGCAGCTGTATCATCTAGACGC
 TTATATCCCGCTGCAGATCAACTCTCATGAGACCAAGGCAGCCTTCCACCGGAAGAGAAAGCAATTAATG
 GTGGCCATGCCGCTTCTGCTGGTGCCTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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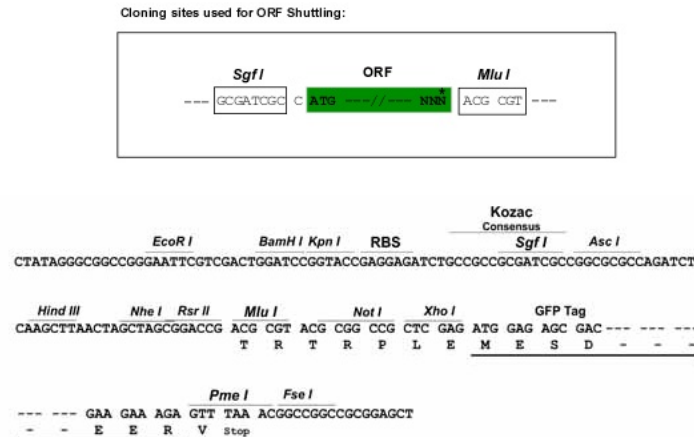
Protein Sequence: >RG200158 representing NM_017916
 Red=Cloning site Green=Tags(s)

MANPKLLGLELSEAEAIGADSARFEELLQASKELQQAQTTRPESTQIQPQPGFCIKTNSSEGKVFINIC
 HSPSIPPPADVTEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQCTAYDVAVNSDFYRRMQNSDFLRE
 LVITIAREGLEDKYNLQLNPEWRMMKNRPFMGSIQQNIRSEQRPRIQELGDL YTPAPGRAESGPEKPHL
 NLWLEAPDLLLAIEDLPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKA AFHRKRKQLM
 VAMPLLLVPS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017916

ORF Size: 870 bp

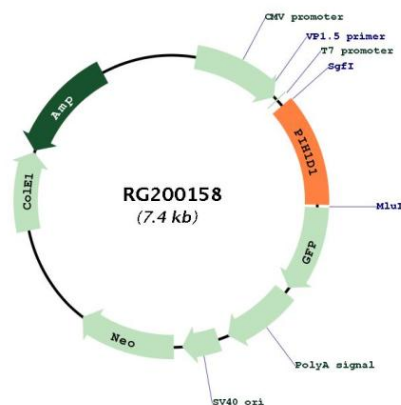
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	<u>NM_017916.1, NP_060386.1</u>
RefSeq Size:	1208 bp
RefSeq ORF:	873 bp
Locus ID:	55011
UniProt ID:	<u>Q9NWS0</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome
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 RG200158