

Product datasheet for **MG203954**

Pih1d1 (NM_029406) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pih1d1 (NM_029406) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pih1d1
Synonyms: 1110061L23Rik; 4933413A04Rik; Nop17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203954 representing NM_029406
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGACTCGACGTTTTTGGCACCAGAATAAGCGACACAGAGTCGATGGGTGAAGAGACGGTGC
TTCAGGAGCTGCTGCTGAAGGCTTCAAAGAGCTCCAGCAAGCCCAGACAGCCAGGCCAGACTCTACACA
GATCCAGCCAAAGCCTGGTTTCTGTGTGAAGCAACTCATCGGAAGGAAAGTTTTTCATCAACATCTGC
CACTCTCCCTCCATCCCTCCCCGGCCGACGTGACTGAGGACGAGCTGCTGCAGATGCTGGAGGAGGACC
AGGCTGGCTTCCGAATCCCCATGAGCCTGGGAGAGCCGCACGCGGAGCTGGATGCAAAAGGCCAGGGCTG
TACTGCCTATGACGTCGCTGTCAATAGCAACTTCTACCTGAGGATGCAGAACAGTGATTTCTTGGCGGAA
CTGGTGGTCACCATCGCCAGGGAGGCGCTTGGAGACAAGTATGGCCTACAGCTAAATCCTGAATGGCGCA
TGTTGAAGTACCGGTCTTTCCTGGGCTCCATCTCACAGCAGAACATCCGTTCTCAGCAGCGACCTCGGAT
CCAGGAGCTGGGACCCCTGGATGCCAGTGGCTCACTGGGAACCTGTATGGCCCAGAACGGCCTCACCTG
AACCTTTGGTTGGAAGCCCCTGACCTGCTCTTGGCTGAAGTTGACCTTCTAAACTGGACGGCGCACAAG
GGCTGGCACTGGAATAGGAGAGAACCCTGGTATAGGAGGCCCCAGCAACTGTATCATCTGGATGC
CACTGTTCCCTGAGGATCAACAGTGAGGCAAGCAGGGCTGCTTTTACCAGCAGGAGGAAGCAACTGATG
GTGTCCATGCCCTCTGACAGCGCCTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203954 representing NM_029406
Red=Cloning site Green=Tags(s)

MADSTFLAPELSDTESMGEETVRFQELLLKASKELQQAQTARPDSTQIQPKPGFCVKTNSSSEKVFINIC
 HSPSIPPPADVTEDELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAYDVAVNSNFYLRMQNSDFLRE
 LVVTIAREGLEDKYGLQLNPEWRMLKYRSFLGSI SQQNIRSQQRPRIQELGTLDASGSLGTCHGPERPHL
 NLWLEAPDLLLAEVDLPKLDGAQGLALEIGENRLVIGGPQQLYHLDATVPLRINSEASRAAFHRRRKQLM
 VSMPLLTAPS

TRTRPLE - GFP Tag - V

Restriction Sites:

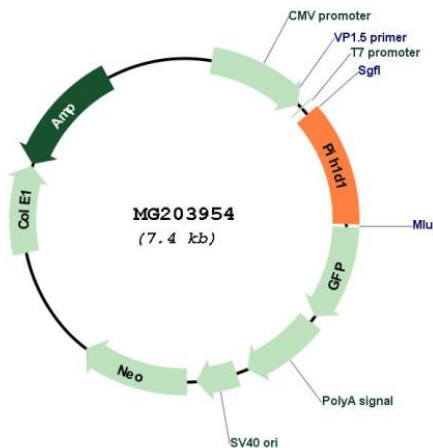
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_029406

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:	<ol style="list-style-type: none">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_029406.1 , NP_083682.1
RefSeq Size:	1102 bp
RefSeq ORF:	873 bp
Locus ID:	68845
UniProt ID:	Q9CQJ2
Cytogenetics:	7 B3
Gene Summary:	Involved in the assembly of C/D box small nucleolar ribonucleoprotein (snoRNP) particles. Recruits the SWI/SNF complex to the core promoter of rRNA genes and enhances pre-rRNA transcription. Mediates interaction of TELO2 with the R2TP complex which is necessary for the stability of MTOR and SMG1. Positively regulates the assembly and activity of the mTORC1 complex.[UniProtKB/Swiss-Prot Function]