

Product datasheet for **MR202570**

Pithd1 (NM_025411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pithd1 (NM_025411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pithd1
Synonyms:	1110049F12Rik; AA408179; Trp26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202570 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCACGGCCACAGCCACGGCGGGGGCGGCTGTCGCTGCGCCGCTGAGCGCAGGAGCCGCCGAGC
AGCGCGGCTGGCTACGGGCTGTACCTGCGCATCGACCTGGAGCGACTGCAGTGCCTCAACGAGAGCCG
CGAGGGCAGCGGCCGCGGCTTCAAGCCGTGGGAGGAGCGGACCGACCGCTCCAAGTTTGTGAAAGT
GATGCGGACGAAGAGCTCCTGTTAATATTCGGTTTACGGGCAATGTCAAGCTGAAAGGCGTCATCATAA
TGGGCGAGGATGATGACTCGCACCCCTCGGAGATGAGACTGTACAAGAACATTCCACAGATGTCATTGA
TGACACAGAAAGGAGCCAGAGCAGACCTTCAGTCTGAACCGAGACATTACAGGAGAATTAGAATATGCT
ACGAAAATCTCCAGGTTTTCAAATGTCTATCATCTTCCATTTCATATTTCAAAAACTTTGGAGCAGATA
CGACGAAGATCTTTTATATTGGCCTGCGGGGAGAGTGGACTGAGCTTCGCCGGCATGAGGTGACCATCTG
CAACTATGAAGCGTCAGCCAACCCAGCAGACCACCGGGTGCATCAGGTCACCCCGCAGACACACTTCATT
TCT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202570 protein sequence
Red=Cloning site Green=Tags(s)

MSHGSHSHGGGCRCAAEREPEQRGLAYGLYLRLIDLERLQCLNESREGSGRGVFKPWEERTDRSKFVES
 DADEELLFNIPFTGNVKLKGVIIMGEDDDSHPSMRLYKNIPQMSFDDTEREPEQTFSLNRDITGELEYA
 TKISRFSNVYHLSIHISKNFADTTKIFYIGLRGEWTELRRHEVTICNYEASANPADHRVHQVTPQTHFI
 S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_025411

ORF Size: 636 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_025411.4](#), [NP_079687.3](#)

RefSeq Size: 1554 bp

RefSeq ORF: 636 bp

Locus ID: 66193

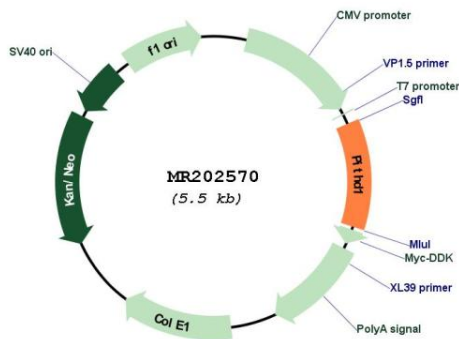
UniProt ID: [Q8BWR2](#)

Cytogenetics: 4 D3

MW: 24.2 kDa

Gene Summary: Promotes megakaryocyte differentiation by up-regulating RUNX1 expression (PubMed:25134913). Regulates RUNX1 expression by activating the proximal promoter of the RUNX1 gene and by enhancing the translation activity of an internal ribosome entry site (IRES) element in the RUNX1 gene (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202570