

Product datasheet for MR202256

Thap1 (NM_199042) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Thap1 (NM_199042) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Thap1
Synonyms: 4833431A01Rik; AW490810
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202256 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTGCAGTCCTGCTCCGCCTACGGCTGCAAGAACCCTACGACAAGGACAAGCCCGTCTCCTTCCACA
 AGTTTCTCTTACTCGCCCCAGCCTTTGTAAGCAGTGGGAGGCAGCTGTTAAAAGGAAAACTTCAAGCC
 CACCAAGTACAGCAGCATCTGCTCGGAGCACTCACCCCGACTGCTTTAAGAGGGAGTGAACAACAAG
 CTACTGAAGGAGAACGCTGTGCCACAATTTCTCTATATCGAGCCACATGAGAAGAAGGAAGACTGG
 AATCCCAAGAACAGCTCCCTCTCCTTACCCCGCTTCCCAGGTTGATGCTGCTATTGGGCTGCTAAT
 GCCCCCTCTGCAGACCCCTGATAACCTGTCTGGTTTTCTGTGACCAACAATTACACTGTGGAGGATACGATG
 CACCAGAGGAAGAGGATCCTGCAGCTGGAGCAGCAGGTGGAGAACTCAGGAAGAAGCTCAAGACGGCCC
 AGCAGCGGTGCCGGCGCAGGAGAGGCAGCTCGAGAAGCTCAAGGAAGTCGTCCTTTTTCAGAGAGAGAA
 GGACGACGCGTCCGAGAGGGCTACGTGATCCTACAAATGACTACTTTGAAATTGTTGAAGTCCAGCA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202256 protein sequence
 Red=Cloning site Green=Tags(s)

MVQSCSAYGCKNRYDKDKPVSFHKFPLTRPSLCKQWEAAVKRKNFKPTKYSSICSEHFTPDCFKRECNNK
 LLKENAVPTIFLYIEPHEKKEDLESQQLPSPSPASQVDAIIGLLMPPLQTPDNLVFCDHNYTVEDTM
 HQRKRILQLEQQVEKLRKLLKTAQQRCCRQERQLEKLEVVHFQREKDDASERGVYILPNDFEIVEVPA

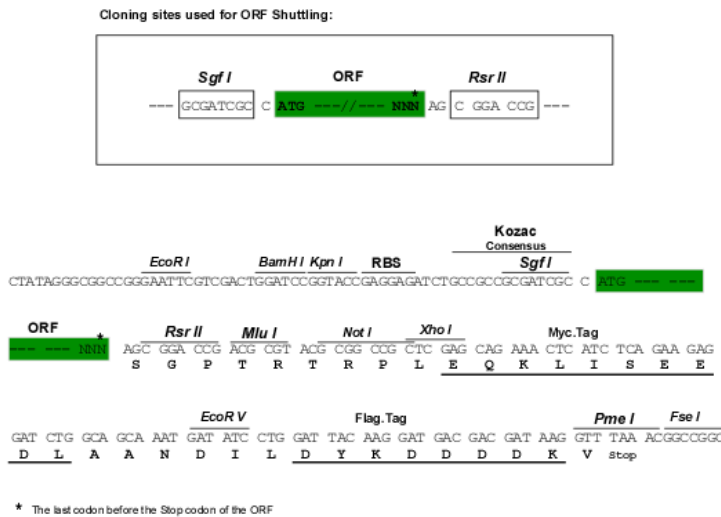
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_199042

ORF Size: 633 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_199042.2](#)

RefSeq Size: 2267 bp

RefSeq ORF: 633 bp

Locus ID: 73754

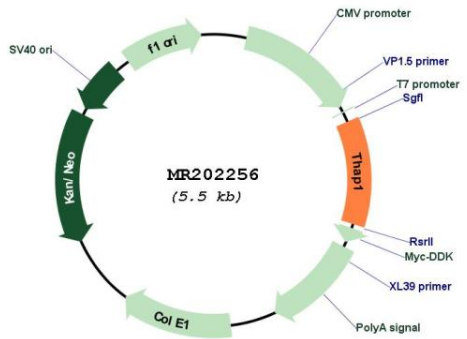
UniProt ID: [Q8CHW1](#)

Cytogenetics: 8 A2

MW: 24.6 kDa

Gene Summary: DNA-binding transcription regulator that regulates endothelial cell proliferation and G1/S cell-cycle progression. Specifically binds the 5'-[AT]NTNN[GT]GGCA[AGT]-3' core DNA sequence and acts by modulating expression of pRB-E2F cell-cycle target genes, including RRM1. Component of a THAP1/THAP3-HCFC1-OGT complex that is required for the regulation of the transcriptional activity of RRM1. May also have pro-apoptotic activity by potentiating both serum-withdrawal and TNF-induced apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202256