

## Product datasheet for **RR212698**

### Thap1 (NM\_001008340) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Thap1 (NM\_001008340) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Thap1  
**Synonyms:** MGC105527  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR212698 representing NM\_001008340  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGCAGTCCTGTTCCGCCTACGGCTGCAAGAACCGGTACGATAAGGACAAGCCCGTCTCCTTCCACA  
AGTTTCCTTTACTCGTCCAGTCTTTGTAACAGTGGGAGCAGCTGTTAGAAGGAAAACTTCAAGCC  
CACTAAGTACAGCAGTATCTGTTCCGAGCACTTTACTCCAGACTGCTTTAAGAGAGAGTGAACAACAAG  
CTACTGAAGGAGAACGCTGTGCCCACTATTTTCTCTATATAGAGCCACATGAGAAGAAGGAAAGTGG  
AACCCCAAGAGCAGCTTCCCTCTCCTTACCCCCCACTTCCCAGGTTGACGCCGCTGTTGGGTTGCTAAT  
GCCTCCTCTCCAGACCCCTGATAACCTCTCAGTTTCTGTGACCACAACACTACTGTGGAGGACACAATG  
CACCAGAGGAAGAGGATCCTTCACTGGAGCAGCAGGTTGAAAAGCTCAGGAAGAACTCAAGACCGCCC  
AGCAGCGGTGCCGTGGCAGGAGAGACAGCTCGAGAAGCTCAAGGAAGTTGTACTTTTCCAGAGAGAGAA  
AGACGACGCTCGGAGAGGGCTATGTGATTCTACCAAATGACTACTTCGAAATTGTTGAAGTCCAGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR212698 representing NM\_001008340  
Red=Cloning site Green=Tags(s)

MVQSCSAYGCKNRYDKDKPVSFHKFPLTRPSLCKQWEAAVRRKNFKPTKYSSICSEHFTPDCKKRECNK  
LLKENAVPTIFLYIEPHEKKEELEPQEQLPSPSPPTSQVDAAVGLLMPPLQTPDNLVDFCDHNYTVEDTM  
HQKRKILHLEQQVEKLRKLLKTAQQRQRQERQLEKLKEVVHFQREKDDASERGYVILPNDYFEIVEVPA

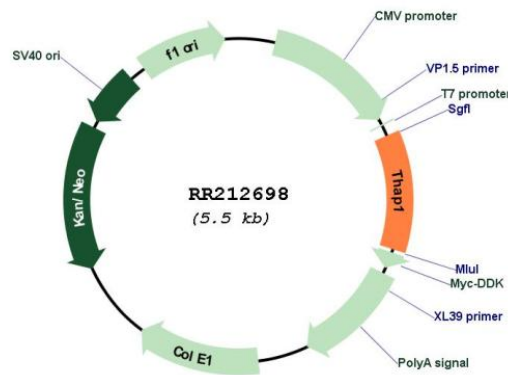
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001008340

**ORF Size:** 630 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\\_001008340.1](#), [NP\\_001008341.1](#)

**RefSeq Size:** 1100 bp

**RefSeq ORF:** 633 bp

**Locus ID:** 306547

**UniProt ID:** [Q5U208](#)

**Cytogenetics:** 16q12.4

**MW:** 24.7 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. May also have pro-apoptotic activity by potentiating both serum-withdrawal and TNF-induced apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]