

Product datasheet for **RC208844**

THAP5 (NM_182529) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: THAP5 (NM_182529) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: THAP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208844 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTAACTCTTAATCTAGTTAAACAACATACTGGGAAACCAGAATCTACCTTGGAAACATCAGTTAACC
 AAGATACAGGTAGAGGTGGTTTTACACATGTTTTGAGAATCTAAATTCTACAACATTACTTTGACAAC
 TTCAAATTCAGAAAGTATTCATCAATCTTTGGAAACTCAAGAAGTCTTGAAGTAACTACCAGTCATCTT
 GCTAATCCAAACTTTACAAGTAATCCATGGAAATAAAGTCAGCACAGGAAAAATCCATTCTTATTCAGCA
 CAATTAATCAAACAGTTGAAGAATTAACACAAAATAAAGAATCTGTTATTGCCATTTTGTACCTGCTGA
 AAATTCTAAACCCTCAGTTAATCTTTTTATCTGCACAAAAAGAAACCACGGAATGGAAGACACAGAC
 ATTGAAGACTCCTTGATAAGGATGTAGACTATGGGACAGAAGTTTTACAAATCGAACATTCTTACTGCA
 GACAAGATATAAATAAGGAACATCTTTGGCAGAAAGTCTCTAAGCTACATTCAAAGATAACTCTTCTAGA
 GTTAAAAGAGCAACAACTCTAGGTAGATTGAAGTCTTTGGAAGCTCTTAAGGCAGCTAAAGCAGGAA
 AACTGGCTATCTGAAGAAAACGTCAGATTATAGAAAACCATTTTACAACATATGAAGTCACTATGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208844 protein sequence
 Red=Cloning site Green=Tags(s)

MLTLNLVKQHTGKPESTLETSVNQDTGRGGFHTCFENLNSTTITLTTNSSESIHQSLQEVLEVTTSHL
 ANPNFTSMEIKSAQENPFLFSTINQTVLNTNKEVIAIFVPAENSKPSVNSFISAQKETTEMEDTD
 IEDSLYKDVDYGTVEVLQIEHSYCRQDINKEHLWQKVKLSKILLLELKEQQLGRLKSLEALIRQLKQE
 NWLSEENVKIIENHFTTYEVTMI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

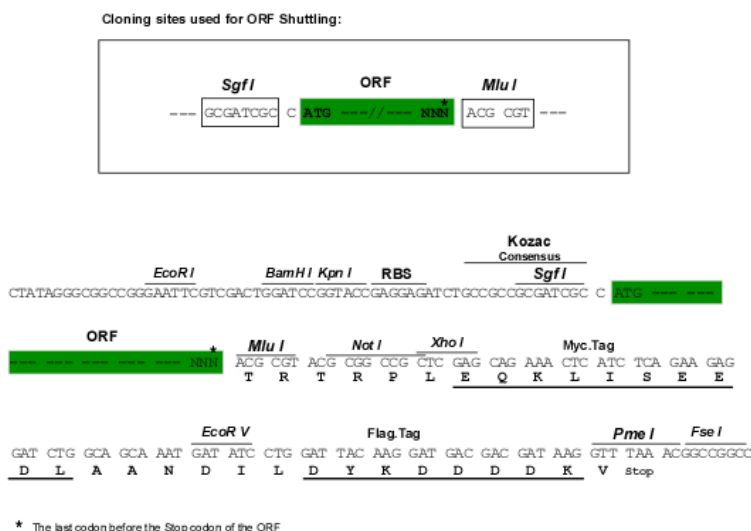


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Chromatograms: https://cdn.origene.com/chromatograms/mk6362_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182529

ORF Size: 699 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_182529.1](#), [NP_872335.1](#)

RefSeq Size: 3510 bp

RefSeq ORF: 1062 bp

Locus ID: 168451

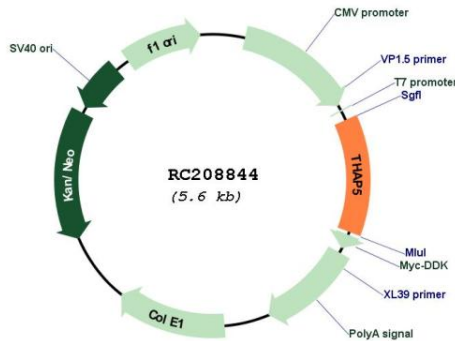
UniProt ID: [Q7Z6K1](#)

Cytogenetics: 7q31.1

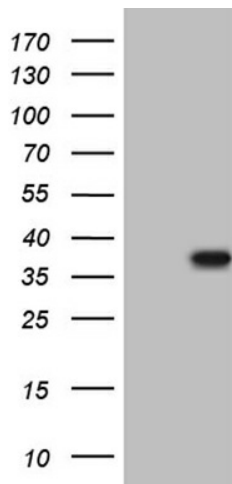
MW: 26.6 kDa

Gene Summary: Has sequence-specific DNA-binding activity and can function as transcriptional repressor (in vitro) (PubMed:21110952). May be a regulator of cell cycle: THAP5 overexpression in human cell lines causes cell cycle arrest at G2/M phase (PubMed:19502560).[UniProtKB/Swiss-Prot Function]

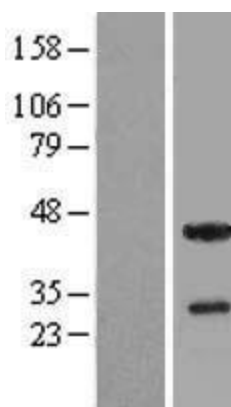
Product images:



Circular map for RC208844



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY THAP5 (Cat# RC208844, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-THAP5 (Cat# [TA810675])(1:2000). Positive lysates [LY405506] (100ug) and [LC405506] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY405506]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).