

Product datasheet for **RC228099**

THAP4 (NM_001164356) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: THAP4 (NM_001164356) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: THAP4
Synonyms: CGI-36; Nb(III); PP238
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228099 representing NM_001164356
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCCCAAGATGAACCCAGTGGTGGAGCCACTGTCTGGATGCTGGGCACCTGGCTGTCCGACC
CACCTGGAGCCGGGACCTACCCACACTGCAGCCCTTCCAGTACCTGGAGGAGTTACATCTCCCACGT
GGGCCAGCCCATGCTGAACCTCTCGTTCAACTCCTTCCACCCGGACACGCGCAAGCCGATGCACAGAGAG
TGTGGCTTCATTGCCTCAAGCCCGACACCAACAAGTGGCTTTGTGAGCGCCAGAACACAGGCGTGG
TGAAGTGGAGGAGGGCGAGGTGAACGGGCAGGAGCTGTGCATCGCATCCACTCCATCGCCAGGATCTC
CTTCGCCAAGGAGCCCCACGTAGAGCAGATCACCCGGAAGTTCAGGCTGAATTCTGAAGGCAAACCTGAG
CAGACGGTCTCCATGGCAACCACGACACAGCCAATGACTCAGCATCTTACGTCACCTACAAGAAGGTGA
CCCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228099 representing NM_001164356
Red=Cloning site Green=Tags(s)

MEPPKMNPVVEPLSWMLGTWLSPPGAGTYPTLQPFQYLEEVHISHVGPMLNFSFNSFHPDTRKPMHRE
CGFIRLKPDTNKVAFVSAQNTGVVEVEEGEVNGQELCIASHSIARISFAKEPHVEQITRKFRNLNSEGKLE
QTVSMATTTQPMQHLHVTYKVVTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

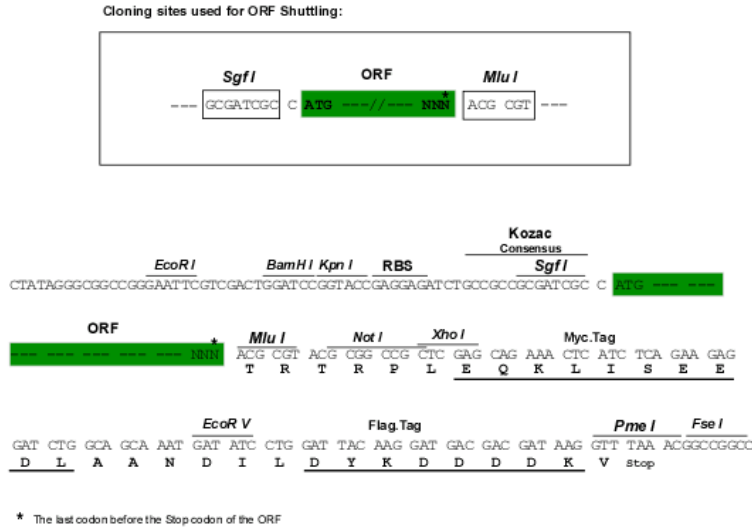
Chromatograms: https://cdn.origene.com/chromatograms/mk8039_a04.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164356

ORF Size: 495 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_001164356.1](#), [NP_001157828.1](#)

RefSeq ORF: 498 bp

Locus ID: 51078

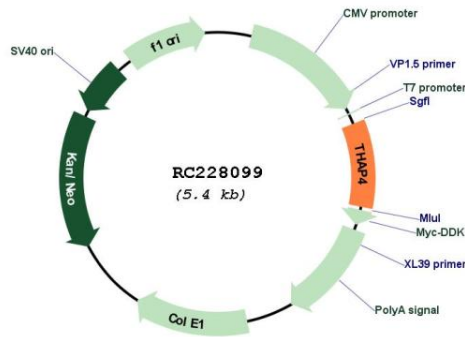
UniProt ID: [Q8WY91](#)

Cytogenetics: 2q37.3

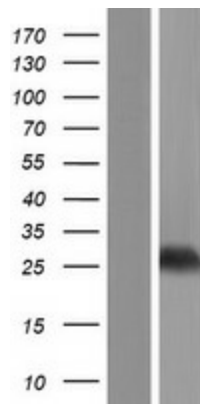
MW: 18.4 kDa

Gene Summary: In vitro catalyzes the heme-based conversion of peroxyxynitrite into nitrate/NO₃⁻. May be involved in the detoxification of peroxyxynitrite which is responsible for the nitration of L-free tyrosine (PubMed:30524950). Also selectively binds nitric oxide/NO in vitro (PubMed:30524950).[UniProtKB/Swiss-Prot Function]

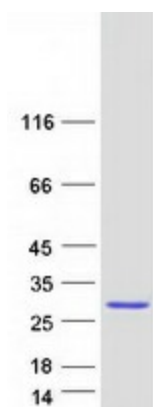
Product images:



Circular map for RC228099



Western blot validation of overexpression lysate (Cat# [LY431127]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228099 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified THAP4 protein (Cat# [TP328099]). The protein was produced from HEK293T cells transfected with THAP4 cDNA clone (Cat# RC228099) using MegaTran 2.0 (Cat# [TT210002]).