

## Product datasheet for **SC108795**

### THAP4 (NM\_015963) Human Untagged Clone

#### Product data:

|                    |                        |
|--------------------|------------------------|
| Product Type:      | Expression Plasmids    |
| Tag:               | Tag Free               |
| Symbol:            | THAP4                  |
| Synonyms:          | CGI-36; Nb(III); PP238 |
| Mammalian Cell     | None                   |
| Selection:         |                        |
| Vector:            | <u>pCMV6-XL5</u>       |
| E. coli Selection: | Ampicillin (100 ug/mL) |



**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_015963, the custom clone sequence may differ by one or more nucleotides

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ATGGTGATCTGCTGTGCGGCCGTGAAGTCTCAACCGCAGGGAAGGGCGAGAAGCGCGCGTCTCCT
TCCACAGGTTCCCCCTAAAGGACTCAAACGTCTAATCCAATGGTTAAAAGCTGTTAGAGGGATAACTG
GACTCCCACTAAGTATTCATTTCTGTAGTGAGCATTTACCAAAGACAGCTTCTCAAGAGGCTGGAG
GACCAGCATCGCCTGCTGAAGCCACGGCCGTGCCATCCATCTTCCACCTGACCGAGAAGAAGAGGGGG
CTGGAGGCCATGGCCGACCCGGAGAAAAGATGCCAGCAAGGCCACAGGGGGTGTGAGGGGACACTCGAG
TGCCGCCACCCAGCAGAGGAGTGCAGGTTGGTCACCGTCTCGAGTGGAACCCGATGGCCAAGCCAGAG
TCCCGCAGGTTGAAGCAAGCTGCTCTGCAAGGTGAAGCCACACCCAGGGCGGCCAGGAGGCCGCCAGCC
AGGAGCAGGCCAGCAAGCTCTGGAACGGACTCCAGGAGATGGACTGGCCACCATGGTGCCAGGCAGTCA
GGGAAAAGCAGAAGCGTCTGCCACAGATGCTGGCGATGAGAGCGCCACTTCTCCATCGAAGGGGCGTG
ACAGATAAGAGTGGCATTTCTATGGATGACTTTACGCCCCAGGATCTGGGGCGTGCAATTTATCGGCT
CACTTCATTCTGACAGTTTCTCTCTAAGCACACCCGAGAAAGGCCATCTGTCCCCGAGAGCCCATTTGA
CCGCAAGAGGCTGAAGAAAGATGTGGAACCAAGCTGCAGTGGGAGCAGCCTGGGACCCGACAAGGGCCTG
GCCCAGAGCCCTCCAGCTCATCACTTACCGCGACACCGCAGAAGCCTTCCCAGAGCCCTCTGCCCTC
CTGCCGACGTACCCCCAAGCCAGCCACGGAAGCCGTGCAGAGCGAGCAGCGACGCCAGCCCCATGTC
CATCAACGAGGTCTCTGTGCGGCTCAGGGGCTGCAAGCTCATCGACTACTGCCTCTACTGCTTC
TCTCCCGGAGCAACAAGAGCCAGGTGTGCTGCCTGCGGGAGCAGGTGGAGAAGAAGAACGGCGAGCTGA
AGAGCCTGCGGCAGAGGCTCAGCCGCTCCGACAGCCAGGTGCGGAAGCTACAGGAGAAGCTGGATGAGCT
GAGGAGAGTGAGCGTCCCCTATCCAAGTAGCCTGCTGTGCGCCAGCCGCGAGCCCCCAAGATGAACCCA
GTGGTGGAGCCACTGTCTGGATGCTGGGCACCTGGCTGTGCGACCCACCTGGAGCCGGGACCTACCCCA
CACTGCAGCCCTTCCAGTACCTGGAGGAGTTACATCTCCACGTGGGCCAGCCCATGCTGAATTTCTC
GTTCAACTCCTTCCACCCGACACGCGCAAGCCGATGCACAGAGAGTGTGGCTTCATTGCGCTCAAGCCC
GACACCAACAAGGTGGCCTTTGTGACGCGCCAGAACACAGGCGTGGTGGAAGTGAGGAGGGGCGAGGTGA
ACGGGCAGGAGCTGTGCATCGCATCCCACTCCATCGCCAGGATCTCTTCGCCAAGGAGCCCCACGTAGA
GCAGATCACCCGGAAGTTCAGGCTGAATTCTGAAGGCAAACTTGAGCAGACGGTCTCCATGGCAACCACG
ACACAGCCAATGACTCAGCATCTTACGTACCTACAAGAAGGTGACCCCGTAA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015963 unedited

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TAGTATTATGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGGTGCCATCC
ATCTTCCACCTGACCGAGAAGAAGAGGGGGCTGGAGGCCATGGCCACACCCGAGAAAAAG
ATGCCAGCAAGGCCACAGGGGGTGTGAGGGGACACTCGAGTGCCGCCACCAGCAGAGGAG
CTGCAGGTTGGTCACCGTCTCGAGTGGAACCCGATGGCCAAGCCAGAGTCCCGCAGGT
TGAAGCAAGCTGCTCTGCAAGGTGAAGCCACACCCAGGGCGGCCAGGAGGCCGCCAGCC
AGGAGCAGGCCAGCAAGCTCTGGAACGGACTCCAGGAGATGGACTGGCCACCATGGTGG
CAGGCAGTCAGGGAAAAGCAGAAGCGTCTGCCACAGATGCTGGCGATGAGAGCGCCACTT
CCTCCATCGAAGGGGGCGTGACAGATAAGAGTGGCATTCTATGGATGACTTTACGCCCC
CAGGATCTGGGGCGTGCAATTTATCGGCTCACTTCATTCTGACAGTTTCTCCTCTAAGC
ACACCCGAGAAAGGCCATCTGTCCCCGAGAGCCATTGACCGCAAGAGGCTGAAGAAAG
ATGTGGAACCAAGCTGCAGTGGGAGCAGCCTGNGACCCGACAAGGGCCTGGCCAGAGCC
CTCCAGCTCATCACTTACCGCGACACCGCAGAAGCCTTCCAGAGCCCTCTGCCCTC
CTGCCGACGTACCCCCAAGCCAGCCACGGAAGCCCTGCAGAGCGAGCACAGNACGCCAG
CCCCATGTCCATCAACGAGTCATTCTGTNCGCGTCAGGGGCTGCCAGCTCATCGACTCA
CTGCACTTCTACTGCTTCTNCTCCGGCAGAACAGAGCCANGTGTGCTGCCTGCGGGNAG
CAGTGGAGAANAANAACGCGAGCTGTAAACCTTCGGCAGNAGGTANCCGCTCCGACA
AGCAGTTGCGGAAGCTACG
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|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_015963 unedited</p> <pre> AATTACTGTGNANCGCGGCCGTTTTCTANATCGAGTTTTTTTTTTTTTTAATAT TCAAAATCCTCAGCCATAAAAAATAAGGCCTTTATTTGGTTTTCTATGCCAGTACAGA AACATCTGGACAACACTCTTGAGCCTGCAGAGGCTCACGGCCACACCCACTTCTGCCGCA GGGACTGTCTGTTGAGGAGCCGAACCGTTGAGGCACAGTAGCCAGGCCCTCCGAGGGCT CCAGAAGCTCTAGGTTTACGGGGTCACCTTCTGTAGGTGACGTGAAGATGCTGAGTCAT TGGCTGTGTCGTGGTTGCCATGGAGACCGTCTGCTCAAGTTTGCCTTCAGAATTCAGCCT GAACCTCCGGGTGATCTGCTCTACGTGGGGCTCCTTGGCGAAGGAGATCCTGGCGATGGA GTGGGATGCGATGCACAGCTCCTGCCCGTTACCTCGCCCTCCTCCACTCCACCACGCC TGTGTTCTGGGCGCTGACAAAGGCCACCTTGTGGTGTGCGGCTTGAGGCGAATGAAGCC ACACTCTCTGTGCATCGGCTTGCGCGTGTCCGGGTGGAAGGAGTTGAACGAGAAGTTCAG CATGGGCTGGCCACGTGGGAGATGTGAACCTCCTCCAGGTACTGGAAGGGCTGCAGTGT GGGGTAGTCCCGGCTCCAGGTGGGTCCGACAGCCNAGTGCCAGCATCCAGGACAGTGG CTCCACCACTGGGGTCATCTTGGGGGGCTCGCGGCTGGGCGACAGCAGGCTACTGGGATA GGGGACGCTCACTCTTCTCAGCTATCCAAGCTTTCCTGTAGCTCCACCTGCTGTCCGA CCGCTGACCCTTGCGGAAGCTCTTAATTCGGCGTTTTTTTTCCACCTGTCCGGAGGCAGA ACTG </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ACCN:</b>                        | NM_015963                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Insert Size:</b>                 | 1750 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Components:</b>                  | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Note:</b>                        | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq:</b>                      | <u><a href="#">NM_015963.2</a></u> , <u><a href="#">NP_057047.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq Size:</b>                 | 2245 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq ORF:</b>                  | 759 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Locus ID:</b>                    | 51078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**UniProt ID:** [Q8WY91](#)

**Cytogenetics:** 2q37.3

**Gene Summary:** In vitro catalyzes the heme-based conversion of peroxynitrite into nitrate/NO<sub>3</sub><sup>-</sup>. May be involved in the detoxification of peroxynitrite 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]  
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).