

Product datasheet for **RC231797**

THTPA (NM_001256323) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: THTPA (NM_001256323) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: THTPA
Synonyms: THTP; THTPASE
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231797 representing NM_001256323
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGCCCCAGGGCTTGATTGAGGTGGAGCGAAAGTTCCTCCAGGGCCTGGCACAGAGGAGCGGCTGCAGG
AGTTGGGGGCACCCTGGAGTACCGGGTCACCTCCGAGACACCTACTATGACACCCTGAGCTGAGCCT
CATGCAGGCTGACCACTGGCTGCGACGACGAGAGGATAGTGGATGGGAGCTCAAATGTCTTGAGCAGCA
GGTGTCTTAGGACCCACACGGAGTATAAGGAACTCACAGCGGAACCTACAATTGTGGCCAACTCTGTG
TGCTGCACAGGAGACAGCACCAGCCAAGCTGATTGTGTATCTACAGCGTTTCCGGCCTCAAGACTATCA
GCGCTGCTAGAAGTGAACAGCTCCAGAGAGAGGCCACAGGAGACTGAAGATCCTGACCACTGCCTGGGC**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC231797 representing NM_001256323
Red=Cloning site Green=Tags(s)
MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDYDYDPELSLMQADHWLRRREDSGWELKCPGAA
GVLGPHTYEKELTAEPTIVAQLCVPAQETAPAKLIVYLQFRFPQDYQRLLEVNSSRERPQETEDPDHCLG

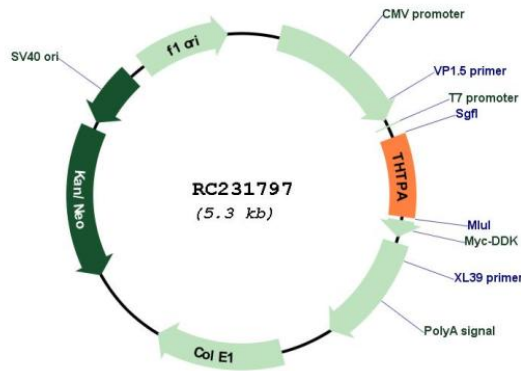
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001256323

ORF Size: 420 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:	<ol style="list-style-type: none">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:	<u>NM_001256323.2</u> , <u>NP_001243252.1</u>
RefSeq Size:	1559 bp
RefSeq ORF:	423 bp
Locus ID:	79178
UniProt ID:	<u>Q9BU02</u>
Cytogenetics:	14q11.2
Protein Pathways:	Metabolic pathways, Thiamine metabolism
MW:	16.5 kDa
Gene Summary:	This gene encodes an enzyme which catalyzes the biosynthesis of thiamine disphosphate (vitamin B1) by hydrolysis of thiamine triphosphate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]