

Product datasheet for **RC231646**

THTPA (NM_001256321) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: THTPA (NM_001256321) 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: >RC231646 representing NM_001256321
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCCAGGGCTTGATTGAGGTGGAGCGAAAGTTCCTCCAGGGCCTGGCACAGAGGAGCGGCTGCAGG
AGTTGGGGGGCACCTGGAGTACCGGGTCACCTCCGAGACACCTACTATGACACCCTGAGCTGAGCCT
CATGCAGGCTGACCACTGGCTGCGACGACGAGAGGATAGTGGATGGGAGCTCAAATGTCTGGAGCAGCA
GGTGTCTTAGGACCCACACGGAGTATAAGGAACCTCACAGCGGAACCTACAATTGTGCCCAACTCTGTA
AGGTGTGCCTGCACAGGAGACAGCACCAGCCAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231646 representing NM_001256321
Red=Cloning site Green=Tags(s)

MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDYYDTPELSLMQADHWLRRREDSGWELKCPGAA
GVLGPHTHEYKELTAEPTIVAQLCKVCLHRRHQPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

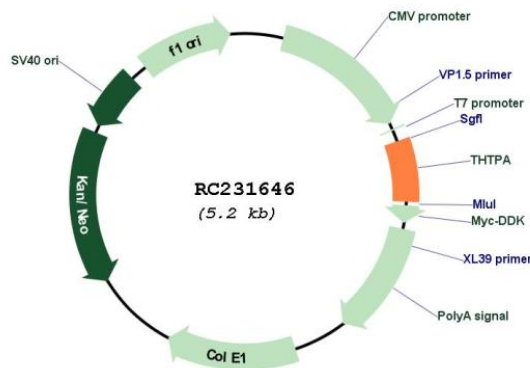


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001256321

ORF Size: 315 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_001256321.2</u> , <u>NP_001243250.1</u>
RefSeq Size:	1564 bp
RefSeq ORF:	318 bp
Locus ID:	79178
UniProt ID:	<u>Q9BU02</u>
Cytogenetics:	14q11.2
Protein Pathways:	Metabolic pathways, Thiamine metabolism
MW:	12.5 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]