

Product datasheet for **RG200849**

THTPA (NM_024328) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: THTPA (NM_024328) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: THTPA
Synonyms: THTP; THTPASE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200849 representing NM_024328
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGGCTTGATTGAGGTGGAGCGAAAGTTCCTCCAGGGCTGGCACAGAGGAGCGGCTGCAGG
AGTTGGGGGGCACCCCTGGAGTACCGGTACCTCCGAGACACCTACTATGACACCCCTGAGCTGAGCCT
CATGCAGGCTGACCACTGGCTGCGACGACGAGAGGATAGTGGATGGGAGCTCAAATGTCCTGGAGCAGCA
GGTGTCTTAGGACCCACACGGAGTATAAGGAACTCACAGCGGAACCTACAATTGTGCCCAACTCTGTA
AGGTGCTGCGGGCTGACGGCCTGGGGCTGGAGATGTGGCTGCTGTGCTGGGCCACTGGGGCTGCAGGA
AGTAGCTAGTTTTGTGACTAAGCGGAGTGCCTGGAAGCTGGTGTCTTGGGAGCTGATGAAGAGGAGCCA
CAGCTCAGGGTGGACTTGATACAGCCGACTTTGGCTACGCTGTGGGTGAGGTAGAGGCCCTGGTGCATG
AGGAGGCTGAAGTACCACTGCCCTAGAGAAGATCCACAGGCTCAGCAGCATGCTTGGTGTGCCTGCACA
GGAGACAGCACCAGCCAAGCTGATTGTGTATCTACAGCGTTTCCGGCCTCAAGACTATCAGCGCCTGCTA
GAAGTGAACAGCTCCAGAGAGAGGCCACAGGAGACTGAAGATCCTGACCACTGCCTGGGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200849 representing NM_024328
 Red=Cloning site Green=Tags(s)

MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDYYDTPELSLMQADHWLRRREDSGWELKCPGAA
 GVLGPHTYKELTAEPTIVAQLCKVLRADGLGAGDVAAVLGPLGLQEVASFVTKRSAWKL VLLGADEEEP
 QLRVDLDTADFGYAVGEVALVHEEAEPVTALEKIHRLSSMLGVPAQETAPAKLIVYLQRFQDYQRLL
 EVNSSRERPQETEDPDHCLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024328

ORF Size: 690 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_024328.6](#)

RefSeq Size: 2132 bp

RefSeq ORF: 693 bp

Locus ID: 79178

UniProt ID: [Q9BU02](#)

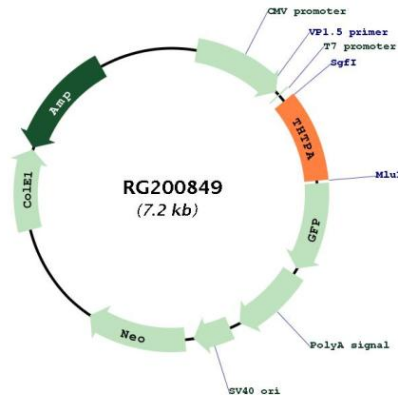
Cytogenetics: 14q11.2

Domains: CYTH

Protein Pathways: Metabolic pathways, Thiamine metabolism

Gene Summary: This gene encodes an enzyme which catalyzes the biosynthesis of thiamine diphosphate (vitamin B1) by hydrolysis of thiamine triphosphate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG200849