

Product datasheet for **RG225287**

THTPA (NM_001126339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THTPA (NM_001126339) 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:	>RG225287 representing NM_001126339 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGGCTTGATTGAGGTGGAGCGAAAGTTCCTCCAGGGCCTGGCACAGAGGAGCGGCTGCAGG
AGTTGGGGGGCACCCCTGGAGTACCGGTCACCTCCGAGACACCTACTATGACACCCCTGAGCTGAGCCT
CATGCAGGCTGACCACTGGCTGCGACGACGAGAGGATAGTGGATGGGAGCTCAAATGTCCTGGAGCAGCA
GGTGTCTTAGGACCCACACGGAGTATAAGGAACTCACAGCGAACCTACAATTGTGCCCAACTCTGTA
AGGTGCTCGGGGCTGACGGCCTGGGGGCTGGAGATGTGGCTGCTGTGCTGGGCCACTGGGGCTGCAGGA
AGTAGCTAGTTTTGTGACTAAGCGGAGTGCCTGGAAGCTGGTGTCTTGGGAGCTGATGAAGAGGAGCCA
CAGCTCAGGGTGGACTTGATACAGCCGACTTTGGCTACGCTGTGGGTGAGGTAGAGGCCCTGGTGCATG
AGGAGGCTGAAGTACCACTGCCCTAGAGAAGATCCACAGGCTCAGCAGCATGCTTGGTGTGCCTGCACA
GGAGACAGCACCAGCCAAGCTGATTGTGTATCTACAGCGTTTCCGGCCTCAAGACTATCAGCGCCTGCTA
GAAGTGAACAGCTCCAGAGAGAGGCCACAGGAGACTGAAGATCCTGACCACTGCCTGGGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225287 representing NM_001126339
Red=Cloning site Green=Tags(s)

MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDYYDTPELSLMQADHWLRRREDSGWELKCPGAA
 GVLGPHTYEKELTAEPTIVAQLCKVLRADGLGAGDVAAVLGPLGLQEVASFVTKRSAWKL VLLGADEEPP
 QLRVDLDTADFGYAVGEVEALVHEEAEPVTALEKIHRLSSMLGVPAQETAPAKLIVYLRFRPQDYQRLL
 EVNSSRERPQETEDPDHCLG

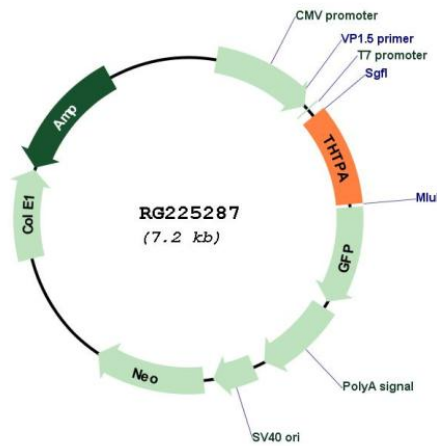
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001126339

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:	<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:	NM_001126339.3 , NP_001119811.1
RefSeq Size:	1797 bp
RefSeq ORF:	693 bp
Locus ID:	79178
UniProt ID:	Q9BU02
Cytogenetics:	14q11.2
Protein Pathways:	Metabolic pathways, Thiamine metabolism
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]