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Product datasheet for RG231646

THTPA (NM_001256321) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THTPA (NM_001256321) 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:	>RG231646 representing NM_001256321 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCCAGGGCTTGATTGAGGTGGAGCGAAAGTTCCTTCCAGGGCCTGGCACAGAGGAGCGGCTGCAGG AGTTGGGGGGCACCCTGGAGTACCGGGTCACCTTCCGAGACACCTACTATGACACCCCTGAGCTGAGCCT CATGCAGGCTGACCACTGGCTGCGACGACGAGAGGATAGTGGATGGGAGCTCAAATGTCCTGGAGCAGCA GGTGTCTTAGGACCCCACACGGAGTATAAGGAACTCACAGCGGAACCTACAATTGTGGCCCAACTCTGTA AGGTGTGCCTGCACAGGAGACAGCACCAGCCAAGC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG231646 representing NM_001256321 Red=Cloning site Green=Tags(s) MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDTYYDTPELSLMQADHWLRRREDSGWELKCPGAA GVLGPHTEYKELTAEPTIVAQLCKVCLHRRQHQPS TRTRPLE - GFP Tag - V
Restriction Sites:	SgfI-MluI

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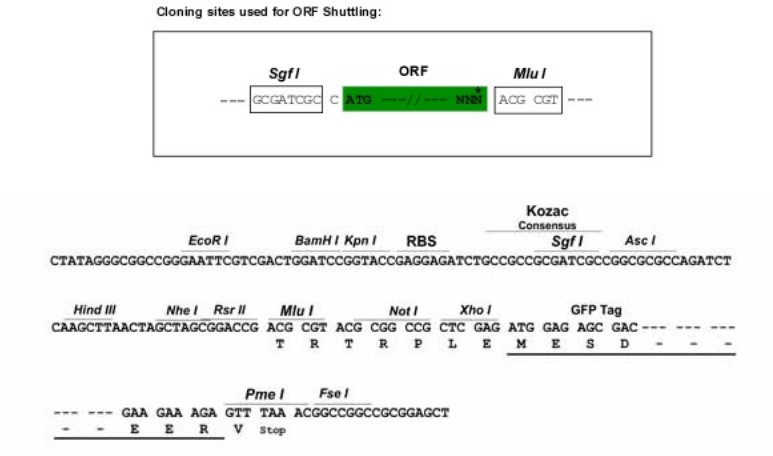
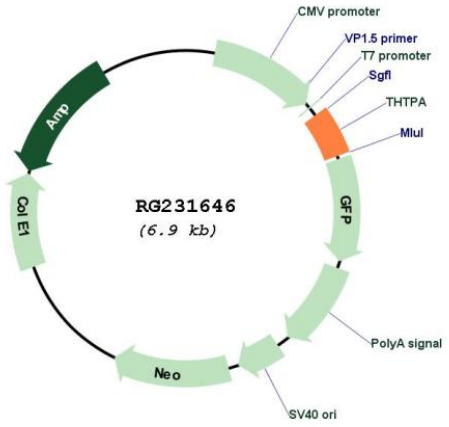
Cloning Scheme:



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:	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_001256321.2, NP_001243250.1
RefSeq Size:	1564 bp
RefSeq ORF:	318 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 disphophate (vitamin B1) by hydrolysis of thiamine triphosphate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]