

Product datasheet for **SC319455**

THTPA (NM_024328) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THTPA (NM_024328) Human Untagged Clone
Tag:	Tag Free
Symbol:	THTPA
Synonyms:	THTP; THTPASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024328.2
 GGCGTGGGCTCCCTTCCCCTCTGTGGGTCCC GCGAGGAGACTCTCGGGCTTTGAGGTGA
 GACCTGAAGTTCGCTGGCCGGTAGTGTAGCAGGAAAGGGCAGGTCTCCCGGTCGTGA
 GCCAGTAGCCTCCTGGGTGGCAAGGTGTAGAGAGGGGGCGTTGAAAGGACACCCGCTA
 CCCGGCCTGCTTCTAGGGGTCTTTGGATTGAGGACATCAGCAGCAGTGAAGGGATT
 TTA CTGGAGACCTGTCACTGT CAGAGCCTTAAAATATCACCAGCGGGCCTTAATGTCAC
 CGAGGTAGAGAGAAAAGGGCAGTAGCCCTAGAGACTATTGCGACACAGTGTGCCCTCAT
 AAGTTTTTCCAGGGAGGGTTCTGTACTGAGTTGACGCCCCAGGAGCTGAGCACCAGGCT
 TTGCATCCTTGGGAACTCAGCAAACGTTTGTTCAGCCAATTGCAGGTAGCATGGCCCAAG
 GCTTGATTGAGGTGGAGCGAAAGTTCCTTCCAGGGCCTGGCACAGAGGAGCGGCTGCAGG
 AGTTGGGGGGCACCTGGAGTACCGGTCACCTCCGAGACACCTACTATGACACCCCTG
 AGCTGAGCCTCATGCAGGCTGACCACTGGCTGCGACGACGAGAGGATAGTGGATGGGAGC
 TCAATGTCTGGAGCAGCAGGTGTCTTAGGACCCACACGGAGTATAAGGAACTCACAG
 CGGAACCTACAATTGTGGCCCACTCTGTAAGGTGCTGCGGGCTGACGGCCTGGGGGCTG
 GAGATGTGGCTGTGTGCTGGGCCCACTGGGGCTGCAGGAAGTAGCTAGTTTTGTGACTA
 AGCGGAGTGCCTGGAAGCTGGTGTCTTGGGAGCTGATGAAGAGGAGCCACAGCTCAGGG
 TGGACTTGATACAGCCGACTTTGGCTACGCTGTGGGTGAGGTAGAGGCCCTGGTGCATG
 AGGAGGCTGAAGTACCACTGCCCTAGAGAAGATCCACAGGCTCAGCAGCATGCTTGGTG
 TGCTGCACAGGAGACAGCACCAGCCAAGCTGATTGTGTATCTACAGCGTTTCCGGCCTC
 AAGACTATCAGCGCCTGTAGAAGTGAACAGCTCCAGAGAGAGGCCACAGGAGACTGAAG
 ATCCTGACCACTGCCTGGGCTAGGGGTGCACTTCTAGAAAGGGGAAGGAACTCTGGGT
 CTAACGGAGTCCACTCCTGGGCCACTGTGCCTCTCCCCTCAGTGTCCCTTCTGACAGTG
 ACTCCTCTCTCCAGCGCTGCCTGTTTTCTTCCCCTCCTAAGCTACTCTTCCCTTGAG
 CCCTCCCTGGCTGCTTCCCTCTCGCTCATCCGTCAGATGCAATCTGTGGCCGCCCCCTC
 CCCTGGCCGCTAAGCAGCCTCCATTGATTTCCGCTCGTGTATAGGATTTCCACTTAGC
 CGTGATCAGTAGTTAAGCACAGGAAAATCCCTTGCCACCCCCCTCCCTTGGTCGATGCC
 ATTGATTTGCCAGCGGCTCCTAAACCGCCTTACAGCTGAGTTAGAAGATGAGGAGAGGC
 AGCAGGGATTTCCCTGCCTTGGGATGTGGGAAACAGAAGAAAAGTTGAGGAAATGGTTGG
 GAATCGCTGTTAGAACTTAGAAATTCTAATCTGACTTTGCCACTGTGCCAGCTCTGGC
 CCAGAGGGTAGAGTGCCTCCTGTGGAAGTTAGGGGCAAATTTGTTCCCTGACCTGGAGA
 GGGTTAGAAAAGAACCAACAGCTGCCCCCTCCCCGCCCGTGTGAGACAGGTTCTCAAG
 GCTCAGGGGAAGATGCATACCTCCTATGTAAGAATGCTCTTCCCTTGCTTTATTCATAC
 ACACTTCCACTTCAAATATACCCAAATATGGCTTTCCTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_024328

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_024328.2](#), [NP_077304.1](#)

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 disphosphate (vitamin B1) by hydrolysis of thiamine triphosphate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Both variants 1 and 2 encode the same isoform.