

Product datasheet for **RC208877**

TTPA (NM_000370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TTPA
Synonyms:	alphaTTP; ATTP; AVED; TTPI
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC208877 representing NM_000370
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCAGAGGCGCGATCCAGCCCTCGGCGGGCCGCGAGCTCAACGCGCTACCGGACCACTCTCCGTTGC
TGCAGCCGGGCGCTGGCGGCGCTGCGGCGCCGGGCCGGAAGCTGGCGTCCCGCTCGCGCCGCTGCCGCT
CACCGACTCCTTCTGCTGCGGTTCTGCGCGCCCGGATTCGATCTGGACCTGGCCTGGCGGTTACTA
AAAACTATTATAAGTGGAGAGCAGAATGTCCAGAAATAAGTGCAGATCTACACCCTAGAAGTATTATTG
GCCTCCTAAAGGCTGGCTACCATGGAGTCTGAGATCCAGGGATCCCACTGGCAGCAAAGTTCTTATTTA
CAGAATCGCACACTGGGACCCCAAAGTTTTACAGCTTATGACGTATTTGAGTAAGTCTAATCACATCC
GAGCTTATTGTACAGGAGGTAGAACTCAGCGGAATGGAATCAAGGCTATCTTTGATCTGGAAGTTGGC
AGTTTTCTCATGCTTTTCAAATCACTCCATCCGTAGCCAAGAAGATTGCTGCTGTACTTACGGATTCATT
TCCATTGAAAGTTCTGTCATCCATTTGATAAATGAACAGTAATTTCCATGCTGTCTTTCCATGATC
AAACCATTCCTGACTGAAAAAATTAAGGAACGGATTACATGCATGGGAACAATAACAAAGCTTGC
TTCAGCATTTCCAGACATTCTTCTCTGGAATATGGTGGTGAAGAATTCTCCATGGAGGACATTTGTCA
GGAATGGACAAATTTTATAATGAAGTCTGAAGATTATCTCAGCAGCATTTCTGAGAGCATTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC208877 representing NM_000370

Red=Cloning site Green=Tags(s)

MAEARSQPSAGPQLNALPDHSPLLQPGLAALRRRAREAGVPLAPLPLTDSFLLRFLRARDFDLDLAWRL
KNYYKWRAECPEISADLHPRSIIGLLKAGYHGLRSRDPTGSKVLIYRIAHWDPKVFTAYDVFRVSLITS
ELIVQEVETQRNGIKAIFDLEGWQFSAFQITPSVAKKIAAVLTDSFPLKVRGIHLINPVIHFHAFVSMI
KPFLTEKIKERIMHGNNGYKQSLQHFDPDILPLEYGGEEFSMEDICQEWTFIMKSEDYLLSSISESIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

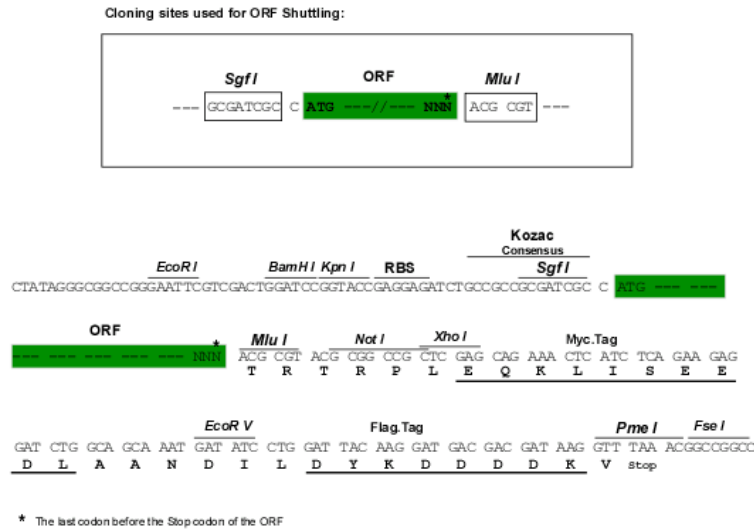
Chromatograms:

https://cdn.origene.com/chromatograms/ja1506_e03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_000370

ORF Size:

834 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:

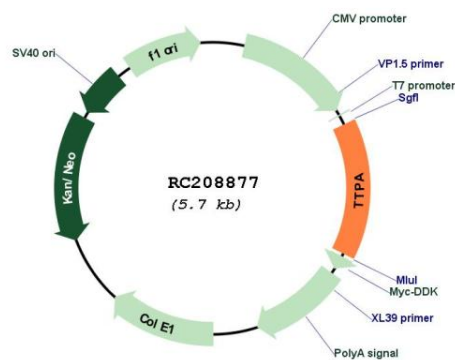
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

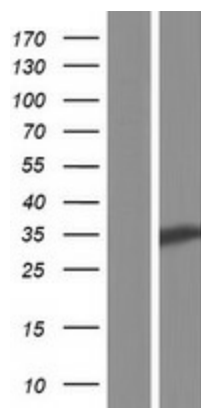
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_000370.3, NP_000361.1</u>
RefSeq Size:	1249 bp
RefSeq ORF:	837 bp
Locus ID:	7274
UniProt ID:	<u>P49638</u>
Cytogenetics:	8q12.3
Protein Families:	Druggable Genome
MW:	31.6 kDa
Gene Summary:	This gene encodes a soluble protein that binds alpha-tocopherol, a form of vitamin E, with high selectivity and affinity. This protein plays an important role in regulating vitamin E levels in the body by transporting vitamin E between membrane vesicles and facilitating the secretion of vitamin E from hepatocytes to circulating lipoproteins. Mutations in this gene cause hereditary vitamin E deficiency (ataxia with vitamin E deficiency, AVED) and retinitis pigmentosa. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RC208877



Western blot validation of overexpression lysate (Cat# [LY424763]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208877 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).