

## Product datasheet for **RG208877**

### **TTPA (NM\_000370) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | TTPA (NM_000370) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | TTPA                                                                        |
| Synonyms:                 | alphaTTP; ATTP; AVED; TTP1                                                  |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG208877 representing NM_000370<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGCAGAGGCGCGATCCCAGCCCTCGGCGGGCCGCGAGCTCAACGCGCTACCGGACCACTCTCCGTTGC  
TGCAGCCGGGCTGGCGGCGCTGCGGCGCCGGCCCGGAAGCTGGCGTCCGCTCGCGCCGCTGCCGCT  
CACCGACTCCTTCCTGCTGCGGTTCTGCGCGCCCGGATTCGATCTGGACCTGGCCTGGCGTTACTA  
AAAACTATTATAAGTGGAGAGCAGAATGTCCAGAAATAAGTGCAGATCTACCCCTAGAAGTATTATTG  
GCCTCCTAAAGGCTGGCTACCATGGAGTCTGAGATCCAGGGATCCCACTGGCAGCAAAGTTCTTATTTA  
CAGAATCGCACACTGGGACCCCAAAGTCTTTACAGCTTATGACGTATTTGAGTAAGTCTAATCACATCC  
GAGCTTATTGTACAGGAGGTAGAACTCAGCGGAATGGAATCAAGGCTATCTTTGATCTGGAAGGTTGGC  
AGTTTTCTCATGCTTTTCAAATCACTCCATCCGTAGCCAAGAAGATTGCTGCTGTAATTACGGATTCAAT  
TCCATTGAAAGTTCGTGGCATCCATTTGATAAATGAACCAGTAATTTCCATGCTGTCTTTCCATGATC  
AAACCATTCTGACTGAAAAATTAAGGAACGGATTCACATGCATGGGAACAACATAAAACAAAGCTTGC  
TTCAGCATTTCCAGACATTCTTCCTCTGGAATATGGTGGTGAAGAATTCTCCATGGAGGACATTTGTCA  
GGAATGGACAAATTTTATAATGAAGTCTGAAGATTATCTCAGCAGCATTTCTGAGAGCATTCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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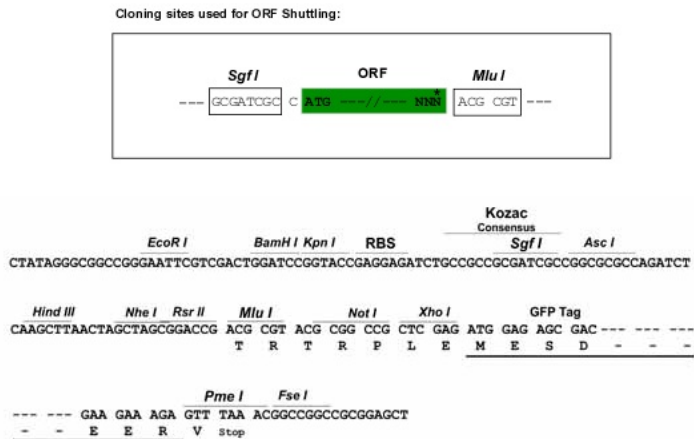
**Protein Sequence:** >RG208877 representing NM\_000370  
 Red=Cloning site Green=Tags(s)

MAEARSQPSAGPQLNALPDHSPLLQPGLAALRRRAREAGVPLAPLPLTDSFLLRFLRARDFDLDLAWRL  
 KNYKWRACPEISADLHPRSIIGLLKAGYHGVLSRDPTGSKVLIYRIAHWDPKVFTAYDVFRVSLITS  
 ELIVQEVETQRNGIKAFDLEGWQFSHAFQITPSVAKKIAAVLTDSFPLKVRGIHLINPVIHFVFSMI  
 KPFLTEKIKERIHMHGNNYKQSLQHPDILPLEYGGEFSDMICQEWTFIMKSEDYLSISISIQ

TRTRPLE – GFP Tag – V

**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.

**RefSeq:** [NM\\_000370.2](#), [NP\\_000361.1](#)

**RefSeq Size:** 1249 bp

**RefSeq ORF:** 837 bp

**Locus ID:** 7274

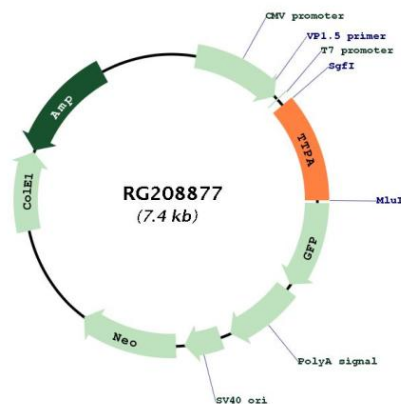
**UniProt ID:** [P49638](#)

**Cytogenetics:** 8q12.3

**Protein Families:** Druggable Genome

**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 RG208877