

## Product datasheet for **RG213142**

### Tubulin Polymerization Promoting Protein (TPPP) (NM\_007030) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tubulin Polymerization Promoting Protein (TPPP) (NM_007030) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubulin Polymerization Promoting Protein
Synonyms:	p24; p25; p25alpha; TPPP/p25; TPPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213142 representing NM_007030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGACAAGGCCAAGCCTGCCAAAGCTGCCAACAGGACGCCCCCAAGTCCCCGGGGGACCCCTCGA  
AGGACCGGGCAGCCAAGAGGCTGTCGCTGGAATCGGAGGGTGTGGTGAGGGGGCAGCCGCATCCCTGA  
GCTCAGTGCCCTGGAGGAGGCCCTCCGGCGCTTGGCCGTGCACGGGGACCCAGGGCCACCGGGAGGGAG  
ATGCACGGCAAGAAGTGGTGAAGCTGTGCAAGGACTGCCAGGTGATCGACGGCAGGAACGTGACCGTCA  
CTGACGTGGACATCGTCTTCAGCAAGATCAAAGGGAAGTCTTGCCGGACCATCACCTTTGAGCAGTTCCA  
GGAGGCGCTGGAGGAGCTCGCCAAGAAGCGATTCAAAGACAAGAGCAGCGAGGAGGCCGTTCCGCGAGGTG  
CACAGGCTCATCGAGGGCAAGGCCCCATCATCTCAGGGGTGACGAAAGCCATCTCGTCGCCACAGTGT  
CGAGGCTCACGGACACCACCAAGTTCACGGGCTCCCAAGGAGCGCTTCGACCCCTCTGGCAAGGGCAA  
GGGCAAGGCTGGCCGCTGGATCTGGTGGACGAGTCAGGCTATGTGTCCGGCTACAAGCACGCAGGCACC  
TACGACCAGAAGGTGCAAGGGGCAAG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213142 representing NM\_007030  
 Red=Cloning site Green=Tags(s)

MADKAKPAKAANRTPPKSPGDPSKDRAAKRLSLESEGAGEGAAASPELSALEEAFRRFAVHGDARATGRE  
 MHGKNWSKLCQDCQVIDGRNVTVDVDIVFSKIKGKSCRITITFEQFQEALEELAKKRFKDKSSEEAVREV  
 HRLIEGKAPIISGVTKAIISSPTVSRLLDTTKFTGSHKERFDPSTGKGGKAGRVDLVDESGYVSGYKHAGT  
 YDQKVQGGK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007030

**ORF Size:** 657 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\\_007030.3](#)

**RefSeq Size:** 5019 bp

**RefSeq ORF:** 660 bp

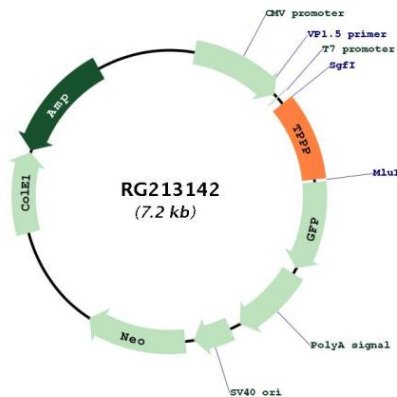
**Locus ID:** 11076

**UniProt ID:** [O94811](#)

**Cytogenetics:** 5p15.33

**Gene Summary:** May play a role in the polymerization of tubulin into microtubules, microtubule bundling and the stabilization of existing microtubules, thus maintaining the integrity of the microtubule network. May play a role in mitotic spindle assembly and nuclear envelope breakdown. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG213142