

## Product datasheet for **RG206008**

### TPRKB (NM\_016058) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TPRKB (NM\_016058) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TPRKB  
**Synonyms:** CGI-121; CGI121; GAMOS5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206008 representing NM\_016058  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGTTAACACATCAGCTGGACCTATTTCCGAATGCAGGGTAACCCTTCTGTTATTTAAAGATGTAA  
 AAAATGCGGGAGACTTGAGAAGAAAGGCCATGGAAGGCACCATCGATGGATCACTGATAAATCCTACAGT  
 GATTGTTGATCCATTTTCAGATACTTGTGGCAGCAAACAAGCAGTTCACCTCTACAACTGGGAAAAATG  
 AAGACAAGAACTCTACTACTGAAATTATTTCAACCTTTCCCAATAACAATATTTAGAGGCTTTGA  
 AAAAATTTGGTATCTCAGCAAATGACACTTCAATTCTAATTGTTTACATTGAAGAGGGAGAAAAACAAT  
 AAATCAAGAATACCTAATATCTCAAGTAGAAGGTCATCAGGTTTCTGAAAAATCTTCCTGAAATAATG  
 AATATTACAGAAGTCAAAAAGATATATAAACTCTCTTCAAGAAGAAAGTATTGGGACATTATTGGATG  
 CTATCATTGTAGAATGTCAACAAAAGATGTTTTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206008 representing NM\_016058  
 Red=Cloning site Green=Tags(s)

MLTHQLDLFPECRVTLFFFKDVKNAGDLRRKAMEGTIDGSLINPTVIVDPFQILVAANKAVHLYKLGKM  
 KRTLSTEIIFNLSPNNIASEALKKFGISANDTSLIVYIEEGEKQINQEYLSIQVEGHQVSLKNLPEIM  
 NITEVKKIYKLSQEESIGTLDDAIICRMSTKDVL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_016058

**ORF Size:** 525 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\\_016058.5](#)

**RefSeq Size:** 703 bp

**RefSeq ORF:** 528 bp

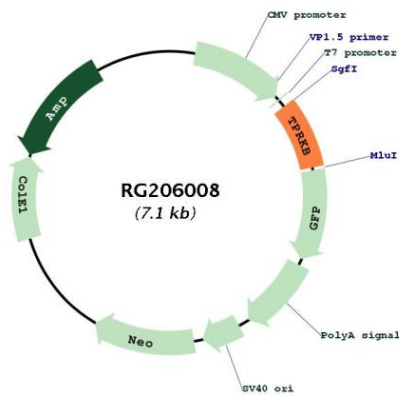
**Locus ID:** 51002

**UniProt ID:** [Q9Y3C4](#)

**Cytogenetics:** 2p13.1

**Gene Summary:** Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine (PubMed:22912744, PubMed:28805828). The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 (PubMed:22912744, PubMed:28805828). TPRKB acts as an allosteric effector that regulates the t(6)A activity of the complex. TPRKB is not required for tRNA modification (PubMed:22912744, PubMed:28805828).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206008