

# **Product datasheet for MG201201**

## Tprkb (BC027413) Mouse Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Tprkb (BC027413) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Tprkb

Synonyms: Cgi-121, mDRWMS1, DRWMS1

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG201201 representing BC027413

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGGCTCTCGGAAGTCAAGAAGGTTTGTCCTGCACATTTTGAAGAGTTCAGTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201201 representing BC027413

Red=Cloning site Green=Tags(s)

MQLSQQLDLFPECRVTLLLFKDVKNAGDLRKKAMEGSIDGSLINPNVIVDPFQILVAANKAVHLHRLGKM KTRTLSTGIIFNLSPNNNISEALKKFGISETNTSVLIVYIEDGSKQVPQEHLVSQVEGQQVPLESLPEIT

 ${\sf RLSEVKKVCPAHFEEFSR}$ 

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



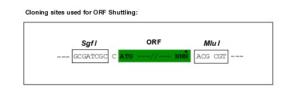
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

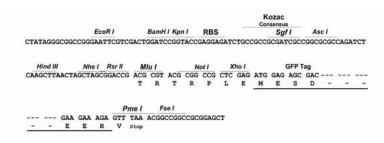
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

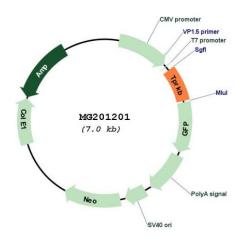


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** BC027413 **ORF Size:** 474 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.

### Tprkb (BC027413) Mouse Tagged ORF Clone - MG201201

**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:** <u>BC027413.1</u>

RefSeq Size: 1210 bp
RefSeq ORF: 476 bp
Locus ID: 69786
Cytogenetics: 6 C3

**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. The complex is probably involved in the transfer of the

threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. TPRKB acts as an allosteric effector that regulates the t(6)A activity of the complex. TPRKB is

not required for tRNA modification.[UniProtKB/Swiss-Prot Function]