

## Product datasheet for MR201525

### Tprkb (NM\_176842) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tprkb (NM\_176842) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tprkb  
**Synonyms:** 0610033G21Rik; 1810034M08Rik; Cgi-121; DRWMS1; mDRWMS1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201525 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGCTATCACAGCAGCTGGACTTGTTTCCTGAATGCAGGGTGACCCTTCTGTTATTTAAAGATGTAA  
 AAAATGCAGGAGACTTGAGAAAAAGGCCATGGAAGGATCTATTGATGGTTCATTGATAAACCCCAATGT  
 GATTGTCGATCCATTTAGATACTTGTGGCAGCAAACAAGCCGTTTCATCTCCACAGACTGGGAAAAATG  
 AAGACAAGAACTGTCTACTGAAATTATCTTCAACCTCTCCCAATAATAATATTTAGAGGCCCTTGA  
 AGAAATTTGGCATTTCAGAACTAACACTTCAGTTCTGATTGTTTACATTGAAGATGGAAGCAAACAAGT  
 ACCACAGGAACACCTAGTATCTCAAGTGAAGGCCAGCAGGTGCCTTTGGAAAGTCTCCAGAAATAACA  
 AGGCTCTCGGAAGTCAAGAAGATATATAAACTGTATCACAAGAAGAGAGGATTGGGACGTTATTGGATG  
 CTATCATTGTAGAATGTCAACGAAGGATGTTTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201525 protein sequence  
 Red=Cloning site Green=Tags(s)

MQLSQQLDLFPECRVTLFFFKDVKNAGDLRKKAMEGSIDGSLINPNVIVDPFQILVAANKAVHLHRLGKM  
 KTRTLSTEIIFNLSNNIASEALKKFGISETNTSVLIVYIEDGSKVQPQEHLSVQVEGQQVPLESLPEIT  
 RLSEVKKIYKLSQEERIGTLLDAIICRMSTKDVL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



ACCN: NM\_176842

ORF Size: 528 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\\_176842.3](#)

RefSeq Size: 2133 bp

RefSeq ORF: 528 bp

Locus ID: 69786

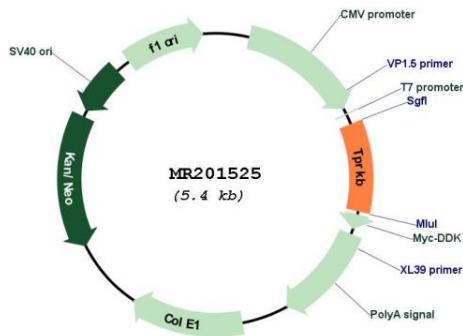
UniProt ID: [Q8QZZ7](#)

Cytogenetics: 6 C3

MW: 19.6 kDa

**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]

### Product images:



Circular map for MR201525