

Product datasheet for **MG216459**

Tprkb (NM_001170488) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tprkb (NM_001170488) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tprkb
Synonyms: 0610033G21Rik; 1810034M08Rik; Cgi-121; DRWMS1; mDRWMS1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216459 representing NM_001170488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCTATCACAGCAGCTGGACTTGTTCCTGAATGCAGGGTGACCCTTCTGTTATTTAAAGATGTAA
 AAAATGCAGGAGACTTGAGAAAAAGGCCATGGAAGGATCTATTGATGGTTCATTGATAAACCCCAATGT
 GATTGTCGATCCATTTAGATACTTGTGGCAGCAAACAAGCCGTTTCATCTCCACAGACTGGGAAAAATG
 AAGACAAGAACTCTGTCTACTGAAATTATCTTCAACCTCTCCCAATAATAATATTTAGAGGCCCTTGA
 AGAAATTTGGCATTTCAGAACTAACACTTCAGTTCTGATTGTTTACATTGAAGATGGAAGCAAACAAGT
 ACCACAGGAACACCTAGTATCTCAAGTGAAGGCCAGCAGGTGCCTTTGGAAAGTCTCCAGAAATAACA
 AGGCTCTCGGAAGTCAAGAAGATATATAAACTGTATCACAAGAAGAGAGGATTGGGACGTTATTGGATG
 CTATCATTTGTAGAATGTCAACGAAGGATGTTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216459 representing NM_001170488
 Red=Cloning site Green=Tags(s)

MQLSQQLDLFPECRVTLFFFKDVKNAGDLRKKAMEGSIDGSLINPNVIVDPFQILVAANKAVHLHRLGKM
 KRTLSTEIIFNLSPNNIASEALKKFGISETNTSVLIVYIEDGSKQVPQEHLSVQVEGQQVPLESLPEIT
 RLSEVKKIYKLLSQEERIGTLDDAIICRMSTKDVL

TRTRPLE - GFP Tag - V

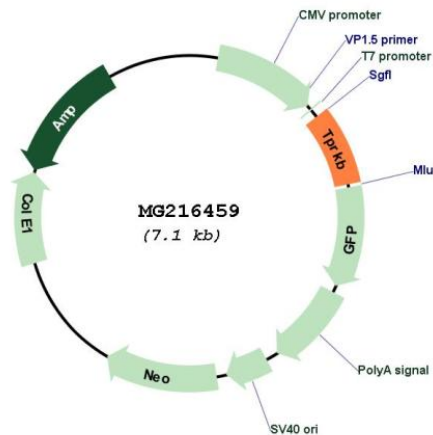
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001170488

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:	<ol style="list-style-type: none">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>NM_001170488.1, NP_001163959.1</u>
RefSeq Size:	2241 bp
RefSeq ORF:	528 bp
Locus ID:	69786
UniProt ID:	<u>Q8QZZ7</u>
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]