

# Product datasheet for MR201518

# Tprkb (BC027162) Mouse Tagged ORF Clone

# **Product data:**

#### OriGene Technologies, Inc.

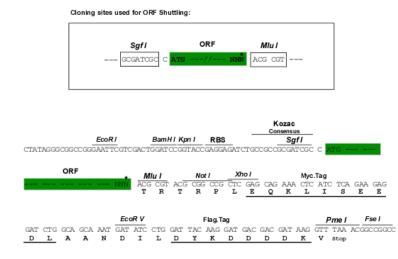
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Product Type:	Expression Plasmids
Product Name:	Tprkb (BC027162) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tprkb
Synonyms:	Cgi-121, mDRWMS1, DRWMS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201518 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCAGCTATCACAGCAGCTGGACTTGTTTCCTGAATGCAGGGTGACCCTTCTGTTATTTAAAGATGTAA AAAATGCAGGAGACTTGAGAAAAAAGGCCATGGAAGGATCTATTGATGGTTCATTGATAAACCCCAATGT GATTGTCGATCCATTTCAGATACTTGTGGGCAGCAAACAAA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>MR201518 protein sequence Red=Cloning site Green=Tags(s)
	MQLSQQLDLFPECRVTLLLFKDVKNAGDLRKKAMEGSIDGSLINPNVIVDPFQILVAANKAVHLHRLGKM KTRTLSTEIIFNLSPNNNISEALKKFGISETNTSVLIVYIEDGSKQVPQEHLVSQVEGQQVPLESLPEIT RLSEVKKIYKLSSQEERIGTLLDAIICRMSTKDVL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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## **Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

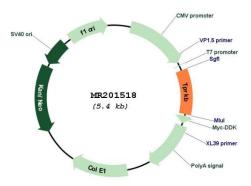
ACCN:	BC027162
ORF Size:	525 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>BC027162</u> , <u>AAH27162</u>
RefSeq Size:	980 bp
RefSeq ORF:	527 bp
Locus ID:	69786
Cytogenetics:	6 C3
MW:	19.6 kDa

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## **CRIGENE** Tprkb (BC027162) Mouse Tagged ORF Clone – MR201518

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

# **Product images:**



Circular map for MR201518

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