

Product datasheet for RC206008

TPRKB (NM_016058) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

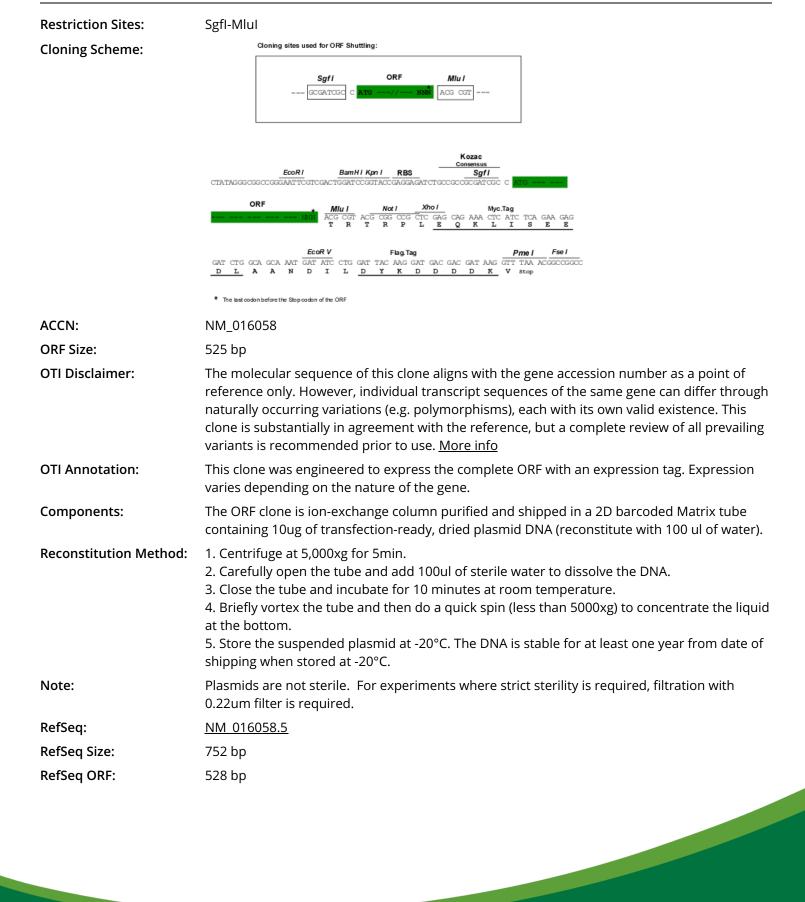
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	TPRKB (NM_016058) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TPRKB
Synonyms:	CGI-121; CGI121; GAMOS5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC206008 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCAGTTAACACATCAGCTGGACCTATTTCCCGAATGCAGGGTAACCCTTCTGTTATTTAAAGATGTAA AAAATGCGGGAGACTTGAGAAGAAAGGCCATGGAAGGCACCATCGATGGATCACTGATAAATCCTACAGT GATTGTTGATCCATTTCAGATACTTGTGGGCAGCAAACAAA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC206008 protein sequence <mark>Red=</mark> Cloning site Green=Tags(s)
	MQLTHQLDLFPECRVTLLLFKDVKNAGDLRRKAMEGTIDGSLINPTVIVDPFQILVAANKAVHLYKLGKM KTRTLSTEIIFNLSPNNNISEALKKFGISANDTSILIVYIEEGEKQINQEYLISQVEGHQVSLKNLPEIM NITEVKKIYKLSSQEESIGTLLDAIICRMSTKDVL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6320_f02.zip



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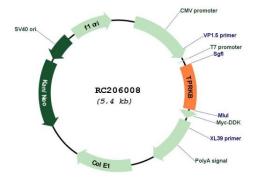
Sourigene TPRKB (NM_016058) Human Tagged ORF Clone – RC206008



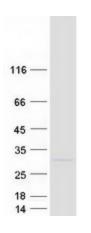
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	TPRKB (NM_016058) Human Tagged ORF Clone – RC206008
Locus ID:	51002
UniProt ID:	<u>Q9Y3C4</u>
Cytogenetics:	2p13.1
MW:	19.7 kDa
Gene Summary:	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine (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 RC206008



Coomassie blue staining of purified TPRKB protein (Cat# [TP306008]). The protein was produced from HEK293T cells transfected with TPRKB cDNA clone (Cat# RC206008) using MegaTran 2.0 (Cat# [TT210002]).

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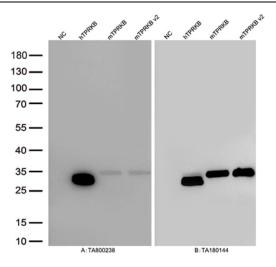


Figure A, Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human TPRKB plasmid (RC206008, hTPRKB), mouse TPRKB plasmid ([MR201518], mTPRKB), mouse TPRKB v2 plasmid ([MR201525], mTPRKB v2) using anti-TPRKB antibody [TA800238] (1:5000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:5000)

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