

## Product datasheet for **SC127102**

### TPRKB (NM\_016058) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TPRKB (NM_016058) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPRKB
Synonyms:	CGI-121; CGI121; GAMOS5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016058, the custom clone sequence may differ by one or more nucleotides

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ATGCAGTTAACACATCAGCTGGACCTATTTCCCGAATGCAGGGTAACCCTTCTGTTATTTAAAGATGTAA
AAAATGCGGGAGACTTGAGAAGAAAGCCATGGAAGGCACCATCGATGGATCACTGATAAATCCTACAGT
GATTGTTGATCCATTTAGATACTTGTGGCAGCAAACAAGCAGTTCACCTCTACAACTGGGAAAAATG
AAGACAAGAACTCTACTACTGAAATTATTTTCAACCTTTCCCAATAACAATATTTTCAGAGGCTTTGA
AAAAATTTGGTATCTCAGCAAATGACACTTCAATTCTAATTGTTTACATTGAAGAGGGAGAAAAACAAAT
AAATCAAGAATACCTAATATCTCAAGTAGAAGGTCATCAGGTTTCTCTGAAAAATCTTCTGAAATAATG
AATATTACAGAAGTCAAAAAGATATATAAATCTCTTCAAGAAGAAAGTATTGGACATTATTGGATG
CTATCATTGTAGAAATGTCAACAAAAGATGTTTTATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_016058 unedited NGACGTTCAAATTTTGTAAACGACTCACTATAGGGCGGCCGCGATTCCGGCAGAGCGGA TGTAGAATCCTGCTTATCTGTGAAATGCAGTTAACACATCAGCTGGACCTATTTCCCGAA TGCAGGGTAACCCCTTCTGTTATTTAAAGAGTAAAAATGCGGGGAGACTTGAGAAGAAAGG CCATGGAAGGCACCATCGATGGATCACTGATAAATCCTACAGTGATTGTTGATCCATTTT AGATACTTGTGGCAGCAAACAAGCAGTTCACCTCTACAAACTGGGAAAAATGAAGACAA GAACCTATCTACTGAAATTTTTCAACCTTTCCCAAATAACAATATTTTCAGAGGCTT TGAAAAAATTTGGTATCTCAGCAAATGACACTTCAATTCTAATTGTTTACATTGAAGAGG GAGAAAAACAATAAATCAAGAATACCTAATATCTCAAGTAGAAGGTCATCANNGTTCTCT NGAAAACTTTCCCTGAATATGAATATTACAGAAGTAAAAAGATATTTAACTCTCTTC ACANGAAGAAAGTATTGGGACATTATTGGATGCTATCATTTGTAGAATGGTCACAAAAGA TGTTTTATGAAATGTCAGAAATTTACAAAAATTCTCAGCTTTAAGAAAACCTTTGATTTTA AAAAAAAAAAAAAAAAAAACTTCACTTTAATTGCGGCCCGGCCCTAACTGTTTCCTGG ACAATCCCGGTGGGATCCCTGGAACCCCTCCAAGGCTTTTCCGGCCCTGGAAATTGCC CTTCCAGGGCCAACAGCCCTGGCCACAAAAAATAATTGGCACTTTGGGGAAAAAGGGGC CCTTAAATGGGGGGGGGGGGGGTTTATAAACACCNCCAATTTAAAAAACACC CCGA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016058
<b>Insert Size:</b>	600 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_016058.1</a></u> , <u><a href="#">NP_057142.1</a></u>
<b>RefSeq Size:</b>	703 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	51002
<b>UniProt ID:</b>	<u><a href="#">Q9Y3C4</a></u>
<b>Cytogenetics:</b>	2p13.1

**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]