

## Product datasheet for **RN207356**

### Tk1 (NM\_052800) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tk1 (NM_052800) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tk1
Synonyms:	Tk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN207356 representing NM_052800 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTACATCAACCTGCCACCGTGCTGCCATCTCCCCAGCAAGACCCGGGGCAGATCCAGGTGA  
TTCTCGGGCCCATGTTCTCAGGGAAAAGCACGGAGCTGATGAGGAGAGTAAGGCGCTTCCAGATCGCCCA  
GTACAAGTGCCTGGTCATCAAGTATGCCAAAGACACGCGCTATAGCAACAGCTTCTCCACACATGACCGG  
AACACCATGGATGCACTGCCGGCCTGCATGCTCAAGGATGTGGCCAGGAGGCCTTGGGTGTGGCTGCA  
TTGGCATCGATGAAGGGCAGTTTTCCCTGACATTGTGGATTTCTGTGAAACGATGGCCAATACAGGCAA  
GACAGTGATTGTGGCGCGCTGGACGGAACCTTCCAGAGGAAGGCTTTCGGCAGCATCTTGAACCTGGTG  
CCCTTGGCCGAGAGTGTGGTGAAGCTCACCGCTGTGTGCATGGAGTGCTTTCGAGAAGCTTCTACACCA  
AGAGGCTGGGCTGGAGAAAGAGGTGGAGGTGATTGGCGGAGCGGACAAGTACCACTCTGTTTGCCGCT  
GTGCTACTTTAAGAAGTCTTCAGCCAGACTGCAGACAACAAAGAGAAGTACTCAGTGCTGGGGCAGCCT  
ATAGAGATCCCGGCTGTCAGGAAGCTCTTGCCCTCAGCAAATCCTACAGTGAACTCTGCCAACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_052800
Insert Size:	699 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_052800.1](#), [NP\\_434687.1](#)

**RefSeq Size:** 2263 bp

**RefSeq ORF:** 699 bp

**Locus ID:** 24834

**UniProt ID:** [P27158](#)

**Cytogenetics:** 10q32.2

**Gene Summary:** catalyzes the transfer of the terminal phosphate of ATP to thymidine to form thymidine 5'-phosphate (dTMP) [RGD, Feb 2006]