

Product datasheet for **RR207356**

Tk1 (NM_052800) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tk1 (NM_052800) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tk1
Synonyms: Tk
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR207356 representing NM_052800
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTACATCAACCTGCCACCGTGCTGCCATCTCCCCAGCAAGACCCGGGGCAGATCCAGGTGA
TTCTCGGGCCCATGTTCTCAGGGAAAAGCACGGAGCTGATGAGGAGAGTAAGGCGCTTCCAGATCGCCCA
GTACAAGTGCTGGTCATCAAGTATGCCAAGACACGGCTATAGCAACAGCTTCTCCACACATGACCGG
AACACCATGGATGCACTGCCGGCTGCATGCTCAAGGATGTGGCCAGGAGGCCTGGGTGTGGCTGTCA
TTGGCATCGATGAAGGGCAGTTTTTCCCTGACATTGTGGATTTCTGTGAAACGATGGCCAATACAGGCAA
GACAGTGATTGTGGCGGCTGGACGGAACCTTCCAGAGGAAGGCTTTCGGCAGCATCTTGAACCTGGTG
CCCTTGGCCGAGAGTGTGGTGAAGCTCACCGCTGTGTGCATGGAGTGCTTTCGAGAAGCTTCTACACCA
AGAGGCTGGCCCTGGAGAAAGAGGTGGAGGTGATTGGCGGAGCGGACAAGTACCACTCTGTTTGGCCCT
GTGCTACTTTAAGAAGCTTTCAGCCGACTGCAGACAACAAAGAGAAGTACTCAGTGCTGGGGCAGCCT
ATAGAGATCCCGGCTGTCAGGAAGCTCTTTGCCCTCAGCAAATCCTACAGTGTAAGTCTGCCAAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207356 representing NM_052800
 Red=Cloning site Green=Tags(s)

MSYINLPTVLPISPSKTRGQIQVILGPMFSGKSTELMRRVRRFQIAQYKCLVIKYAKDTRYSNSFSTHDR
 NTMDALPACMLKDVAQEALGVAVIGIDEGQFFPDI VDFCETMANTGKTVIVAALDGTFRKAFGSILNLV
 PLAESVVKLTAVCMECFREASYTKRLGLEKEVEVIGGADKYHSVCRLCYFKKSSAQATADNKENYSVLGQP
 IEIPAVRKLFPAPQILQCNSAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2357_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_052800

ORF Size: 696 bp

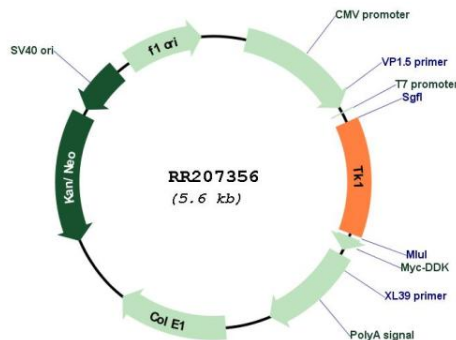
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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](#)

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_052800.1</u> , <u>NP_434687.1</u>
RefSeq Size:	2263 bp
RefSeq ORF:	699 bp
Locus ID:	24834
UniProt ID:	<u>P27158</u>
Cytogenetics:	10q32.2
MW:	26.2 kDa
Gene Summary:	catalyzes the transfer of the terminal phosphate of ATP to thymidine to form thymidine 5'-phosphate (dTMP) [RGD, Feb 2006]

Product images:



Circular map for RR207356