

Product datasheet for **VC101074**

thymidine kinase (NC_009334) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	thymidine kinase (NC_009334) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	thymidine kinase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>The Viral ORF clone VC101074 represents NCBI reference of YP_001129497 with codon optimized for human cell expression
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGATTTCCGGGAAAAGAAGCTGGCCCCCGGGCGGCTGGAGAAAGTCCAGGAAGACGAATCTC
 CCGAAAACGAGCGGCATGAAAACCTTCTATGCTGAGATAGATGATTTTCGCACCATCAGTTCTGACCCCAAC
 AGGGAGCGACTCTGGCGCTGGCGAAGAGGACGACGATGGCCTCTACCAAGTCCCTACACACTGGCCGCCG
 CTTATGGCTCCCCTGGCCTGAGTGGAGAACGGGTCCTTGTAGAAGTACGGCCGCCGTAACGTCCAACA
 CTGGAACTCTCCGGTTCAGGCATACCTCTTGCCTTACCCTTCCGCGAGGAGCTCAACCCCTGC
 ACCGGCTCATCAGAAGCCAACAGCACCAACCCCTAAACCCAGGTCTCGGGAATGCGGGCCAAGCAAGACA
 CCAGACCCATTCTCATGGTTCGCAAAACCTCATGCACAGAAGGGGGGCGAGACAGCACCAGTCGCTCAT
 TTATGTACCAGAAAGGCTTTGAAGAGGGTTTGGCCGGACTGGGGCTCGACGATAAAAGCGATTGTGAATC
 CGAGGACGAGAGTAACCTTAGGAGACCAAGTAGCCACTCCGCTCTGAAGCAGAAGAACGGGGGTAAGGGA
 AAACCTTCTGGACTGTTGAGCACCTGGCGGCACACGGCCGAGAGTTTAGCAAATTTGCAAAACACGCCG
 CCCAACTTAAGCGGCTTAGCGGATCTGTTATGAACGTTCTAACCTGGATGATGCCCAAGATACCAGACA
 GGCTAAAGCTCAGCGAAAGGAGACACCAGGTGCCCATTTGTGACACACCTGACAAACCAGTCCCGGTG
 ATCAAACCCGCTGCTCCCTTTTCTGGAGGGGCTCCTGGAGTTGGTAAGACCACCATGCTCAATCACC
 TTAAGCCGTGTTCCGAGACCTTACCATCGTCGTCAGAGCCTATGCGCTATTGGACTCATGTGTATGA
 AAATGCCATAAAAGCAATGCATAAGAATGTTACCCGGGCAAGGCACGGGAGAGAGGATACTCCGCTGAG
 GTCTCGCCTGCAGATGAAGTTTACCACCCATTAGAGTCTGGCTAGTCGAAAAGATCACTGCTGG
 TCACAGAGTCAGGTGCACGCAGCGTGGCCCTCTGGACTGCTGGATCCTCCACGACCGACACCTCCTCTC
 AGCCTCTGCTGTTTCTCTTATGCTGCTGAGAAGTCAGTTGCTTCTCTATAGTGATTTTATCCAGGTA
 CTCGCCACATTCACAGCGGATCCGGCGATACCATTGTCTGGTGAAGTTGAATGTGAAGAGAATATGA
 GGCGGCTGAAGAAGCGGGCAGGAAGCATGAGAGCGGTTTGGATGCCGGCTACCTGAAATCAGTGAACGA
 TGCCTATCAGCAGTGTATTGTGCTTGGCTCCTTACCCAGTACTTTCGCGCTGAGGACATCGTTAAGGTG
 TGTGCTGGGCTTACAACCATTACAACCGTGTGCCATCAATCCCATACCCGATCATCCGCTCAGGGGTTG
 CCGAGAAGCTCTACAAGAATTCTATTTTCAAGTGTGCTTAAAGGAAGTGATACAGCCATTACGGGCAGATG
 AGTTCTTTTGAAGTTTGCCTCGCTTTTACCAGGACCCTGGCTTATCTGCAGTTTGTACTGTTGACCTC
 TCCGAGTTTTCAGGACGATCTCCCTGGGTGCTGGACTGAAATATATATGCAGGCCCTCAAGAAATCCTGCCA
 TTAGATCTCAATTCCTCGACTGGGCTGGACTCTCAAGGTTATTAGTGATTTTCGAGAGAGGTAATCGGGA
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC101074 representing YP_001129497
 Red=Cloning sites Green=Tags

MAGFPGKEAGPPGGWRKQDESPENERHENFYAEIDDFAPSVLTPTGSDSGAGEEDDDGLYQVPHWPP
 LMAPTGLSGERVP CRTQAAVTSNTGNPSGRHSTCPFTLPRGAQPPAPAHQKPTAPT PKPRSRECGPSKT
 PDPF SWFRKTSCTEGGADSTSRFSMYQKGFEEGLAGLGLDDKSDCESEDES NFRRPSSHSALKQKNGGKG
 KPSGLFEHLAAHGREFSKLSKHAALKRLSGSVMNVLNLDDAQDTRQAKAQRKESTRVPIVTHL TNHVPV
 IKPACSLFLEGAPGVGKTTMLNHLKAVFGDLTIVPEPMRYWTHVYENAIKAMHKNVTRARHGREDTSAE
 VLACQMKF TTPFRV LASRKRSLLVTESGARSVAPLDCWILHDRHLLSASVVFPLMLLRSQLLSYSDFIQV
 LATFTADPGDTIVWMKLNVEENMRRLKGRKHE SGLDAGYLKSVNDAYHAVYCAWLLTQYFAPEDIVKV
 CAGLTTITTVCHQSHTPIIRSGVAEKLKNSIFSVLKEVIQPFRAVAVLLEVCLAFTRTLAYLQFVLDL
 SEFQDDLPGCWTEIYMQALKNPAIRSQFFDWAGLSKVISDFERGNRD

TRTRRLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_009334

ORF Size: 1821 bp

OTI Disclaimer: The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

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: [NC_009334.1, YP_001129497](#)

RefSeq ORF: 1821 bp

Locus ID: 5176155

MW: 67.2 kDa