

## Product datasheet for **RC233066**

### **TNK1 (NM\_001251902) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TNK1 (NM_001251902) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNK1
Synonyms:	KOS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC233066 representing NM\_001251902  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTCCTGAGGCTGGCTCCCTGTGGCTACTGAAGTGTCCGGGACATCCAGTTGGCCAGTTTTACT  
 GGCCCATCCTTGAGGAGCTTAATGTCACTCGGCCAGAGCACTTCGACTTTGTAAAGCCTGAGGACCTGGA  
 CGGCATTGGCATGGGCCGGCTGCCAGCGCAGACTGTCCGAAGCTCTGAAAAGGCTACGTTCTGGCCCT  
 AAGTCTAAGAACTGGGTCTACAAGATCCTTGGAGGTTTTGCCCTGAGCACAAGGAGCCACCCTGCCCT  
 CGGACAGCCACGGCACCTCCCTGAGCCAGAGGGGGCCCAAGTGTCTGATCCAGAGGGTGTGTTTTG  
 CAGAGGGGAGCTGCTGGGTTCAAGCTGCTTCGGTGTGGTGCACCGAGGGCTGTGGACGCTGCCAGTGGC  
 AAGAGTGTCCAGTGGCTGTCAAGTCCCTCCGGTAGGTCCGAAGGCCCGATGGGCACAGAAGTGGGG  
 ACTTCTGCGAGAGGTATCGGTCATGATGAAGTGGAGCACCCACACGTGCTGCGTCTGCACGGCCTTGT  
 ACTGGGCCAGCCTCTGCAGATGGTATGGAGCTGGCGCCACTGGGCTCCCTGCACGCGCCCTAACGGCC  
 CCGGCCCCGACACCCCCGCTGCTCGTGGCCCTGCTCTGCCTCTTCTGCGGCAGCTGGCGGGAGCCATGG  
 CGTACCTGGGGGCCCGGGCTGGTGCACCGAGACCTCGTACGCGCAACCTACTGCTGGCGTCCGCCGCG  
 CACCATCAAGGTGGCTGACTTCGGGCTGGTGGCCCTCTGGGCGGTGCCCGGGCCGCTACGTCATGGGC  
 GGGCCCCGCCCTATCCCTACGCTGGTGTGCCCCAGAGAGCCTGCGCCACGGAGCCTTCTCGTCTGCCCT  
 CGGACGTGTGGATGTTTGGGGTGACGCTGTGGGAGATGTTCTCCGGGGGCGAGGAACCTGGGCCGGGGT  
 CCCACCGTACCTCATCCTGCAGCGGTGGAGGACAGAGCCCGGCTGCCTAGGCCTCCCCTGCTCCAGG  
 GCCCTCTACTCCCTCGCCTTGCCTGCTGGGCCCCACCCTGCCGACCGGCCTAGCTTTTCCCACCTGG  
 AGGGGCTGCTGCAAGAGCCGGGCTTCGGAAGCATGTTGTGTGAGGGATGTACAGAACCAGGCGCCCT  
 GAGGATGGAGACTGGTGACCCCATCACAGTCATCGAGGGCAGCTCCTCTTCCACAGCCCCGACTCCACA  
 ATCTGGAAGGGCCAGAATGGTTCGCACCTTCAAAGTGGGCAGCTTCCCAGCCTCGGCAGTGACGCTGGCAG  
 ATGCGGGGGCTTCCAGCCACCCGTCCAGTCCACAGAGGACCCCTGCCCGGGGAGATCAACACCCAGG  
 AAGCATAGATGGAGACAGAAAGAAGGCAAATCTTTGGGATGCGCCCCAGCACGGGGCCAGAGGAGGAAC  
 ATGCCCTGGAGAGGATGAAAGGCATTTCCAGGAGTCTGGAGTCAGTTCTGTCCCTCGGTCCTCGTCCCA  
 CAGGGGGTGGTTCAAGCCCCCTGAAATTCGACAAGCCAGAGCTGTGCCCCAGGGACCTCCAGGCCTGCC  
 TCCAGGCCACCTTTATCCTCTAGCTCTCCTCAGCCCAGCCAGCCCTCTAGGGAGAGGCTTCCCTGGCCC  
 AAAAGAAAACCCACACAATCACCCATGGGAATGCCTGGAGCCGTAAGCCGCTGCCCTCTCTGGAG  
 GCCTCTTGTCCGATCCTGAGTTGCAGAGGAAGATTATGGAGGTGGAGCTGAGTGTGCATGGGGTACCCCA  
 CCAGGAGTGCCAGACAGCACTAGGAGCCACTGGGGGAGATGTGGTTTTCTGCCATCCGGAACCTCAAGGTA  
 GATCAGCTCTTCCACCTGAGTAGCCGGTCCAGAGCTGACTGCTGGCGCATCCTGGAGCATTACCAGTGGG  
 ACCTCTCAGCTGCCAGCCGCTATGTCCTGGCCAGGCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233066 representing NM\_001251902  
 Red=Cloning site Green=Tags(s)

MLPEAGSLWLLKLLRDIQLAQFYWPILEELNVTRPEHFDFVKPEDLDGIGMGRPAQRRLSEALKRLRSGP  
 KSKNWVYKILGGFAPEHKEPTLPSPRHLPEPEGGLKCLIPGAVCRGELLGSGCFGVVHRLWTLPSG  
 KSVPVAVKSLRVGPEGPMGTELGDFLREVSVMNLEHPHVLRHLGLVLGQPLQVMELAPLGS LHARLTA  
 PAPTPLLVALLCLFLRQLAGAMAYLGARGLVHRDLATRNLLASPRTIKVADFGLVRLGGARGRYVMG  
 GPRPIPYAWCAPESLRHGAFSSASDVWMFGVTLWEMFSGGEEPWAGVPPYLILQRLEDRLRPPPLCSR  
 ALYSLALRCWAPHPADRPFSHLEGLLQEAGPSEACCVRDVTEPGALRMETGDPITVIEGSSSFHSPDST  
 IWKQNGRTFKVGSFPASAVTLADAGGLPATRPVHRGTPARGDQHPGSDGDRKKANLWDAPPARGQRN  
 MPLERMKGISRSLESVLSLGPRTGGSSPPEIRQARAVPQPPGLPPRPPLSSSSPQSPQSRERLPWP  
 KRKPPHNHPMGMPGARKAAALSGLLSDPELQRKIMEVELSVHGVTHQECQTALGATGGDVVSAIRNLKV  
 DQLFHLSSRSRADCWRILEHYQWDLAASRYVLARP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

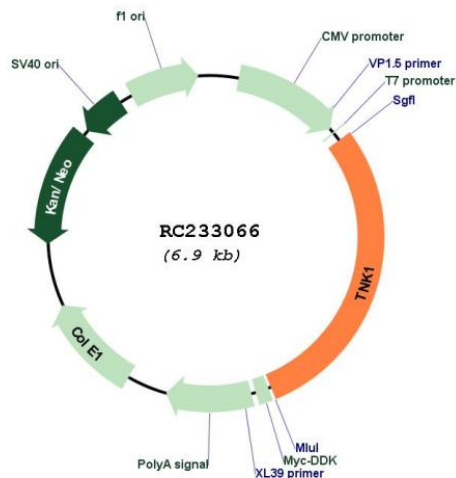
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001251902

ORF Size: 1998 bp

**OTI Disclaimer:** 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:**

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\\_001251902.2](#)

RefSeq Size: 2927 bp

RefSeq ORF: 2001 bp

Locus ID: 8711

UniProt ID: [Q13470](#)

Cytogenetics: 17p13.1

Protein Families: Druggable Genome, Protein Kinase

MW: 72.9 kDa

**Gene Summary:** The protein encoded by this gene belongs to the tyrosine protein kinase family. Tyrosine protein kinases are important regulators of intracellular signal transduction pathways, mediating cellular proliferation, survival, and development. This gene is highly expressed in fetal tissues and at lower levels in few adult tissues, thus may function in signaling pathways utilized broadly during fetal development, and more selectively in adult tissues. It plays a negative regulatory role in the Ras-Raf1-MAPK pathway, and knockout mice have been shown to develop spontaneous tumors, suggesting a role as a tumor suppressor gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]