

## Product datasheet for **RG223073**

### **TNK1 (NM\_003985) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TNK1 (NM_003985) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TNK1
Synonyms:	KOS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG223073 representing NM\_003985  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTTCCTGAGGCTGGCTCTCTGTGGCTACTGAAGTGTCCGGGACATCCAGTTGGCCAGTTTACT  
GGCCCATCCTTGAGGAGCTTAATGTCACTCGGCCAGAGCACTTCGACTTTGTAAAGCCTGAGGACCTGGA  
CGGCATTGGCATGGGCCGGCTGCCAGCGCAGACTGTCCGAAGCTCTGAAAAGGCTACGTTCTGGCCCT  
AAGTCTAAGAACTGGGTCTACAAGATCCTTGGAGGTTTTGCCCTGAGCACAAGGAGCCACCCTGCCCT  
CGGACAGCCCACGGCACCTCCCTGAGCCAGAGGGGGCCCAAGTGTCTGATCCCAGAGGGTGTGTTT  
CAGAGGGGAGCTGCTGGGTTCAAGCTGCTTCGGTGTGGTGCACCGAGGGCTGTGGACGCTGCCAGTGGC  
AAGAGTGTCCAGTGGCTGTCAAGTCCCTCCGGTAGGTCCGAAGGCCGATGGGCACAGAAGTGGGG  
ACTTCTGCGAGAGGTATCGGTCATGATGAAGTGGAGCACCCACACGTCTGCGTCTGCACGGCCTTGT  
ACTGGCCAGCCTCTGCAGATGGTATGGAGCTGGCGCCACTGGGCTCCCTGCACGCGCCCTAACGGCC  
CCGGCCCCGACACCCCGCTGCTCGTGGCCCTGCTCTGCCTCTTCTGCGGCAGCTGGCGGGAGCCATGG  
CGTACCTGGGGGCCCGGGCTGGTGCACCGAGACCTCGTACGCGCAACCTACTGCTGGCGTCCGCCGCG  
CACCATCAAGGTGGCTGACTTCGGGCTGGTGGCCCTCTGGGCGGTGCCCGGGCCGCTACGTCATGGGC  
GGGCCCCGCCCTATCCCTACGCTGGTGTGCCCCAGAGAGCCTGCGCCACGGAGCCTTCTCGTCTGCC  
CGGACGTGTGGATGTTTGGGGTACGCTGTGGGAGATGTTCTCCGGGGGCGAGGAACCTGGGCCGGGT  
CCCACCGTACCTCATCTGCAGCGGTGGAGGACAGAGCCCGCTGCCTAGGCCTCCCCTGCTCCAGG  
GCCCTCTACTCCCTCGCCTTGCCTGCTGGGCCCCCACCCTGCCGACCGCCTAGCTTTTCCCACCTGG  
AGGGGCTGCTGCAAGAGCCGGCCCTTCGGAAGCATGTTGTGTGAGGGATGTACAGAACCAGGCGCCCT  
GAGGATGGAGACTGGTGACCCCATCACAGTCATCGAGGGCAGCCCCGACTCCACAATCTGGAAGGGCCAG  
AATGGTGCACCTTCAAAGTGGGAGCTTCCAGCCTCGGCAGTACGCTGGCAGATGCGGGGGCTTGC  
CAGCCACCCGTCAGTCCACAGAGGCACCCTGCCCGGGAGATCAACACCCAGGAAGCATAGATGGAGA  
CAGAAAGAAGGCAAATCTTTGGGATGCGCCCCAGCACGGGGCCAGAGGAGGAACATGCCCTGGAGAGG  
ATGAAAGGCATTTCCAGGAGTCTGGAGTCAAGTCTGTCCCTCGGTCCTCGTCCCACAGGGGGTGGTTCAA  
GCCCCCTGAAATTCGACAAGCCAGAGCTGTGCCCCAGGACCTCCAGGCCTGCCTCCACGCCACCTTT  
ATCCTTAGCTCTCCTCAGCCCAGCCAGCCTCTAGGGAGAGGCTTCCCTGGCCAAAAGAAAACCCCA  
CACAATACCCCATGGGAATGCCTGGAGCCGTAAGCCGCTGCCCTCTCTGGAGGCCTCTGTCCGATC  
CTGAGTTCAGAGGAAGATTATGGAGATGGAGCTGAGTGTGCATGGGGTACCCACCAGGAGTGCCAGAC  
AGCACTAGGAGCCACTGGGGGAGATGTGGTTTCTGCCATCCGGAACCTCAAGGTAGATCAGCTCTCCAC  
CTGAGTAGCCGGTCCAGAGCTGACTGCTGGCGCATCCTGGAGCATTACCAGTGGGACCTCTCAGTGC  
GCCGCTATGTCCTGGCCAGGCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG223073 representing NM\_003985  
Red=Cloning site Green=Tags(s)

```

MLPEAGSLWLLKLLRDIQLAQFYWPILEELNVTRPEHFDFVKPEDLDGIGMGRPAQRRLSEALKRLRSGP
KSKNWVYKILGGFAPEHKEPTLPSPRHLPEPEGGLKCLIPGAVCRGELLGSGCFGVVHRLWTLPSG
KSVPVAVKSLRVGPEGPMGTELGDFLREVSVMNLEHPHVLRHLGLVLGQPLQVMELAPLGS LHARLTA
PAPTPLLVALLCLFLRQLAGAMAYLGARGLVHRDLATRNLLASPRTIKVADFGLVRPLGGARGRYVMG
GPRPIPWAYCAPESLRHGAFSSASDVWMFGVTLWEMFSGGEEPWAGVPPYLILQRLEDRLRPRPLCSR
ALYSLALRCWAPHADRPFSHLEGLLQEAGPSEACCVRDVTEPGALRMETGDPITVIEGSPDSTIWKGQ
NGRTFKVGSFPASAVTLADAGGLPATRPVHRGTPARGDQHPGSDGDRKKANLWDAPPARGQRNMPLER
MKGISRSLESVLSLGPRTGGGSSPPEIRQARAVPQPPGLPPRPPLSSSSPQPSQPSRERLPWPKRKP
HNHPMGMPGARKAAALSGLLSDPELQRKIMEMELSVHGVTHQECQTALGATGGDVVSAIRNLKVDQLFH
LSSRSRADCWRILEHYQWDLAASRYVLARP
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003985

**ORF Size:** 1983 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\\_003985.1](#), [NP\\_003976.1](#)

**RefSeq Size:** 2771 bp

**RefSeq ORF:** 1986 bp

**Locus ID:** 8711

**UniProt ID:** [Q13470](#)

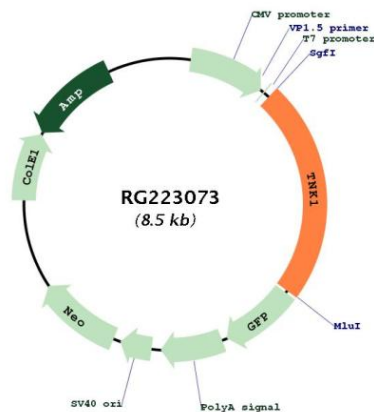
**Cytogenetics:** 17p13.1

**Domains:** pkinase, TyrKc, SH3, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**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]

## Product images:



Circular map for RG223073