

Product datasheet for **SC117643**

TNK1 (NM_003985) Human Untagged Clone

Product data:

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|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | TNK1 (NM_003985) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TNK1 |
| Synonyms: | KOS1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene sequence for NM_003985 edited
AGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTT
GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTTGACCAGGTGGAGCT
GGAGACCTGGTCTCTCTAGGGCTACCCCTGAGCTACCATCTGAAGGAGAGTGCCATCAT
CCTTAGAACTCCTTCTCCAGACATGCTTCTGAGGCTGGCTCTCTGTGGCTACTGAAGC
TGCTCCGGGACATCCAGTTGGCCAGTTTTACTGGCCCATCCTTGAGGAGCTTAATGTCA
CTCGGCCAGAGCACTTCGACTTTGTAAAGCCTGAGGACCTGGACGGCATTGGCATGGGCC
GGCCTGCCAGCGCAGACTGTCCGAAGCTCTGAAAAGGCTACGTTCTGGGCCTAAGTCTA
AGAACTGGGTCTACAAGATCCTTGAGGTTTTGCCCCTGAGCACAAAGAGCCACCTGC
CCTCGACAGCCACGGCACCTCCCTGAGCCAGAGGGGGCTCAAGTGTCTGATCCAG
AGGGTGTGTTTTGCAGAGGGGAGCTGCTGGGTTCAAGGCTGCTTCGGTGTGGTGCACCGAG
GGCTGTGGACGCTGCCAGTGGCAAGAGTGTCCAGTGGCTGTCAAGTCCCTCCGGGTAG
GTCCCGAAGGCCGATGGGCACAGAAGTGGGGACTTCTGCGAGAGGTATCGGTATGA
TGAAGTTGGAGCACCCACAGTGTGCTGCGTGTGCACGGCTTGTACTGGGCCAGCCTCTGC
AGATGGTGTGGAGCTGGCGCCACTGGGCTCCCTGCACGCGCGCTAACGGCCCCGGCC
CGACACCCCGCTGCTCTGGCCCTGCTCTGCCTTCTCTGCGGAGCTGGCGGGAGCCA
TGGCGTACCTGGGGGCCCGGGCTGGTGCACCGAGACCTCGCTACGCGCAACCTACTGC
TGGCGTCGCCCGCACCATCAAGGTGGTGAATTCGGGCTGGTGCAGCCCTCTGGGCGGTG
CCCGGGGCGCTACGTATGGGCGGGCCCCGCCCTATCCCTACGCTGGTGTGCCCCAG
AGAGCCTGCGCCACGGAGCCTTCTCGTCTGCCTCGGACGTGTGGATGTTTGGGGTACGC
TGTGGGAGATGTTCTCCGGGGCGAGGAACCTGGGCGGGGTCCCACCGTACCTCATCC
TGCACCGGCTGGAGACAGAGCCCGCTGCCTAGGCCTCCCTCTGCTCCAGGGCCCTCT
ACTCCCTCGCCTTGCCTGCTGGGCCCCCACCCTGCCAGCCGCTAGCTTTTCCACC
TGGAGGGGCTGCTGCAAGAGGCCGGCCTTCGGAAGCATGTTGTGTGAGGGATGTCACAG
AACCAGGCGCCCTGAGGATGGAGACTGGTGACCCCATCACAGTATCGAGGGCAGCCCCG
ACTCCACAATCTGGAAGGGCCAGAATGGTGCACCTTCAAAGTGGGCAGCTTCCCAGCCT
CGGCAGTGACGCTGGCAGATGCGGGGGCTTGCCAGCCACCCGTCAGTCCACAGAGGCA
CCCCTGCCCGGGAGATCAACACCCAGGAAGCATAGATGGAGACAGAAAGAAGGCAATC
TTTGGGATGCGCCCCAGCACGGGGCCAGAGGAGGAACATGCCCTGGAGAGGATGAAAG
GCATTTCCAGGAGTCTGGAGTCACTTCTGTCCCTCGGTCTCGTCCACAGGGGGTGGTT
CAAGCCCCCTGAAATTCGACAAGCCAGAGCTGTGCCCCAGGACCTCCAGGCCTGCCTC
CAGCCCCACCTTTATCCTTAGCTCTCCTCAGCCAGCCAGCCCTTAGGGAGAGGCTTC
CCTGGCCCAAAGAAAACCCCCACACAATCACCCATGGGAATGCCTGGAGCCCGTAAAG
CCGCTGCCTCTCTGGAGGCCTTGTCCGATCCTGAGTTGCAGAGGAAGATTATGGAGA
TGGAGCTGAGTGTGATGGGGTACCCACCAGGAGTGCCAGACAGCACTAGGAGCCACTG
GGGAGATGTGGTTTTCTGCCATCCGGAACCTCAAGGTAGATCAGCTTCCACCTGAGTA
GCCGTCAGAGCTGACTGCTGGCGCATCCTGGAGCATTACCAGTGGGACCTCTCAGCTG
CCAGCCGCTATGCTCTGGCCAGGCCCTGAGCTCAGCTTCTGCGGGCACAGACACCAGCAT
GAAAAGCCTAGGCCCTGAGGGCTGGCCACATGGGACCAAGCGGAACCAAGAAAGGTC
CCGACAGGGGTAGACGTTCCACCTGGGGAGATCCACCTGCCGTAGGCACATGGAGGAGG
AGCCAGAGTTGGGCACTGGCAAATGTCTCCTCCCTCCCATGCTCCTTGGCTTCTGAAGG
CTGAAGCTCCTTTGGCTGGGCCAAGAAGGATCTAGTCTGCCACTACATTCTCAAACAAG
AGGACTTGGAGGAAAAGAGCTGTATACATCATATGCAGAGGAAGCTTCTACGCGCTAGA
GAGGATCAAGGGGCCACTGGACCATGTGAACAGCCATCCTGAACTGCCATCAGCTACC
ACACTGGACTCTGCAGGGCAGCCATCCTGGATGATGGAAGCCACCATATTGACTTGGGGT
ATAGGCCAAAACGCCTTCGTTTGGTCCAGGGCCATCGTGGGTGATGACGATTGCTCTCT
TGCACTCAAGGACATTTGATGCTGGTAGTATGGATTATGAGATGGACTAGCCCTGCCCC
AGCCAGCTCTCACATTCCTTTGTTTTTCCATACCAACTGCTTCTACCCTCCCTA
TTACATACATCTTCAATGTCAAAAAAAAAAAAAAAAAAATCGACTCTAGATTGGCGCC
CGGTACATAGCTGTTTCTGAACAGATCCCGGTGGCATCCTGTGACCCCTCCCCAGTG
    
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_003985 unedited GTTCANNTATTTGTAATACGACTCACTATTAGGGCGGCCGCAATTCGCACGAGGCTTGA CCGGTGGAGCTGGAGACCTGGTCTCTCTAGGGCTACCTGAGCTACCATCTGAAGGAG AGTGCCATCATCCTTAGGAACTCCTTCTCCAGACATGCTTCTGAGGCTGGCTCTCTGTG GCTACTGAAGCTGCTCCGGGACATCCAGTTGGCCAGTTTTACTGGCCATCCTTGAGGA GCTTAATGTCACTCGGCCAGAGCACTTCGACTTTGTAAAGCCTGAGGACCTGGACGGCAT TGGCATGGGCCGGCCTGCCAGCGCAGACTGTCCGAAGCTCTGAAAAGGCTACGTTCTGG GCCTAAGTCTAAGAACTGGGTCTACAAGATCCTTGGAGGTTTTGCCCTGAGCACAAGGA GCCACCTCGCCCTCGGACAGCCACGGCACCTCCCTGAGCCAGAGGGGGCCTCAAGTG TCTGATCCAGAGGGTGTGTTTGCAGAGGGGAGCTGCTGGGTTCAAGGCTGCTTCGGTGT GGTGCACCGAGGGCTGTGGACGCTGCCAGTGGCAAGAGTGTCCAGTGGCTGTCAAGTC CCTCCGGGTAGGTCCCGAAGGCCCGATGGGCACAGAACTGGGGGACTTCTGCGAGAGGT ATCGGTATGATGAAGTGGAGCACCCACAGTGTGCGTCTGCACGGCCTTGTACTGGG CCAGCCTCTGCAGATGGTATGGAGCTGGCGCCACTGGCTCCCTGCACGCGCCCTAAC GGCCCCGCCCGAACCCCGCTGCTCGTGGCCCTGCTCTGCCTCTCCCTGCGCAGCTGG CGGGAGCCATGGCGTACCCTGGGGCCCGGGGCTGGTGCACCGAGACTCGCTACGCGCAA CTACTGGTGGCGTCGCCGCGACCATCAGGTGGCTGACT</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_003985 unedited GGGGGGGGGGGAANNNNNNNNNTTTNNNNNNNTTNNNTTCTGTGNNACCGCGGCCCC CATTTTANGATCGAGTTTTTTTTTTTTTTTTTTTGGACATTGAAAGAGTATGTAATAGGGGA GGGTAGAAGCAGTTGGTATGGGAAAAACAAGGGGAATGTGAGAGCTGGGCTGGGGCAG GGCTAGTCCATCTCATAATCCATACTACCAGCATCAAATGTCCTTGAGTGAAGAGAGC AATCGTCATCACCCACGATGGCCCTGGACCAAACGAAGGCAGTTTGGGCCTATACCCCAA GTCAATATGGTGGCTTCCATCATCCAGGATGGCTGCCCTGCAGAGTCCAGTGTGGTAGCT GATGGCAGTTCAGGATGGCTGTTACATGGTCCAGTGTGGCCCTTGATCCTCTCTAGCG CGTAGAAGCTTCTCTGCATATGATGTATAGCAGCTCTTTTCTCCAAGTCTCTTGT GAGAATGTAGTGGGCAGACTAGATCCTTCTTGGCCAGCCAAAGGAGCTTCAGCCTTCAG AAGCCAAGGAGCATGGGAGGGAGGAGACATTTGCCAGTGCCCAACTCTGGGCTCCTCCTC CATGTGCCTACGGCAGGTGGGATCTCCCAGGTGGAACGTCTACCCTGTCCGNACCTTG TTCTGGTTCGCTTGGTCCCATGTGGGCCAGCCCTCAGGNGCCTANGCTTTTCATGCTGG TGCTGTGCCCGAAAAGCTGAGCTCAGGGCCTGGCCAGACATANCGGCTGGCAGCTGA GAGGTCCACTGGGTATGCTCCAGGATGCCCGCAGCAGTCACTCTGGACCGCTACTCANGT GGAAGAGCTGATCTACCTTGAGGTNCGGATGGCAGAACCACATCTCCCCAGTGCTCCTAA GCTGNCTGCACTCCTGGTGGNTGACCCATGCCACTCAGNNTCATCTCCTATACTCCTCTG CACTCAGAAGN</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_003985 |
| Insert Size: | 2850 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: 2001 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]

Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site at an internal coding exon compared to variant 1. This results in a shorter isoform (2) missing a 5 aa protein segment compared to isoform 1.