

Product datasheet for **SC323530**

TNK1 (NM_003985) Human Untagged Clone

Product data:

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323530 sequence for NM_003985 edited (data generated by NextGen Sequencing)

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ATGCTTCTGAGGCTGGCTCTCTGTGGCTACTGAAGCTGCTCCGGGACATCCAGTTGGCC
CAGTTTTACTGGCCATCCTTGAGGAGCTTAATGTCACTCGGCCAGAGCACTTCGACTTT
GTAAAGCCTGAGGACCTGGACGGCATTGGCATGGGCCGGCCTGCCAGCGCAGACTGTCC
GAAGCTCTGAAAAGGCTACGTTCTGGGCCTAAGTCTAAGAAGTGGGTCTACAAGATCCTT
GGAGTTTTGGCCCTGAGCACAAGGAGCCACCCTGCCCTCGGACAGCCACGGCACCTC
CCTGAGCCAGAGGGGGCCTCAAGTGTCTGATCCAGAGGGTGTGTTTTGCAGAGGGGAG
CTGCTGGTTTCAGGCTGCTTCGGTGTGGTGCACCGAGGGCTGTGGACGCTGCCCCAGTGGC
AAGAGTGTCCCAGTGGCTGTATGTCCCTCCGGGTAGGTCCGAAGGCCCGATGGGCACA
GAACTGGGGGACTTCTGCGAGAGGTATCGGTCATGATGAACTTGGAGCACCCACACGTG
CTGCGTCTGCACGGCCTTGTACTGGCCAGCCTCTGCAGATGGTGTGGAGCTGGCGCCA
CTGGGCTCCCTGCACGCGCGCCTAACGGCCCCGGCCCCGACACCCCGCTGCTCGTGGCC
CTGCTCTGCCTCTTCTGCGGCAGCTGGCGGGAGCCATGGCGTACCTGGGGGCCCGGGG
CTGGTGCACCGAGACCTCGCTACGCGAACCTACTGCTGGCGTGCACCGCACCATCAAG
GTGGCTGACTTCGGGCTGGTGCAGCCTCTGGGCGGTGCCCGGGGCGCTACGTATGGGC
GGGCCCCGCCCTATCCCCTACGCCTGGTGTGCCCCAGAGAGCCTGCGCCACGGAGCCTTC
TCGTCTGCCTCGGACGTGTGGATGTTTGGGGTGCAGCTGTGGGAGATGTTCTCCGGGGG
GAGGAACCCTGGGCCGGGGTCCCACCGTACCTCATCTGCAGCGGCTGGAGGACAGAGCC
CGGCTGCCTAGGCCTCCCTCTGCTCCAGGGCCCTTACTCCCTCGCCTTGCCTGCTGG
GCCCCCACCTGCCGACCGGCCTAGCTTTTCCACCTGGAGGGGCTGCTGCAAGAGGCC
GGGCCTTCGGAAGCATGTTGTGTGAGGGATGTACAGAACCAGGCGCCCTGAGGATGGAG
ACTGGTGACCCCATCACAGTCATCGAGGGCAGCCCCGACTCCACAATCTGGAAGGGCCAG
AATGGTTCGCACCTTCAAAGTGGGCAGCTTCCAGCCTCGGCAGTGACGCTGGCAGATGCG
GGGGGCTTGCCAGCCACCCGTCCAGTCCACAGAGGCACCCTGCCCGGGGAGATCAACAC
CCAGGAAGCATAGATGGAGACAGAAAGAAGGCAAATCTTTGGGATGCGCCCCCAGCACGG
GGCCAGAGGAGGAACATGCCCTGGAGAGGATGAAAGGCATTTCCAGGAGTCTGGAGTCA
GTTCTGTCCCTCGGTCTCGTCCCACAGGGGGTGGTTCAAGCCCCCTGAAATTCGACAA
GCCAGAGCTGTGCCCCAGGGACCTCCAGGCCTGCCTCCACGCCACCTTTATCCTCTAGC
TCTCCTCAGCCCAGCCAGCCCTTAGGGAGAGGCTTCCCTGGCCCCAAAAGAAAACCCCA
CACAATCACCCCATGGGAATGCCTGGAGCCCGTAAAGCCGCTGCCCTCTCTGGAGGCCTC
TTGTCCGATCCTGAGTTGCAGAGGAAGATTATGGAGATGGAGCTGAGTGTGCATGGGGTC
ACCCACCAGGAGTGCCAGACAGCACTAGGAGCCACTGGGGGAGATGTGGTTTTCTGCCATC
CGGAACCTCAAGGTAGATCAGCTCTTCCACCTGAGTAGCCGGTCCAGAGCTGACTGCTGG
CGCATCTGGAGCATTACCAGTGGGACCTCTCAGCTGCCAGCCGCTATGCTCTGGCCAGG
CCCTGA
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Clone variation with respect to NM_003985.3
21 c=>t;443 a=>t;1777 g=>a

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_003985 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTTGACCAGGTGGA GCTGGAGACCTGGTCTCTCTAGGGCCTACCCTGAGCTCACCATCTGAAGGAGAGTGCCATCATCCTTAGG AACTCCTTCTCCAGACATGCTTCTGAGGCTGGCTCTCTGTGGCTACTGAAGCTGCTCCGGGACATCCAG TTGGCCCAGTTTTACTGGCCCATCCTTGAGGAGCTTAATGTCACCTCGGCCAGAGCACTTCGACTTTGTAA AGCCTGAGGACCTGGACGGCATTGGCATGGGCCGGCCTGCCAGCGCAGACTGTCCGAAGCTCTGAAAAG GCTACGTTCTGGCCTAAGTCTAAGAAGTGGGTCTACAAGATCCTTGAGGTTTTGCCCTGAGCACAAG AGCCACCTGCCTCGGACAGCCACGGCACCTCCCTGAGCCAGAGGGGCCTCAAGTGTCTGATCCCA GAGGGTGTGTTGCAGAGGGAGCTGCTGGGTTTCAGCTGCTTCGTGTGTGCACCGAGGGCTGTGACGCTG CCCAGTGCAGAGTGTCCAGTGGCTGTCATGTCCCTCCGGGTAGTCCCAGCCCGATGGCAACAGACTGGG GGACTTCTGCGGAAGGTTTCGTCATGATGAAGTGGAGCCACCCACACTGCTGCGTCTGCACGCTTTT ACTGGCCAGCCTTTGCCAATGGTATGGACTGGCGCCATGGCTCCCTGCCGCGCTACGCCCGCCGAA CCCCGGTGTCTTGCCTGCTTTTCTGCGACTGGGGAACCATGGCTACCTGGACAAGCCTGTACGAC CTTGACCGCACCATGTGTGTTGCCGGCGCACATAAGGTGGCGTAATCTTCG
Kinase Domain Sequence:	>SC323530 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GMGKCTGGATMTGCTGCTTCGGTGTGGTGCACCGAGGGCTGTGGACGCTGCCAGTGGCAAGAGTGTCCC AGTGGCTGTCATGTCCTCCGGTAGGTCCGAAGGCCCGATGGGCACAGAACTGGGGACTTCCTGCCA GAGGTATCGGTATGATGAAGTGGAGCACCCACAGTGTGCGTCTGCACGGCCTTGTACTGGCCAGC CTCTGCAGATGGTATGGAGCTGGCGCCACTGGGCTCCCTGCACG
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	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:	<p>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.</p> <p>[provided by RefSeq, Oct 2011]</p> <p>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.</p>