

Product datasheet for **SC108453**

TLK1 (NM_012290) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLK1 (NM_012290) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLK1
Synonyms:	PKU-beta
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 ORF sequence for NM_012290 edited
ATGAGTGTCCAAAGTAGCAGTGGAAAGTTTGGAGGGGCCGCATCTTGGTCCCAGCTCTCC
ACGTCTCCAACCCCGGGCTCGGCGGGCGGCCAGGTCCCTGCTGAATCACACGCCGCCA
TCCGGGAGGCCAGGGAAGGTGCAATGGATGAGCTTCATAGTCTGGATCCAAGAAGGCAA
GAGTTATTGGAAGCTAGATTTACTGGAGTTGCAAGTGGGAGCACTGGAAGTACGGGCAGT
TGCAGTGTGGAGCTAAAGCCTCAACAAATAACGAAAGCTCTAATCACAGTTTTGGAAGC
TTGGGATCTTTAAGTGACAAAGAATCAGAGACACCGGAGAAGAAACAATCGGAATCATCC
AGGGGAAGAAAGAGAAAAGCAGAAAACAGAAATGAAAGTAGTCAGGGAAAAGTATTGGG
GGACGTGGCCACAAAATTAGCGACTATTTTGAATACCAGGGTGGAAATGGCTCAAGTCCA
GTAAGAGGCATACCTCCTGCAATCCGTTCTCCTCAAAATTCACATTCACATTCCACTCCT
TCCTCATCTGTTGACCGAATAGCCCTTCTCCTACTGCATTAGCATTGGGGACCACCCT
ATTGTACAACCAAGCAATTATCCTTTAAAATTATTCAGACTGATCTCACAATGCTGAAA
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GATTTGCTCAGGGCTAACTGTGATCTCAGACGGCAAAATAGATGAACAACAAAAATTA
GAAAAATACAAAGAACGATTAATAAAGTGCATATCAATGAGCAAGAACTTCTTATTGAA
AAGAGTACACAAGAAAAGCTGTCAAGCAGAGAGAAGAGTATGCAAGATCGATTACGCCTC
GGGCACCTTACAACAGTTAGACATGGCGCTTCATTTACTGAACAATGGACAGATGGTTTT
GCATTTGAGAATCTTGTGAAGCAACAAGAATGGGTGAATCAGCAAAGGGAAGATATTGAA
AGGCAAAGGAACTTCTAGCCAAACGCAAACTCCACAGCTAATAATTCTCAGGCACCC
TCTACCAATTCTGAACCAAAAACAAAGGAAAAACAAAGCAGTCAATGGAGCAGAGAATGAT
CCCTTTGTTAGACCAAAATTTACCACAACGTGGACTTTGGCAGAATATCATGAACAGGAA
GAAATTTCAAACCTTAGACTAGGACATCTCAAAAAGGAAGAGGCAGAAAATCCAGGCAGAA
CTTGAACGTTTGGAAAGAGTCAGAAATCTCACATACGTGAGCTGAAAAGAATAAACAAT
GAAGATAATTCACAGTTCAAAGATCACCCAACATTAATGAAAGATATTTATTACTTCAT
CTGCTTGGTAGAGGTGGCTTTAGTGAAGTGTATAAGGCTTTTGACCTTTATGAACAAAGA
TATGCTGCTGTGAAGATACATCAGCTTAATAAAAAGCTGGAGAGATGAGAAGAAAGAAAAC
TACCACAAACATGCCTGCAGAGAGTATAGAATACACAAAGAACTGGATCACCCAGAATA
GTTAAACTCTATGATTATTTCTCCTTGGATACAGATACGTTTTGTACAGTGTTAGAATAC
TGTGAAGGCAATGACTTGGATTTCTATCTGAAGCAACACAAGTTAATGTCAGAGAAAGAA
GCTCGGTCTATTGTAATGCAGATTGTAATGCACTAAGATATCTCAATGAGATCAAACCC
CCTATTATACATTATGATCTTAAGCCAGGAAACATCCTACTGGTAGATGGAACAGCATGT
GGTGAATCAAAATCACTGATTTTGGTCTGTCCAAGATTATGGATGATGATAGCTATGGT
GTAGATGGAATGGATCTAACTTCCAGGGGCAGGCACTTACTGGTATTTACCTCCTGAG
TGTTTTGTAGTTGAAAAGAGCCACCAAGATTTCCAACAAGGTTGATGTATGGTCGGTT
GGAGTCATCTTCTTTCAGTGTCTTTATGGTAGAAAAGCCATTTGGTCACAATCAATCTCAA
CAAGACATTCTTCAAGAAAATACAATATTAAGGACACAGAAAGTCCAGTTCCTGTAAAA
CCGTTTGAAGCAGTGAAGCCAAGGCATTTATAAGACGCTGTTTGGCATATCGAAAAGAA
GATCGATTTGATGTGCACCAGTGGCAAATGACCCATACCTTCTCCACACATGAGAAGA
TCAAATTTCTCAGGAAACCTACACATGGCTGGGCTGACAGCATCCCCTACACCCCTTCT
TCAAGCATAATTACTTACTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012290 unedited</p> <pre> CCCCGTTACAGATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCATCCC CTTGACTCTCCCCCTCCAGCCCTCGCTCTCTCGCTCGCCCTCAGCGCGGCCCCCGCCATG ACGGAGGCGGGTGCCGGTGCCGTTGCCGCCGCTGCCGTCGCAGGGGGGGAGTCGGGTTCC CAGAAAGTAGCTTGATGAGTGTCCAAAGTAGCAGTGGAAGTTTGGAGGGGCCCCATCTT GGTCCCAGCTCTCCACGCTCCAACCCCGGGCTCGGCGGCGGCCAGGTCCTGCTGA ATCACACGCCGCCATCCGGGAGGCCAGGAAGTGCAATGGATGAGCTTCATAGTCTGG ATCCAAGAAGGCAAGAGTTATTGGAAGCTAGATTTACTGGAGTTGCAAGTGGGAGCACTG GAAGTACGGGCAGTTGCAGTGTTGGAGCTAAAGCCTCAACAAATAACGAAAGCTCTAATC ACCTTTTTGGAAGCTTGGGATCTTTAAGTGACAAAGAATCAGAGACACCGGAGAAGAAAC AATCGGAATCATCCAGGGGAAGAAAGAGAAAAGCAGAAAACCAGAATGAAAGTAGTCAGG GAAAAAGTATTGGGGACGTGGCCACAAAATTAGCGACTATTTTGAATACCAGNGTGAA ATGGCTCAAGTCCAGTAAGAGGCATACCTCCTGCAATCCGTTCTCCTCAAAATTCACATT CACATTCACCTCCTTCTCATCTGTTTCGACCGAATAGCCCTTCTNCTACTGCATTAGCAT TTGGGGACCACCCTATTGTACAACCTAAAGCATTATCCTTTAAAGTATTCAGACTGATCT CACCATGCTGAATTAGCAGCATTAAAAGTAATACATCCTAGACTGNCAAAAAAGAGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012290 unedited</p> <pre> ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTACATTTTAACTGTCATT GTTTATTACTGTTTTGGCTATACTCTACAATTCAGCAGCATTTTAAAGAGACAATGT GTCTATGTACAATGAAAAACAAAATGGCTTGCAACATCAGAAATACAGTTTAACTGTAC AATATTAAGAGAATCCGTGGTACGTATAACCTTTTTCTGCAACATGAACAACTTACATG TAAGTATCAGCATTATGAATGTGACAATAAAGAAAAAGTCCTTACAGGAGTGAAATACAG CATCCTGAAAAATATTGGTTTCTACCCTACGAGGCAGTTAGAAAACGTTACATTTTAAAC AAATCTGTACAAACCACAAGAAATTTGCTTATGGGACCATCTTGCTGATAAGAATTTCT AGAAATGTAGAATAACCATGAACAAATTAATACTAGTATCTATGTGTTCTACAGCCCT AGAACCAATAAACTGATTTAAAACTCAATTATGTCCAACATGGATCACTTTTACATCT TGATTGTTAATGACTGTCTGCTTTTTAATCTATGATGTACAGTCAACTGCACCTTCT AGGACATTTAAAAAATAACAATATCCAATTAGAAAAGCCATTTTTAAACATTTGTACA AGAATAAGCTGCTGAAACTTAGTAATTGAAATATGACATCTGTACAACAATTTACATAG AGCTAGAAGGGATTTATCATTATCCTGCATAGAACTGGTCTGCATTTGGGTACTCACTGT CACCTGTTTGATGAAAAAGGCCTGGTACAAGAAAAATACCTGTTATCATTCTAACGTGT TGAAACACTGCATATATAATTAGTGAN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_012290
Insert Size:	4130 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_012290.3](#), [NP_036422.3](#)

RefSeq Size: 4071 bp

RefSeq ORF: 2301 bp

Locus ID: 9874

UniProt ID: [Q9UKI8](#)

Cytogenetics: 2q31.1

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene is a serine/threonine kinase that may be involved in the regulation of chromatin assembly. The encoded protein is only active when it is phosphorylated, and this phosphorylation is cell cycle-dependent, with the maximal activity of this protein coming during S phase. The catalytic activity of this protein is diminished by DNA damage and by blockage of DNA replication. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).