

Product datasheet for **SC325302**

TLK1 (NM_001136554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLK1 (NM_001136554) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLK1
Synonyms:	PKU-beta
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001136554, the custom clone sequence may differ by one or more nucleotides

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ATGGATGAGCTTCATAGTCTGGATCCAAGAAGGCAAGAGTTATTGGAAGCTAGATTTACT
GGAGTTGCAAGTGGGAGCACTGGAAGTACGGGCAGTTGCAGTGTGGAGCTAAAGCCTCA
ACAAATAACGAAAGCTCTAATCACAGTTTTGGAAGCTTGGGATCTTTAAGTGACAAAGAA
TCAGAGACACCGGAGAAGAAACAATCGGAATCATCCAGGGGAAGAAAGAGAAAAGCAGAA
AACCGAATGAAAGTAGTCAGGGAAAAAGTATTGGGGACGTGGCCACAAAATTAGCGAC
TATTTTGAATACCAGGGTGAAATGGCTCAAGTCCAGTAAGAGGCATACCTCCTGCAATC
CGTTCTCCTCAAAATTCACATTCACATTCACACTCCTTCTCATCTGTTTCGACCGAATAGC
CCTTCTCCTACTGCATTAGCATTGGGGACCACCTATTGTACAACCAAAGCAATTATCC
TTTAAATTTATTCAGACTGATCTCACAATGCTGAAATTAGCAGCATTAGAAAAGTAATAAA
ATCCAGGACCTGGAAAAGAAGGAGGGACGTATAGATGATTTGCTCAGGGCTAACTGTGAT
CTCAGACGGCAATAGATGAACAACAAAATTACTTGAAAATACAAAGAACGATTAAT
AAGTGCATATCAATGAGCAAGAACTTCTTATTGAAAAGAGTACACAAGAAAAGCTGTCA
AGCAGAGAGAAGAGTATGCAAGATCGATTACGCCTCGGGCACTTTACAACAGTTAGACAT
GGCGCTTCATTTACTGAACAATGGACAGATGGTTTTGCATTTCAGAATCTTGTGAAGCAA
CAAGAATGGGTGAATCAGCAAAGGGAAGATATTGAAAGGCAAAGGAACTTCTAGCCAAA
CGCAAACCTCCCACAGCTAATAATTCTCAGGCACCCTCTACCAATTCTGAACCAAAAACA
AGGAAAAACAAAGCAGTCAATGGAGCAGAGAATGATCCCTTTGTTAGACCAAAATTTACCA
CAACTGTTGACTTTGGCAGAATATCATGAACAGGAAGAAATTTTCAAAGTTAGACTAGGA
CATCTCAAAAAGGAGAGGCAGAAATCCAGGCAGAACTTGAACTTTGAAAAGAGTCAGA
AATCTTACATACGTGAGCTGAAAAGAATAACAATGAAGATAATTCACAGTTCAAAGAT
CACCAACATTAATGAAAGATATTTACTTTCATCTGCTTGGTAGAGGTGGCTTTAGT
GAAGTGATAAAGCTTTTGACCTTTATGAACAAAGATATGCTGCTGTGAAGATACATCAG
CTTAATAAAAAGCTGGAGAGATGAGAAGAAAAGAACTACCACAAAACATGCCTGCAGAGAG
TATAGAATACACAAAGAACTGGATCACCCAGAAATAGTTAAACTCTATGATTATTTCTCC
TTGGATACAGATACGTTTTGTACAGTGTAGAATACTGTGAAGGCAATGACTTGGATTTT
TATCTGAAGCAACACAAGTTAATGTCAGAGAAAGAAGCTCGGTCTATTGTAATGCAGATT
GTAATGCACTAAGATATCTCAATGAGATCAAACCCCTATTATACATTATGATCTTAAG
CCAGGAAACATCCTACTGGTAGATGGAACAGCATGTGGTAAAATCAAATCACTGATTTT
GGTCTGTCCAAGATTATGGATGATGATAGCTATGGTGTAGATGGAATGGATCTAACTTCC
CAGGGGGCAGGCACTTACTGGTATTTACCTCCTGAGTGTGGTGGTGGAAAAGAGCCA
CCAAAGATTTCCAACAAGGTTGATGTATGGTCGGTTGGAGTCATCTTCTTTCAGTGTCTT
TATGGTAGAAAAGCCATTTGGTCACAATCAATCTCAACAAGACATTCTTCAAGAAAATACA
ATATTAAGCCACAGAAGTCCAGTTCCCTGTAAAACCGTTGTAAGCAGTGAAGCCAAG
GCATTTATAAGACGCTGTTTGGCATATCGAAAAGAAGATCGATTTGATGTGCACCAGCTG
GCAATGACCCATACCTTCTCCACACATGAGAAGATCAAATCTTTCAGGAAACCTACAC
ATGGCTGGGCTGACAGCATCCCCACACCCCTTCTTCAAGCATAATTACTTAC

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Restriction Sites: Please inquire

ACCN: NM_001136554

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001136554.1, NP_001130026.1</u>
RefSeq Size:	5310 bp
RefSeq ORF:	2157 bp
Locus ID:	9874
UniProt ID:	<u>Q9UKI8</u>
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region, and uses a downstream start codon, compared to variant 1, resulting in a shorter protein (isoform 2).</p>