

Product datasheet for **SC115810**

TLK2 (NM_006852) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLK2 (NM_006852) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLK2
Synonyms:	HsHPK; MRD57; PKU-ALPHA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_006852 edited
ATGATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGGTTT
ACTGGAGTAGGTGTTAGTAAGGGACCACTTAATAGTGAGTCTTCCAACCAGAGCTTGTGC
AGCGTCGGATCCTTGAGTGATAAAGAAGTAGAGACTCCCGAGAAAAAGCAGAATGACCAG
CGAAATCGGAAAAAGAAAGCTGAACCATATGAACTAGCCAAGGGAAAGGCACTCCTAGG
GGACATAAAATAGTGATTACTTTGAGTTTGTCTGGGGAAAGCGGCCAGGAACCAGCCCT
GGCAGAAGTGTTCCACCAGTTGCACGATCCTCACCGCAACATTCCTTATCCAATCCCTTA
CCGCGACGAGTAGAACAGCCCCTCTATGGTTTAGATGGCAGTGCTGCAAAGGAGGCAACG
GAGGAGCAGTCTGCTCTGCCAACCTCATGTCAAGTATGCTAGCAAAAACCTCGGCTTGAC
ACAGAGCAGCTGGCGCAAAGGGGAGCTGGCCTCTGCTTCACTTTTGTTCAGCTCAGCAA
AACAGTCCCTCATCTACGGGATCTGGCAACACAGAGCATTCTGCAGCTCCCAAAAACAG
ATCTCCATCCAGCACAGACAGACCCAGTCCGACCTCACAATAGAAAAATATCTGCACTA
GAAAACAGTAAGAATTCTGACTTAGAGAAGAAGGAGGGAAGAATAGATGATTTATTAAGA
GCCAAGTGTGATTTGAGACGGCAGATTGATGAACAGCAAAAAGATGCTAGAGAAATACAAG
GAACGATTAATAGATGTGTGACAATGAGCAAGAACTCCTTATAGAAAAGTCAAAAACA
GAGAAGATGGCGTGTAGAGATAAGAGCATGCAAGACCGCTTGAGACTGGGCCACTTFACT
ACTGTCCGACACGGAGCCTCATTACTGAACAGTGGACAGATGGTTATGCTTTTCAGAAT
CTTATCAAGCAACAGGAAAGGATAAATTCACAGAGGGAAGAGATAGAAAGACAACGGAAA
ATGTTAGCAAAGCGGAAACCTCTGCCATGGGTGAGGCCCTCTGCAACCAATGAGCAG
AAACAGCGGAAAAGCAAGACCAATGGAGCTGAAAATGAAACGTTAACGTTAGCAGAATAC
CATGAACAAGAAGAAATCTTCAAACCTCAGATTAGGTGATCTTAAAAAGGAGGAAGCAGAG
ATCCAGGCAGAGCTGGAGAGACTAGAAAAGGTTAGAAAATCTACATATCAGGGAACAAAA
AGGATACATAATGAAGATAATTCACAATTTAAAGATCATCCAACGCTAAATGACAGATAT
TTGTTGTTACATCTTTTGGGTAGAGGAGGTTTCAGTGAAGTTTACAAGGCATTTGATCTA
ACAGAGCAAAGATACGTAGCTGTGAAAATTCACCAAGTTAAATAAAAACTGGAGAGATGAG
AAAAAGGAGAATTACCACAAGCATGCATGTAGGGAATACCGGATTCATAAAGAGCTGGAT
CATCCCAGAATAGTTAAGCTGTATGATTACTTTTCACTGGATACTGACTCGTTTTGTACA
GTATTAGAATACTGTGAGGGAAATGATCTGGACTTCTACCTGAAACAGCACAAATTAATG
TCGGAGAAAGAGGCCCGTCCATTATCATGCAGATTGTGAATGCTTTAAAGTACTTAAAT
GAAATAAAACCTCCCATCATACTATGACCTCAAACCAGGTAATATTCTTTTAGTAAAT
GGTACAGCGTGTGGAGAGATAAAAATTACAGATTTTGGTCTTTTGAAGATCATGGATGAT
GATAGCTACAATTCAGTGGATGGCATGGAGCTAACATCACAAGGTGCTGGTACTTATTGG
TATTTACCACCAGAGTGTGTTTGGTGGGAAAGAACCACCAAAGATCTCAAATAAAGTT
GATGTGTGGTCCGGTGGTGTGATCTTCTATCAGTGTCTTTATGGAAGGAAGCCTTTTGGC
CATAACAGTCTCAGCAAGACATCCTACAAGAGAATACGATTCTTAAAGTACTGAAGTG
CAGTTCGCCCAAAGCCAGTAGTAACACCTGAAGCAAAGGCGTTTATTTCGACGATGCTTG
GCCTACCGAAAGGAGGACCGCATTGATGTCCAGCAGCTGGCCTGTGATCCCTACTTGTG
CCTCACATCCGAAAGTCAGTCTCTACAAGTAGCCCTGCTGGAGCTGCTATTGCATCAACC
TCTGGGGCGTCCAATAACAGTTCTTCTAATTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006852 unedited
CACATTTTGTATACGACTCATATAGGCGCCGCGAATTCGGCACGAGGCGGCAGCAGAAT
GATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGGTTTAC
TGGAGTAGGTGTTAGTAAGGGACCCTTAATAGTGAGTCTTCCAACCAGAGCTTGTGCAG
CGTCGGATCCTTGAGTGATAAAGAAGTAGAGACTCCCAGAAAAAGCAGAATGACCAGCG
AAATCGAAAAAGAAAAGCTGAACCATATGAACTAGCCAAGGAAAGGCACTCCTAGGGG
ACATAAAATTAGTGATTACTTTGAGTTTGTCTGGGGGAAGCGGCCAGGAACCAGCCCTGG
CAGAAAGTGTCCACCAGTTGCACGATCCTCACCGCAACATTCTTATCCAATCCCTTACC
GCGACGAGTAGAACAGCCCTCTATGGTTAGATGGCAGTGCTGCAAAGGAGGCAACGGA
GGAGCAGTCTGCTCTGCCAACCCCTCATGTGAGTGTGCTAGCAAAACCTCGGCTTGACAC
AGAGCAGTGGCGCAAAGGGGAGCTGGCCTCTGCTTCACTTTTGTTCAGCTCAGCAAAA
CAGTCCCTCATCTACGGGATCTGGCAACACAGAGCATTCTGCAGCTCCCAAAAACAGAT
CTCCATCCAGCACAGACAGCCAGTCCGACCTCACAATAGAAAAAATATCTGCACTAGA
AAACAGTAAGAATTCTGACTTAGAGAAGAAGGAGGAAGAATAGATGATNTATTAAGAGC
CAACTGTGATTTGAGACGGCAGATTGATGAACAGCANAAGATGCTAGAGAAATACAGGNA
ACGNATAAATAGATGTGTGACAAATGAGCAGAACTCCTTATAGAAAAGTCAAAAACAAGA
GAAAGAGGNCGTGTAGAGAATAGAAGCATGCAAACCGCTTGAGACTGGGCCACTTTACTA
CTGTCCGACACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006852 unedited
CGCGGCCGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTGCATGGACAGATGAACCTT
TATTTAAAAAAAAGCACTTCAAATAAATTAAGGGACAACCGTCAAGTGTCAAATTGT
GAAGAAATAGTTGAAAACCTAGAGAGACTCCAAGCTGCAGTCTTCTAACCTCATTCTTTG
TCCAATGGCAAAAACCCACACATCTCAGTACTCCCACTCAATTTTTTCCCTACTGAGATG
AGGGAAGCAATTGCAAACAGGAGACCAGACGGAGGAGAAAAGCTGCATCTGATTGGAATGA
ACATTGCCACGTACTTGCTAATACGGGTTTCACTTTATGACCAAAATGTATTCTTTCAAAA
ATAAAAAAGGGGAGAGGGGAGCTGCATGTTTTTAAAAATTGAAATATTTAGGGATAAAA
CACTAACTCTAGTGCCTTTAACGGGCAATAGCACTTTTTTCTCCGAAGTCAAACACCA
TCCCCAGCTGAGCCTTTGTGCTACAAGCTTTTCAGGAGATGTTACCTAACTTTATTA
AGAAAAGAACAAAGTTTAAATATAGACACTGGACTAGCCAGTCTGTATTTTCAAGTCCAC
ATTCTTCATCTGAAGCACTGCATCAGGGACCCCTGAGTCTGCAAGTTTTCAAGTTCAC
AGTACATGGAACCAAGTTTTTCTTTTAAATTTTTTCTCACTCAGAGCAGCCACACACAGT
GGCCGTTGACGCTGGAACCTCGGGCGGGCCTTTTCTACATGGCCTGCNCGGAGCTGCC
CAAGGTTNCTCCTCAATGAGAATCGATGCTGCTATGCTATGGATGGGNAAAAGCAGA
TATAAAGCACCTGTACAGGTTTCANACCATTCCGGGATCGCTATGTTCAAACCGCTGCT
GAACGCATTTGNCACTTTGTGTGTTGAACAGTTGTGGCCTGAAGTAGNCTCATANAAGA
ACGTAATG

Restriction Sites:

NotI-NotI

ACCN:

NM_006852

Insert Size:

3270 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:	<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_006852.2 , NP_006843.2
RefSeq Size:	3616 bp
RefSeq ORF:	2253 bp
Locus ID:	11011
UniProt ID:	Q86UE8
Cytogenetics:	17q23.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene encodes a nuclear serine/threonine kinase that was first identified in Arabidopsis. The encoded protein is thought to function in the regulation of chromatin assembly in the S phase of the cell cycle by regulating the levels of a histone H3/H4 chaperone. This protein is associated with double-strand break repair of DNA damage caused by radiation. Pseudogenes of this gene are present on chromosomes 10 and 17. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (A) lacks an alternate in-frame exon in the 3' coding region compared to variant C. The encoded protein (isoform A) is shorter than isoform C.</p>