

Product datasheet for **SC337294**

TLK2 (NM_001284363) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLK2 (NM_001284363) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLK2
Synonyms:	HsHPK; MRD57; PKU-ALPHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001284363, the custom clone sequence may differ by one or more nucleotides

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ATGATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGGTTTACTGGAGTAG
GTGTTAGTAAGGGACCACTTAATAGTGAGTCTTCCAACCAGAGCTTGTGCAGCGTCGGATCCTTGAGTGA
TAAAGAAGTAGAGACTCCCGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGAAAAGCTGAACCATAT
GAAACTAGCCAAGGAAAAGGCACTCCTAGGGGACATAAAATTAGTGATTACTTTGAGCGACGAGTAGAAC
AGCCCCTCTATGGTTTAGATGGCAGTGCTGCAAAGGAGGCAACGAGGAGCAGTCTGCTCTGCCAACCTT
CATGTGTCAGTGTGCTAGCAAAACCTCGGCTTGACACAGAGCAGCTGGCGCAAAGGGGAGCTGGCCTCTGC
TTCACCTTTGTTTCAGCTCAGCAAAACAGTCCCTCATCTACGGGATCTGGCAACACAGAGCATTCTGCA
GCTCCCAAAAACAGATCTCCATCCAGCAGACAGACCCAGTCCGACCTCACAATAGAAAAAATATCTGC
ACTAGAAAACAGTAAGAATTCTGACTTAGAGAAGAAGGAGGAAGAATAGATGATTTATTAAGAGCCAAC
TGTGATTTGAGACGGCAGATTGATGAACAGCAAAAGATGCTAGAGAAATACAAGGAACGATTAATAGAT
GTGTGACAATGAGCAAGAACTCCTTATAGAAAAGTCAAAAACAAGAGAAGATGGCGTGTAGAGATAAGAG
CATGCAAGACCGCTTGAGACTGGGCCACTTTACTACTGTCCGACACGGAGCCTCATTACTGAACAGTGG
ACAGATGGTTATGCTTTTCAGAATCTTATCAAGCAACAGGAAAAGGATAAAATTCACAGAGGGAAGAGATAG
AAAGACAACGGAAAATGTTAGCAAAGCGGAAAACCTCCTGCCATGGGTGAGCCCTCCTGCAACCAATGA
GCAGAAAACAGCGGAAAAGCAAGACCAATGGAGCTGAAAATGAAACGTTAACGTTAGCAGAATACCATGAA
CAAGAAGAAAATCTTCAAACCTCAGATTAGGTCATCTTAAAAAGGAGGAAGCAGAGATCCAGGCAGAGCTGG
AGAGACTAGAAAAGGTTAGAAAATCTACATATCAGGGAACATAAAAGGATACATAATGAAGATAATTCACA
ATTTAAAGATCATCCAACGCTAAATGACAGATATTTGTTGTTACATCTTTGGGTAGAGGAGGTTTCAGT
GAAGTTTACAAGGCATTTGATCTAACAGAGCAAAGATACGTAGCTGTGAAAATTCACCAGTTAAATAAAA
ACTGGAGAGATGAGAAAAGGAGAATTACCACAAGCATGCATGTAGGGAATACCGGATTCATAAAGAGCT
GGATCATCCCAGAATAGTTAAGCTGTATGATTACTTTTCACTGGATACTGACTCGTTTTGTACAGTATTA
GAATACTGTGAGGAAAATGATCTGGACTTCTACCTGAAACAGCACAAAATTAATGTCGGAGAAAAGAGGCC
GGTCCATTATCATGCAGATTGTGAATGCTTTAAAGTACTTAAATGAAAATAAAACCTCCCATCATACTACTA
TGACCTCAAACAGGTAATTTCTTTTAGTAAATGGTACAGCGTGTGGAGAGATAAAAATTACAGATTTT
GGTCTTTGCAAGATCATGGATGATGATAGCTACAATTCAGTGGATGGCATGGAGTAACATCACAAGGTG
CTGGTACTTATTGGTATTTACCACCAGAGTGTTTTGTGGTTGGGAAAAGAACCCAAAGATCTCAAATAA
AGTTGATGTGTGGTGGTGGGTGTGATCTTCTATCAGTGTCTTTATGGAAGGAAGCCTTTTGGCCATAAC
CAGTCTCAGCAAGACATCCTACAAGAGAATACGATTTCTTAAAGCTACTGAAGTGCAGTCCCGCCAAAGC
CAGTAGTAAACACCTGAAGCAAAGGCGTTTATTCGACGATGCTTGGCCTACCGAAAAGGAGGACCGCATTGA
TGTCCAGCAGCTGGCCTGTGATCCCTACTTGTTCCTCACATCCGAAAAGTCAGTCTCTACAAGTAGCCCT
GCTGGAGCTGCTATTGCATCAACCTCTGGGGCTCCAATAACAGTTCTTCTAATGA
    
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Restriction Sites: Sgfl-MluI

ACCN: NM_001284363

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_001284363.1](#), [NP_001271292.1](#)

RefSeq Size: 5113 bp

RefSeq ORF: 2157 bp

Locus ID: 11011

UniProt ID: [Q86UE8](#)

Cytogenetics: 17q23.2

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]
Transcript Variant: This variant (B) differs in the 5' UTR and lacks two alternate in-frame exons in the coding region compared to variant C. The encoded protein (isoform B) is shorter than isoform C. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.