

## Product datasheet for **SC337430**

### TLK2 (NM\_001284333) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TLK2 (NM_001284333) 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\_001284333, the custom clone sequence may differ by one or more nucleotides

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ATGATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGGTTTACTGGAGTAG
GTGTTAGTAAGGGACCACTTAATAGTGAGTCTTCCAACCAGAGCTTGTGCAGCGTCGGATCCTTGAGTGA
TAAAGAAGTAGAGACTCCCGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAGAAAAGCTGAACCATAT
GAAACTAGCCAAGGGAAAAGGCACCTCCTAGGGGACATAAAATTAGTGATTACTTTGAGTTTGTCTGGGGAA
GCGCGCCAGGAACCAGCCCTGGCAGAAGTGTCCACCAGTTGCACGATCCTCACCGAACATTCTTATC
CAATCCCTTACCAGCAGAGTAGAACAGCCCTCTATGGTTTAGATGGCAGTGTGCAAAGGAGGCAACG
GAGGAGCAGTCTGCTCTGCCAACCTCATGTGAGTGTAGTGTAGCAAAACCTCGGCTTGACACAGAGCAGC
TGGCGCAAAGGGAGCTGGCCTCTGCTTCACTTTTGTTCAGCTCAGCAAAACAGTCCCTCATCTACGGG
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GACCTCACAATAGAAAAATATCTGCACTAGAAAAACAGTAAAGTCTGACTTAGAGAAGAAGGAGGGAA
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GAGAAGATGGCGTGTAGAGATAAGAGCATGCAAGACCGCTTGAGACTGGGCCACTTTACTACTGTCCGAC
ACGGAGCCTCATTTACTGAACAGTGGACAGATGGTTATGCTTTTTCAGAATCTTATCAAGCAACAGGAAAAG
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CGCCCTCTTCTGGGAATACAGAGCTAAAGGATACAGCCCCAGCCTTAGGAGCCCACAGTTTACTTAGGTT
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GCAGAGATCCAGGCAGAGCTGGAGAGACTAGAAAAGGTTAGAAAATCTACATATCAGGGAACAAAAAGGA
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TGACTCGTTTTGTACAGTATTAGAATACTGTGAGGAAAATGATCTGGACTTCTACCTGAAACAGCACAAA
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AGAGATAAAAATTACAGATTTTGGTCTTTCGAAGATCATGGATGATGATAGCTACAATTCAGTGGATGGC
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AACCACCAAAGATCTCAAATAAAGTTGATGTGTGGTGGTGGTGTGATCTTCTATCAGTGTCTTTATGG
AAGGAAGCCTTTTGGCCATAACCAGTCTCAGCAAGACATCCTACAAGAGAATACGATTCTTAAAGCTACT
GAAGTGCAGTTCCTCGCAAAGCCAGTAGTAACACCTGAAGCAAAGGCGTTTATTCGACGATGCTTGGCCT
ACCGAAAGGAGGACCGCATTGATGTCCAGCAGCTGGCCTGTGATCCCTACTTGTGCTCACATCCGAAA
GTCAGTCTACAAGTAGCCCTGCTGGAGCTGCTATTGCATCAACCTCTGGGGCGTCCAATAACAGTTCT
TCTAATGA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001284333

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001284333.1, NP_001271262.1</u>
<b>RefSeq Size:</b>	5518 bp
<b>RefSeq ORF:</b>	2319 bp
<b>Locus ID:</b>	11011
<b>UniProt ID:</b>	<u>Q86UE8</u>
<b>Cytogenetics:</b>	17q23.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<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 (C) represents the longest transcript and encodes the longest 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.</p>