

## Product datasheet for **SC318973**

### TLK2 (NM\_001112707) Human Untagged Clone

#### Product data:

|               |  |
|---------------|--|
| Product Type: | Expression Plasmids                      |
| Product Name: | TLK2 (NM_001112707) Human Untagged Clone |
| Tag:          | Tag Free                                 |
| Symbol:       | TLK2                                     |
| Synonyms:     | HsHPK; PKU-ALPHA                         |
| Vector:       | <u>pCMV6 series</u>                      |



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001112707, the custom clone sequence may differ by one or more nucleotides

```

ATGATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGGTTT
ACTGGAGTAGGTGTTAGTAAGGGACCCTTAATAGTGAGTCTTCCAACCAGAGCTTGTGC
AGCGTCGGATCCTTGAGTGATAAAGAAGTAGAGACTCCCGAGAAAAAGCAGAATGACCAG
CGAAATCGGAAAAAGAAAGCTGAACCATATGAACTAGCCAAGGGAAAGGCACTCCTAGG
GGACATAAAATTAGTGATTACTTTGAGCGACGAGTAGAACAGCCCCTCTATGGTTTAGAT
GGCAGTGTCTGCAAAGGAGGCAACGGAGGAGCAGTCTGCTCTGCCAACCCCTCATGTCAATG
ATGCTAGCAAAACCTCGGCTTGACACAGAGCAGCTGGCGCAAAGGGGAGCTGGCCTCTGC
TTCACTTTTGTTTCAGCTCAGCAAAACAGTCCCTCATCTACGGGATCTGGCAACACAGAG
CATTCTGCAGCTCCCAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCCGACCTC
ACAATAGAAAAATATCTGCACTAGAAAACAGTAAGAATTCTGACTTAGAGAAGAAGGAG
GGAAGAATAGATGATTTATTAAGAGCCAAGTGTGATTTGAGACGGCAGATTGATGAACAG
CAAAAGATGCTAGAGAAATACAAGGAACGATTAATAGATGTGTGACAATGAGCAAGAAA
CTCCTTATAGAAAAGTCAAAACAAGAGAAGATGGCGTGTAGAGATAAGAGCATGCAAGAC
CGCTTGAGACTGGCCACTTTACTACTGTCCGACACGGAGCCCTATTTACTGAACAGTGG
ACAGATGGTTATGCTTTTCAGAATCTTATCAAGCAACAGGAAAGGATAAAATTCACAGAGG
GAAGAGATAGAAAAGACAACGGAAAATGTTAGCAAAGCGGAAAACCTCCTGCCATGGGTCAG
GCCCTCCTGCAACCAATGAGCAGAAAACAGCGGAAAAGCAAGACCAATGGAGCTGAAAAT
GAAACGTTAACGTTAGCAGAATACCATGAACAAGAAGAAATCTTCAAACCTCAGATTAGGT
CATCTTAAAAAGGAGGAAGCAGAGATCCAGGCAGAGCTGGAGAGACTAGAAAAGGTTAGA
AATCTACATATCAGGGAAGTAAAAAGGATACATAATGAAGATAATTCACAATTTAAAGAT
CATCCAACGCTAAATGACAGATATTTGTTGTTACATCTTTTGGGTAGAGGAGGTTTCAGT
GAAGTTTACAAGGCATTTGATCTAACAGAGCAAAGATACGTAGCTGTGAAAATTCACCAG
TTAAATAAAAACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCATGTAGGGAA
TACCGGATTCATAAAGAGCTGGATCATCCAGAATAGTTAAGCTGTATGATTACTTTTCA
CTGGATACTGACTCGTTTTGTACAGTATTAGAATACTGTGAGGGAAATGATCTGGACTTC
TACCTGAAACAGCACAAATTAATGTCCGAGAAAGAGGCCCGTCCATTATCATGCAGATT
GTGAATGCTTTAAAGTACTTAAATGAAATAAAACCTCCCATCATACACTATGACCTCAA
CCAGGTAATATTCTTTTAGTAAATGGTACAGCGTGTGGAGAGATAAAAAATTACAGATTTT
GGTCTTTTGAAGATCATGGATGATAGCTACAATTCAGTGGATGGCATGGAGCTAACA
TACAAGGTGCTGGTACTTATTGGTATTTACCACCAGAGTGTGTTGTGGTTGGGAAAGAA
CCACCAAAGATCTCAAATAAAGTTGATGTGTGGTCCGGTGGGTGTGATCTTCTATCAGTGT
CTTTATGGAAGGAAGCCTTTTGGCCATAACCAGTCTCAGCAAGACATCCTACAAGAGAAT
ACGATTCTTAAAGCTACTGAAGTGCAGTTCCCGCCAAAGCCAGTAGTAACACCTGAAGCA
AAGGCGTTTATTCGACGATGCTTGGCCTACCGAAAAGGAGGCCGATTGATGTCCAGCAG
CTGGCCTGTGATCCCTACTTGTGCTCACATCCGAAAGTCAGTCTCTACAAGTAGCCCT
GCTGGAGCTGCTATTGCATCAACCTCTGGGGCGTCCAATAACAGTTCTTCTAAT

```

- Restriction Sites:** Please inquire
- ACCN:** NM\_001112707
- 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.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | 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_001112707.1, NP_001106178.1</u>   |
| <b>RefSeq Size:</b>           | 5359 bp   |
| <b>RefSeq ORF:</b>            | 2157 bp   |
| <b>Locus ID:</b>              | 11011   |
| <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 (B) lacks two alternate in-frame exons in the coding region compared to variant C. The encoded protein (isoform B) is shorter than isoform C.</p> |