

## Product datasheet for **RC239400**

### TLK2 (NM\_001284363) Human Tagged ORF Clone

#### Product data:

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



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ORF Nucleotide  
Sequence:

>RC239400 representing NM\_001284363  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGATGGAAGAATTGCATAGCCTGGACCCACGACGGCAGGAATTATTGGAGGCCAGTTTACTGGAGTAG  
GTGTTAGTAAGGGACCACTTAATAGTGAGTCTTCCAACCAGAGCTTGTGCAGCGTCGGATCCTTGAGTGA  
TAAAGAAGTAGAGACTCCCGAGAAAAAGCAGAATGACCAGCGAAATCGGAAAAAGAAAGCTGAACCATAT  
GAACTAGCCAAGGGAAAGGCACTCCTAGGGGACATAAAATTAGTGATTACTTTGAGCGACGAGTAGAAC  
AGCCCCTCTATGGTTTAGATGGCAGTGTGCAAAGGAGGCAACGGAGGAGCAGTCTGCTCTGCCAACCT  
CATGTCAGTGATGCTAGCAAAACCTCGGCTTGACACAGAGCAGCTGGCGCAAAGGGGAGCTGGCCTCTGC  
TTCACTTTTGTTCAGCTCAGCAAAACAGTCCCTCATCTACGGGATCTGGCAACACAGAGCATTCTGCA  
GCTCCCAAAAACAGATCTCCATCCAGCACAGACAGACCCAGTCCGACCTCACAATAGAAAAAATATCTGC  
ACTAGAAAACAGTAAGAATTCTGACTTAGAGAAGAAGGAGGAAGAATAGATGATTTATTAAGAGCCAAC  
TGTGATTTGAGACGGCAGATTGATGAACAGCAAAGATGCTAGAGAAATACAAGGAACGATTAATAGAT  
GTGTGACAATGAGCAAGAACTCCTTATAGAAAAGTCAAAAACAAGAGAAGATGGCGTGTAGAGATAAGAG  
CATGCAAGACCGCTTGAGACTGGGCCACTTTACTACTGTCCGACACGGAGCCTCATTACTGAACAGTGG  
ACAGATGGTTATGCTTTTCAGAACTTATCAAGCAACAGGAAAGGATAAAATTCACAGAGGGAAAGAGATAG  
AAAGACAACGGAAAAATGTTAGCAAAGCGGAAACCTCCTGCCATGGGTGAGGCCCTCCTGCAACCAATGA  
GCAGAAACAGCGGAAAAGCAAGACCAATGGAGCTGAAAATGAAACGTTAACGTTAGCAGAATACCATGAA  
CAAGAAGAAATCTTCAAACCTCAGATTAGTTCATCTTAAAAAGGAGGAAGCAGAGATCCAGGCAGAGCTGG  
AGAGACTAGAAAAGGTTAGAAATCTACATATCAGGGAACATAAAAGGATACATAATGAAGATAATTCACA  
ATTTAAAGATCATCCAACGCTAAATGACAGATATTTGTTGTACATCTTTTGGGTAGAGGAGGTTTCAGT  
GAAGTTTACAAGGCATTTGATCTAACAGAGCAAAGATACGTAGCTGTGAAAATTCACCAGTTAAATAAAA  
ACTGGAGAGATGAGAAAAAGGAGAATTACCACAAGCATGCATGTAGGGAATACCGGATTCATAAAGAGCT  
GGATCATCCAGAATAGTTAAGCTGTATGATTACTTTTCACTGGATACTGACTCGTTTTGTACAGTATTA  
GAATACTGTGAGGAAATGATCTGGACTTCTACCTGAAACAGCACAAATTAATGTCGGAGAAAGAGGCC  
GGTCCATTATCATGCAGATTGTGAATGCTTTAAAGTACTTAAATGAAATAAAACCTCCCATACACTA  
TGACCTCAAACAGGTAATTTCTTTTAGTAAATGGTACAGCGTGTGGAGAGATAAAAAATTACAGATTTT  
GGTCTTTGCAAGATCATGGATGATGATAGCTACAATTCAGTGGATGGCATGGAGCTAACATCACAAGGTG  
CTGGTACTTATTGGTATTTACCACCAGAGTGTTTTGTGGTTGGGAAAGAACCAACCAAGATCTCAATAA  
AGTTGATGTGTGGTGGTGGTGTGATCTTCTATCAGTGTCTTTATGGAAGGAAGCCTTTTGGCCATAAC  
CAGTCTCAGCAAGACATCCTACAAGAGAATACGATTCTTAAAGCTACTGAAGTGCAGTTCGCCCAAAGC  
CAGTAGTAACACCTGAAGCAAAGCGTTTATTCGACGATGCTTGGCCTACCGAAAGGAGGACCGCATTGA  
TGTCCAGCAGCTGGCCTGTGATCCCTACTTGTGCCTCACATCCGAAAGTCAGTCTCTACAAGTAGCCCT  
GCTGGAGCTGCTATTGCATCAACCTCTGGGCGTCCAATAACAGTTCTTCTAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239400 representing NM\_001284363  
 Red=Cloning site Green=Tags(s)

MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQSLCSVGSLSKDKEVETPEKKQNDQRNRKRKAEPY  
 ETSQKGTGPRGHKISDYFERRVEQPLYGLDGSAAKEATEEQSALPTLMSVMLAKPRLDTEQLAQRGAGLC  
 FTFVSAQQNSPSTGSGNTEHSCSSQKQISIQHRQTQSDLTIEKISALENSKNSDLEKKEGRIDLLRAN  
 CDLRRQIDEQQKMLEKYKERLNRCVTMSKLLIEKSKQEKMACRDKSMQDRLRLGHFTTVRHGASFTQW  
 TDGYAFQNLIKQERINSQREEIERQRKMLAKRKPPAMGQAPPATNEQKQRKSKTNGAENETLTLAEYHE  
 QEEIFKLRLGHLKKEEAEIQAELERLERVRNLHIRELKRHNEDNSQFKDHPTLNDRYLLHLLGRGGFS  
 EYVYKAFDLTEQRYVAVKIQHLNKNWRDEKKENYHKHACREYRIHKELDHPRIVKLYDYFSLDTSFCTVL  
 EYCEGNLDFYKQHKLMSEKEARSIIIMQIVNALKYLNEIKPPIIHYDLKPGNILLVNGTACGEIKITDF  
 GLSKIMDDDSYNSVDGMELTSQGAGTYWYLPECFVVGKEPKISNKVDVWSVGVIFYQCLYGRKPFQHN  
 QSQQDILQENTILKATEVQFPKPVVTPEAKAFIRRCLAYRKEDRIDVQQLACDPYLLPHIRKSVSTSSP  
 AGAAIASTSGASNNSSSN

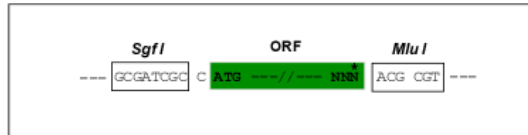
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

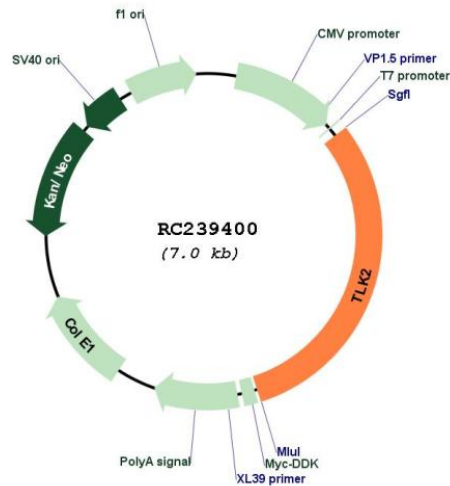
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001284363

ORF Size: 2154 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

<b>Locus ID:</b>	11011
<b>UniProt ID:</b>	<a href="#">Q86UE8</a>
<b>Cytogenetics:</b>	17q23.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	82.8 kDa
<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>